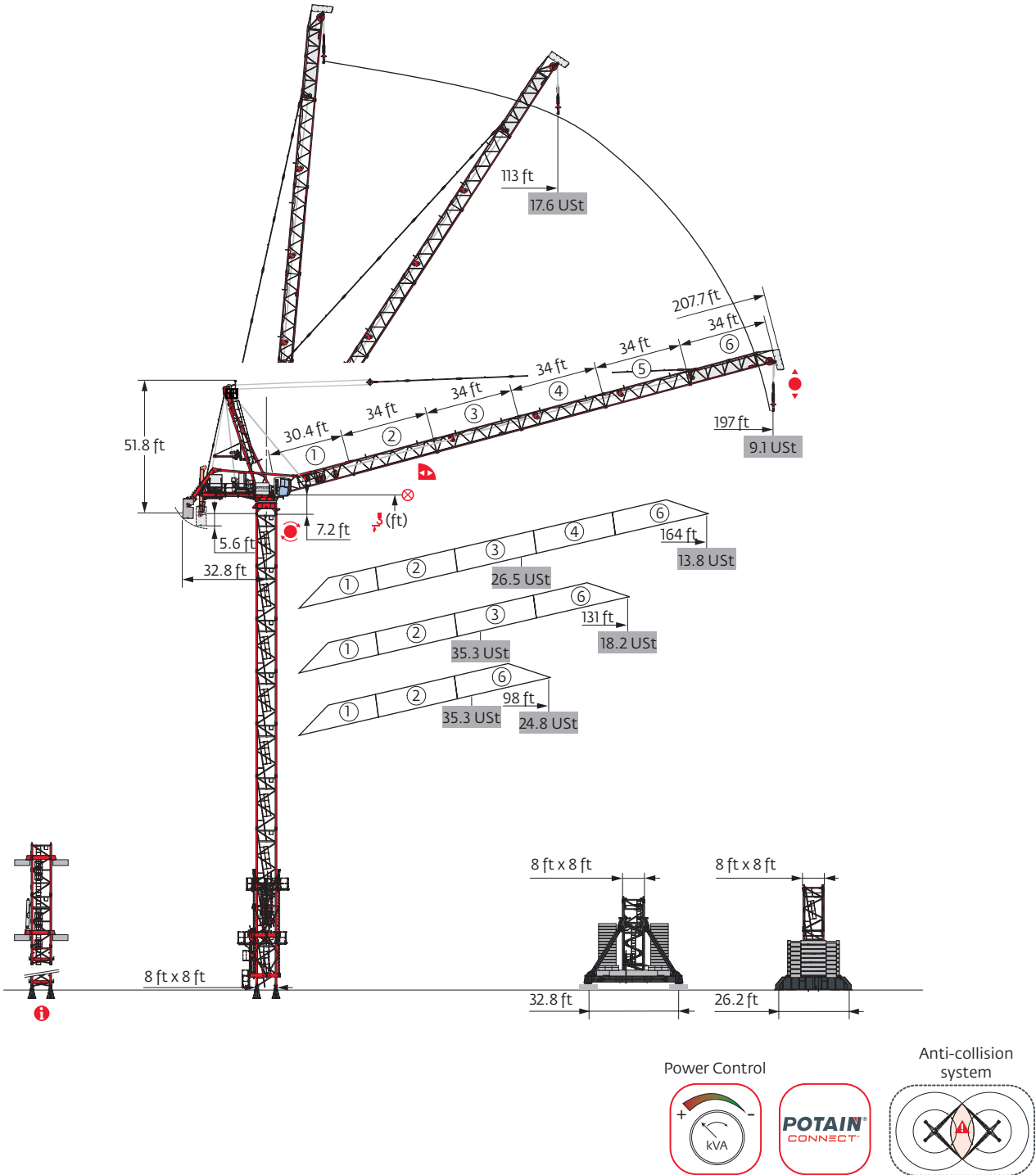



MR 618

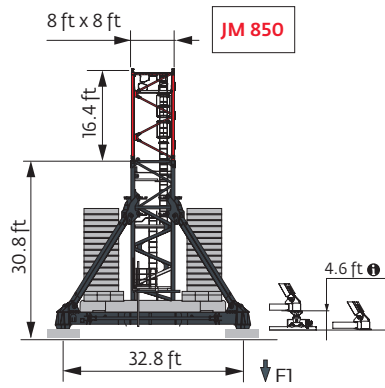
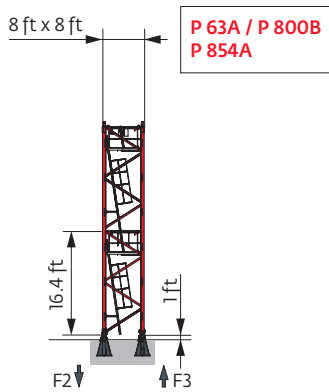


Mast - Reactions


8 ft - P 800B				
Height (ft)	98	131	164	197
Height (ft)	193.6	182.4	171.6	171.6
10.9 ft	2	1	0	0
16.4 ft	10	10	10	10
F2 (Ust)	● 305	318	331	339
	■ 318	340	357	430
F3 (Ust)	● 212	222	233	240
	■ 226	244	259	331

8 ft - P 854A				
Height (ft)	98	131	164	197
Height (ft)	264.4	248	237.2	220.8
10.9 ft	1	1	0	0
16.4 ft	15	14	14	13
F2 (Ust)	● 386	394	408	393
	■ 628	630	649	629
F3 (Ust)	● 272	279	290	282
	■ 514	514	531	518



8 ft - JM 850 - 				
Height (ft)	98	131	164	197
Height (ft)	250.7	245.1	234.3	234.3
10.9 ft	0	1	0	0
16.4 ft	13	12	12	12
F1 (Ust)	● 157	178	176	196
	■ 195	223	225	261





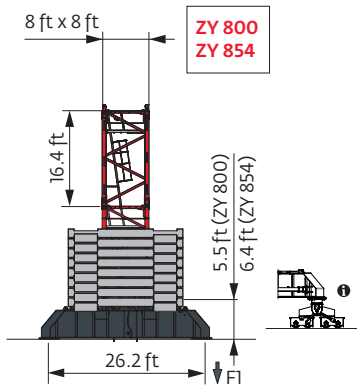
Note: When "ASCE" is noted in this data sheet it is referring to 115 mph Wind Zone, Exposure B, Design Wind Speed = 98 mph. See back cover for design wind speed calculations.

 Other mast compositions - Please consult us.

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

8 ft - ZY 800 - 				
Height (ft)	98	131	164	197
\bar{r}_s (ft)	148.6	115.8	115.8	121.4
	10.9 ft	2	2	1
	16.4 ft	7	5	5
FI (Ust)	● 142	138	149	155
	■ 114	109	111	131



8 ft - ZY 854 - 				
Height (ft)	98	131	164	197
\bar{r}_s (ft)	258.9	242.5	226.1	209.7
	10.9 ft	0	0	0
	16.4 ft	15	14	13
FI (Ust)	● 230	236	233	227
	■ 308	307	305	294







Anchorage




Base ballast


 (USt) / 8 ft - JM 850 - 					
▼▲▲▲ (ft)	98	131	164	197	
250.7	92.6				
245.1	79.4	132.3			
234.3	52.9	92.6	132.3	198.4	
↓ (ft)	217.9	52.9	66.1	92.6	158.7
	201.4	52.9	52.9	66.1	119.1
	185	52.9	52.9	52.9	79.4
	168.6 ↓	52.9	52.9	52.9	52.9
	86.6	52.9	52.9	52.9	52.9

 (USt) / 8 ft - ZY 800 - 					
▼▲▲▲ (ft)	98	131	164	197	
148.6	79.4				
121.4	66.1			79.4	
↓ (ft)	115.8	66.1	66.1	66.1	79.4
	99.4	66.1	66.1	52.9	66.1
	83	52.9	66.1	52.9	52.9





 (USt) / 8 ft - ZY 854 - 					
▼▲▲▲ (ft)	98	131	164	197	
258.9	224.9				
242.5	158.7	224.9			
226.1	119.1	158.7	224.9		
209.7	105.8	119.1	158.7	238.1	
193.2	92.6	92.6	119.1	185.2	
↓ (ft)	176.8	92.6	79.4	92.6	145.5
	160.4	79.4	79.4	79.4	105.8
	144	66.1	66.1	66.1	79.4
	127.6	66.1	52.9	52.9	79.4
	111.2	52.9	52.9	52.9	66.1
	94.8	52.9	52.9	39.7	52.9
	78.4	52.9	52.9	39.7	39.7

Load curves

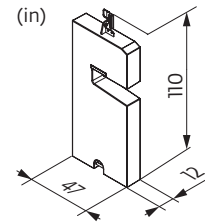
 (ft)		66	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	ft	
▼▲▲▲	17.6 USt																		
197	22 → 113	17.6	17.6	17.6	17.6	17.6	17.3	16.3	14.9	14	12.9	12.2	11.4	10.9	10.1	9.7	9.1	USt	
164	19 → 131	17.6	17.6	17.6	17.6	17.6	17.6	17.6	16.9	15.5	14.8	13.8	USt						
131	16 → 131	17.6	17.6	17.6	17.6	17.6	17.6	17.6	USt										
98	13 → 98	17.6	17.6	17.6	17.6	USt													

 (ft)		66	82	89	98	105	115	121	131	138	148	154	164	ft
▼▲▲▲	35.3 USt													
164	19 → 93	26.5	26.5	26.5	24.7	22.9	20.6	19.4	17.6	16.6	15.3	14.6	13.5	USt
131	16 → 73	35.3	31	28.4	25.4	23.6	21.3	20	18.2	USt				
98	13 → 72	35.3	30.4	27.9	24.8	USt								

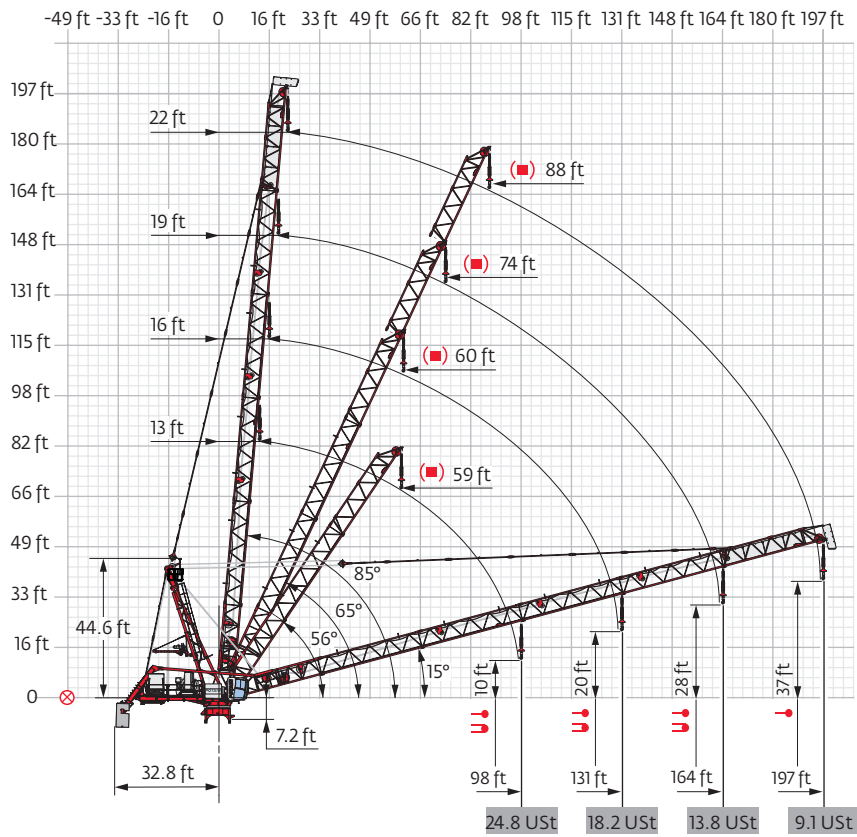
Jib weight & counter-jib ballast

	 (lb) (+/- 5%)	 13,228 lb	 (lb)
197 ft	37,423	10	132,277
164 ft	33,962	10	132,277
131 ft	29,729	9	119,050
98 ft	24,405	8	105,822

13,228 lb




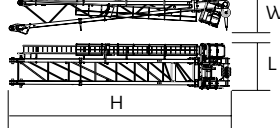

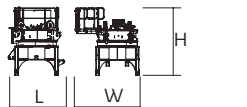
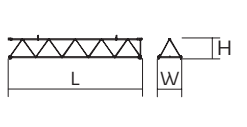
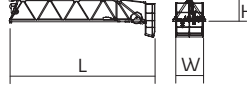
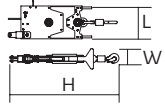
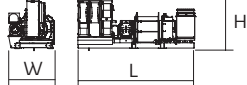
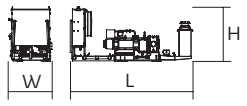

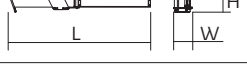

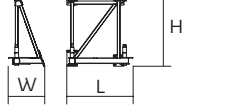
Luffing jib

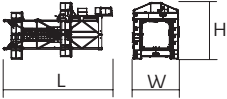

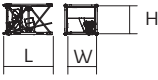
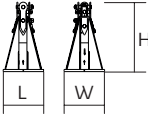
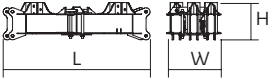
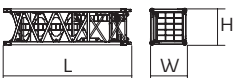
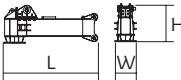
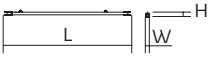

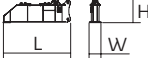



Dimensions and weight

Slewing crane part:  197 ft -  320 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib (+ Grab rail + Platform)		23	20.9	7.6	23,060
Strut		9.4	7.7	45.8	24,791
Cab	 Ultra View	14.8	6.5	8.4	3,781
Towerhead	 8 ft	10.6	11.9	11	26,852
Jib section	 ① ② ③ ④ ⑤	31.5 34.7 34.7 34.7 34.7	6.2 6.2 6.2 6.2 6.2	6 6 6 6 6	8,400 4,343 4,508 4,068 3,340
Jib section	 ⑥	37.2	6.2	9.4	7,408
Pulley block		3.4	2.1	10.8	3,516
Hoisting winch (+ rope)	 320 LVF	18.4	7.2	7.8	30,688
Luffing winch (+ rope)	 150 VVF	16	5.6	7.1	11,574
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 T 851		8 ft	36.7	15.9	19	34,723
K 85/KR 84B2 KRM 849B KM 850.10B KM 850.14B K 85/KR 84A2 KRMT 849A K 849A KR 849A KMT 849A KMT 850.10A KMT 850.14A		8 ft	33.6 33.6 33.9 33.9 17.2 17.2 17.2 17.2 17.2 17.5 17.5	8.3 8.4 8.3 8.3 8.3 8.4 8.3 8.3 8.3 8.3 8.3	8.2 8.3 8.2 8.2 8.2 8.3 8.2 8.2 8.2 8.2 8.2	21,242 17,196 22,201 24,670 12,236 9,017 7,496 9,458 6,945 12,015 13,206
KRMT 849C		8 ft	11.7	8.4	8.3	7,066
Fixing angles		P 63A / P 800B P 854A	2.5 3	2.5 3	4.2 4.9	1,025 2,072
Central cross (transport position)		JM 850	17.1	5.6	4.9	14,771
Basic mast unit		JM 850	28.7	8.2	8.2	32,187
Chassis girder		JM 850	17.1	3	5.1	7,055
Chassis ties		JM 850	23.6	0.8	1.1	551
Struts		JM 850	26.9	2.5	4.3	5,071
1/2 Cross girder		ZY 800 ZY 854	18.6 18.7	3.2 3.2	6.3 7.4	10,406 14,176
Cross girder		ZY 800 ZY 854	39.2 39	4.6 4.7	6.3 7.4	22,212 30,865

Mechanisms

480 V - 60 Hz													hp	kW	
	320 LVF 160 Optima	fpm	249	322	456	676	709	125	161	230	338	354	320	240	1,775
		USt	17.6	13.2	8.8	5.1	4.2	35.3	26.5	17.6	11.6	9.8			
	150 VVF 87		2 min 05 s									150	110		
	RVF 173 Optima +	rpm	0 → 1									3 x 10	3 x 7.5		

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

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.

- Standard equipment
- Options
- Reactions in service
- Reactions out of service
- Jib weight
- Total ballast weight
- Jib articulation axis
- Weather vaning position
- Lorry 44 ft
- Container High Cube 40 ft, and/or Flat Rack 20 ft
- Hoisting
- Luffing
- Slewing
- Travelling
- Required power
- Power Control Function: winch speeds adapted to the available power
- Consult us

This commercial document is not legally binding. For any technical information, please refer to the corresponding instructions.

