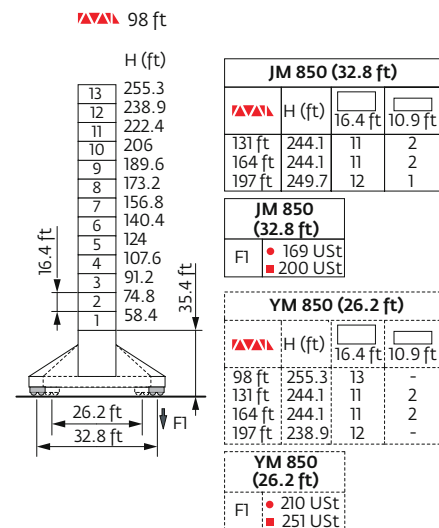
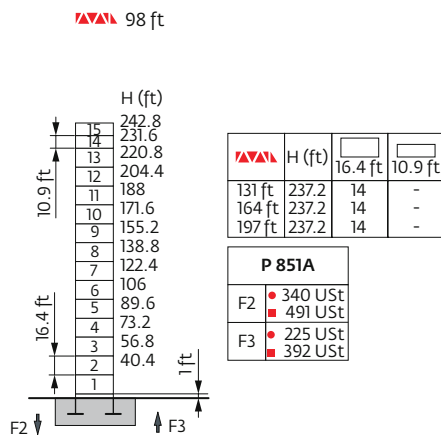
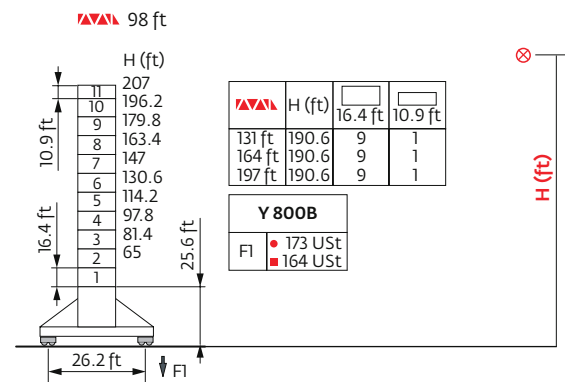
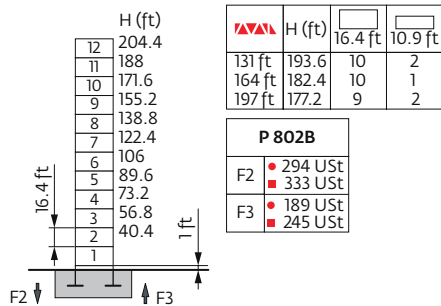


Mast - Reactions

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

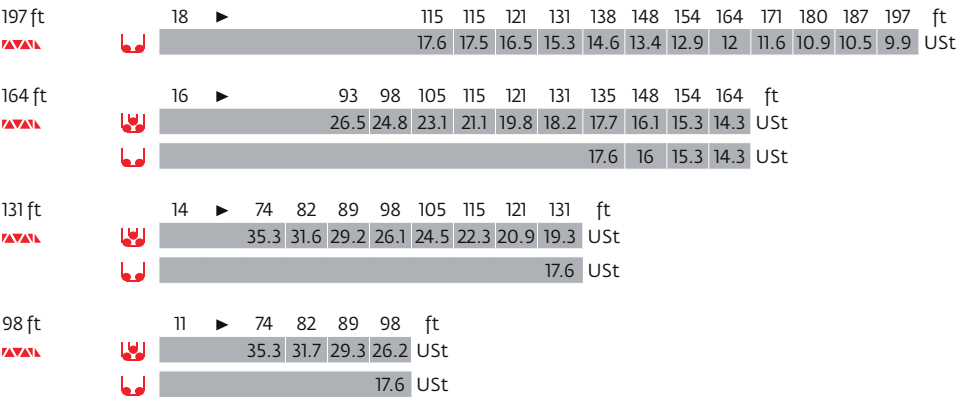
i Motorized accesses of CabLIFT and TCL types: Adapted mast compositions, base ballast and reactions.

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

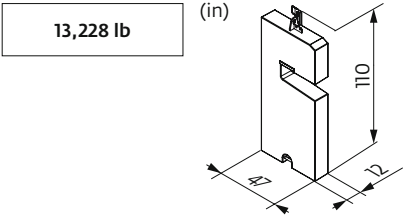


Base ballast

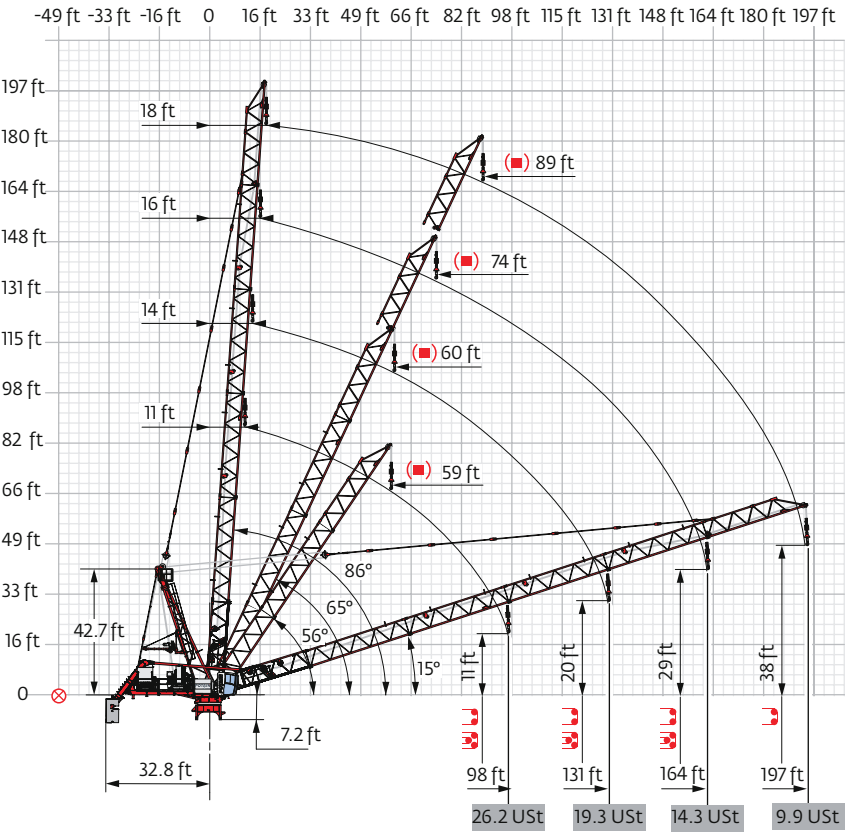
	🚧 8 ft					
	🔴🔴 Y 800B		🔴🔴 YM 850		🔴🔴 JM 850	
🚧	H (ft)	🏠 (USt)	H (ft)	🏠 (USt)	H (ft)	🏠 (USt)
98 ft	207	132.3	255.3	185.2	255.3	92.6
131 ft	190.6	105.8	244.1	198.4	244.1	105.8
164 ft	190.6	105.8	244.1	224.9	244.1	132.3
197 ft	190.6	132.3	238.9	238.1	249.7	158.7

Jib weight & counter-jib ballast

	(lb)		(lb)
	(+/- 5%)	13,228 lb	
98 ft	19,246	8	105,822
131 ft	23,986	9	119,050
164 ft	27,051	10	132,277
197 ft	30,402	10	132,277



Luffing jib

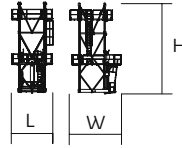
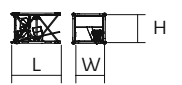
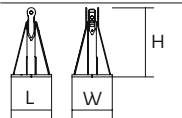
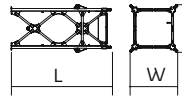
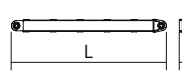
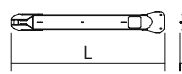
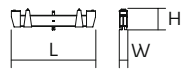
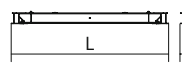
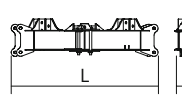
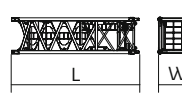
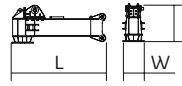
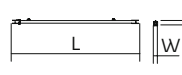
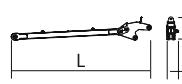


Dimensions and weight

Slewing crane part:  197 ft -  180 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib (+ Grab rail + Platform)		22.6	20.9	7.6	11,541
Strut		8.8	7.6	45.8	19,974
Cab	Ultra View	14.8	6.5	8.4	3,605
Towerhead	8 ft	10.6	11.9	11	26,852
Jib section	①	31.5	7.2	7.5	6,460
Jib section	② ③ ④ ⑤	34.7 34.7 34.7 34.7	6.2 6.2 6.2 6.2	6 6 6 6	4,211 4,299 3,616 3,086
Jib section	⑥	34.1	6.2	6	5,291
Pulley block		4.7	1.7	8.9	3,549
Hoisting winch (+ rope)	180 LVF 320 LVF	16.1 18.4	6.5 7.2	6.3 7.8	23,567 28,318
Luffing winch (+ rope)	150 VVF	16	5.6	7.1	11,133
Rear left derrick arm (+ auxiliary winch + pulley block)		7.8	3.4	4.3	1,356
Front left derrick arm		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		Ø 8 ft	15.2	19	33.6	29,200
K 850/KR 849A KRMT 849A KMT 850.10A KMT 850.9A		Ø 8 ft	17.2 17.2 17.5 17.4	8.3 8.4 8.3 8.3	8.2 8.3 8.2 8.2	12,291 9,017 12,015 10,582
KR 849C KRMT 849C		Ø 8 ft	11.7 11.7	8.4 8.4	8.3 8.3	7,044 7,066
Fixing angles		P 802B 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

Mechanisms

480 V - 60 Hz													hp	kW	
	180 LVF 80 Optima	fpm	135	177	253	315	404	69	89	128	157	203	180	132	3,176 ft
		USt	17.6	13.2	8.8	6.6	4.6	35.3	26.5	17.6	13.2	10.4			
	320 LVF 80 Optima	fpm	246	322	449	640	669	125	161	226	318	335	320	240	3,432 ft
	fpm	17.6	13.2	8.8	5.5	4.5	35.3	26.5	17.6	12.2	10.4				
	150 VVF 71		2 min 05 s										150	110	
	RVF 173 Optima +	rpm	0 → 1										3 x 10	3 x 7.5	
Y 800B 															
YM 850 JM 850 															

 IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	180 LVF + 150 VVF : 293 → 161 kVA 320 LVF + 150 VVF : 405 → 217 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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