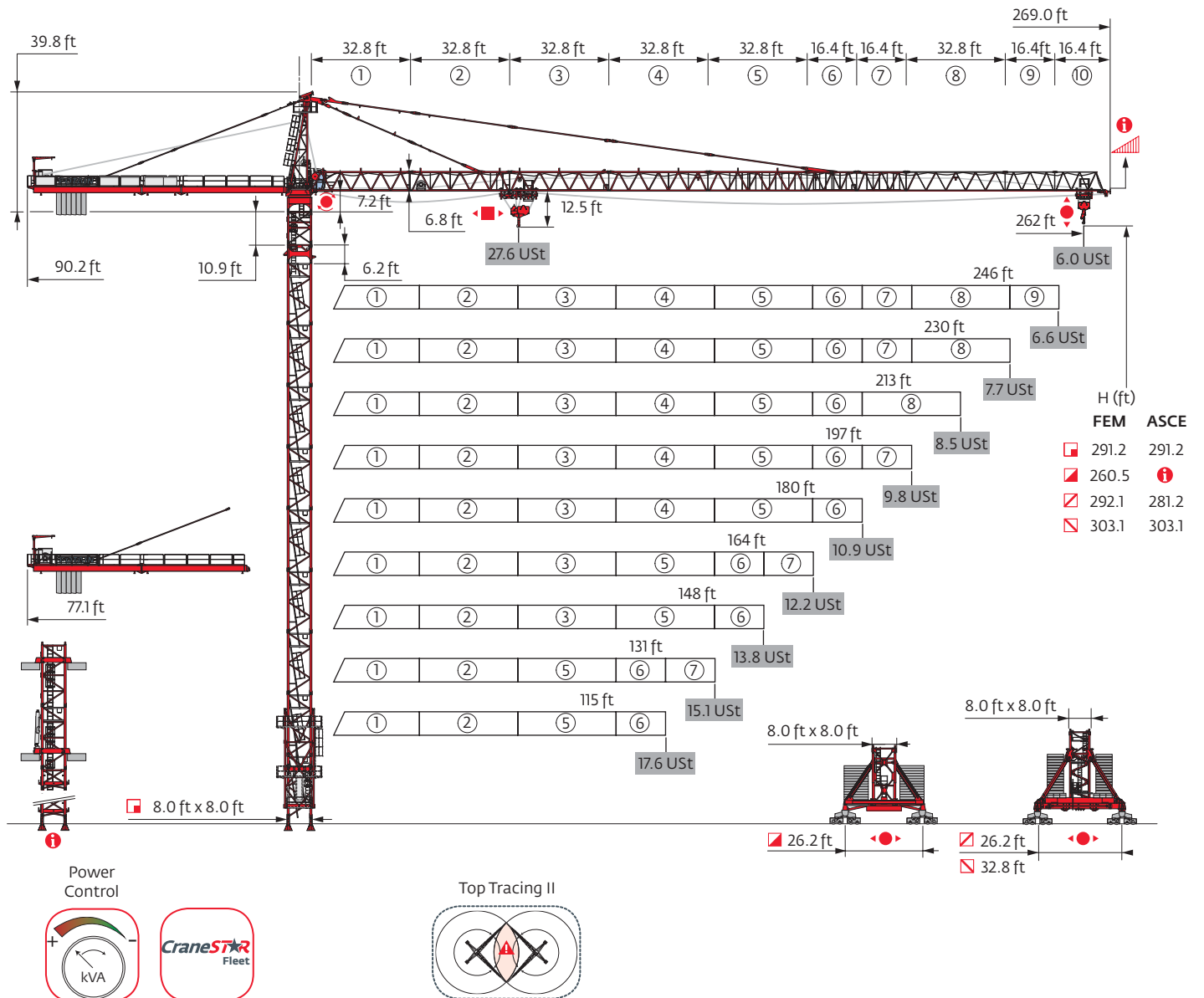


# MD 560 B M25

## Data Sheet

FEM 1.001-A3  
ASCE 7-10

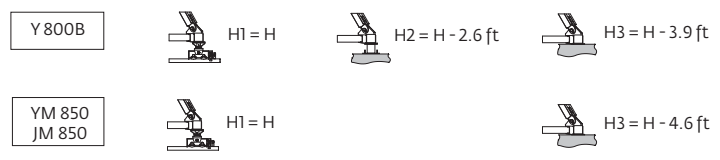
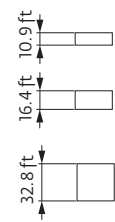
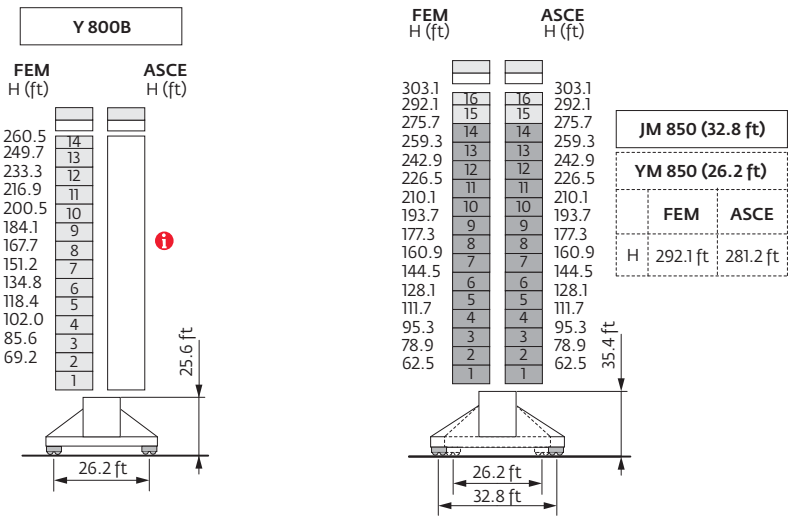
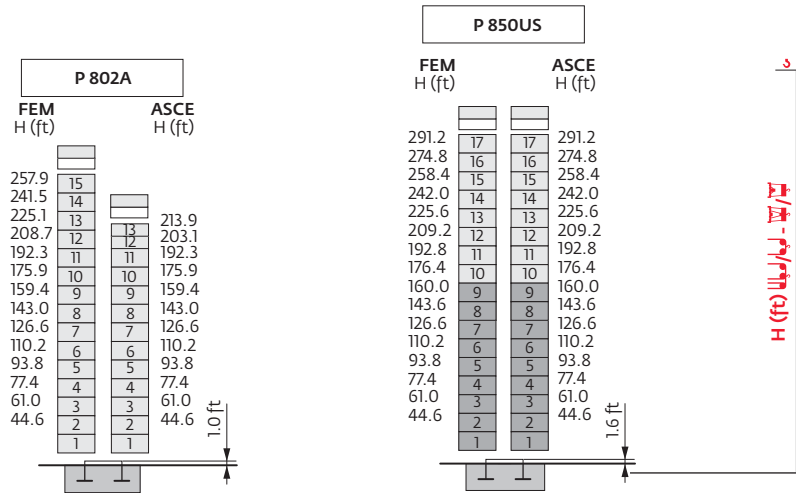


Values have been rounded

# Mast

8.0 ft

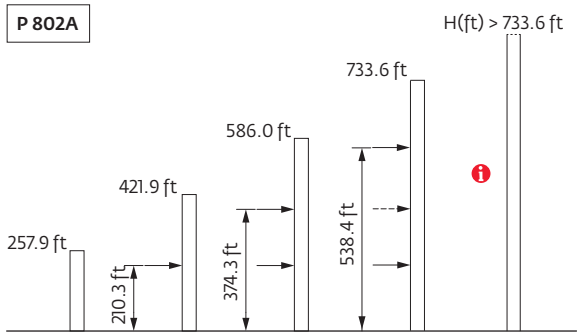
115 ft → 262 ft



□ = Non-reinforced mast  
 ◻ = Reinforced mast  
 ◼ = K850 mast

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.

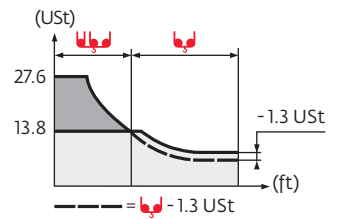
# Anchorage (Consult us for ASCE 7-10 values)



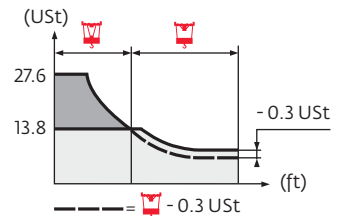
## Load charts



262 ft	12.3	▶	69	72	82	89	98	105	115	123	132	148	164	180	197	213	230	246	262	ft
▲▲▲			27.6	26	22.4	20.5	18.1	16.6	15.0	13.8	13.8	12.1	10.7	9.6	8.6	7.8	7.1	6.5	6.0	USt
246 ft	12.3	▶	69	72	82	89	98	105	115	124	134	148	164	180	197	213	230	246	ft	
▲▲▲			27.6	26.2	22.6	20.6	18.2	16.9	15.1	13.8	13.8	12.2	10.8	9.7	8.7	7.9	7.2	6.6	USt	
230 ft	12.3	▶	72	82	89	98	105	115	130	140	148	164	180	197	213	230	ft			
▲▲▲			27.6	23.8	21.7	19.3	17.9	16.0	13.8	13.8	13.0	11.5	10.3	9.3	8.5	7.7	USt			
213 ft	12.3	▶	73	82	89	98	105	115	130	141	148	164	180	197	213	ft				
▲▲▲			27.6	23.9	21.8	19.3	17.9	16.1	13.8	13.8	13.1	11.6	10.4	9.4	8.5	USt				
197 ft	12.3	▶	75	82	89	98	105	115	136	147	148	164	180	197	ft					
▲▲▲			27.6	25.0	22.9	20.3	18.8	16.9	13.8	13.8	13.7	12.1	10.9	9.8	USt					
180 ft	12.3	▶	76	82	89	98	105	115	136	147	148	164	180	ft						
▲▲▲			27.6	25.1	23.0	20.4	18.8	17.0	13.8	13.8	13.8	12.2	10.9	USt						
164 ft	12.3	▶	76	82	89	98	105	115	131	137	148	164	ft							
▲▲▲			27.6	25.2	23.1	20.5	19.0	17.1	14.6	13.8	13.8	12.2	USt							
148 ft	12.3	▶	76	82	89	98	105	115	131	136	148	ft								
▲▲▲			27.6	25.2	23.0	20.4	19.0	17.0	14.4	13.8	13.8	USt								
131 ft	12.3	▶	76	82	89	98	105	115	131	ft										
▲▲▲			27.6	25.4	23.1	20.5	19.1	17.1	14.6	USt										
115 ft	12.3	▶	76	82	89	98	105	115	ft											
▲▲▲			27.6	25.4	23.1	20.5	19.0	17.1	USt											



262 ft	9	▶	70	72	82	89	98	105	115	126	129	131	148	164	180	197	213	230	246	262	ft
▲▲▲			27.6	26.5	22.9	20.9	18.5	17.2	15.4	13.8	13.8	13.4	11.7	10.3	9.1	8.2	7.4	6.6	6.1	5.5	USt
246 ft	9	▶	70	72	82	89	98	105	115	128	130	131	148	164	180	197	213	230	246	ft	
▲▲▲			27.6	26.7	23.1	21.2	18.7	17.4	15.7	13.8	13.8	13.7	11.8	10.4	9.3	8.3	7.5	6.7	6.2	USt	
230 ft	9	▶	73	82	89	98	105	115	131	134	136	148	164	180	197	213	230	ft			
▲▲▲			27.6	24.4	22.3	19.7	18.3	16.5	14.1	13.8	13.8	12.6	11.0	9.8	8.8	8.0	7.3	USt			
213 ft	9	▶	74	82	89	98	105	115	131	135	137	148	164	180	197	213	ft				
▲▲▲			27.6	24.5	22.4	19.8	18.4	16.6	14.2	13.8	13.8	12.6	11.1	9.9	8.9	8.0	USt				
197 ft	9	▶	77	82	89	98	105	115	131	140	143	148	164	180	197	ft					
▲▲▲			27.6	25.6	23.5	20.8	19.3	17.4	14.9	13.8	13.8	13.2	11.7	10.5	9.4	USt					
180 ft	9	▶	77	82	89	98	105	115	131	141	143	148	164	180	ft						
▲▲▲			27.6	25.7	23.6	20.9	19.4	17.5	15.0	13.8	13.8	13.3	11.8	10.5	USt						
164 ft	9	▶	77	82	89	98	105	115	131	141	144	148	164	ft							
▲▲▲			27.6	25.8	23.7	20.9	19.5	17.5	15.0	13.8	13.8	13.3	11.8	USt							
148 ft	9	▶	77	82	89	98	105	115	131	141	144	148	ft								
▲▲▲			27.6	25.8	23.6	20.9	19.5	17.5	15.0	13.8	13.8	13.3	USt								
131 ft	9	▶	78	82	89	98	105	115	131	ft											
▲▲▲			27.6	25.9	23.7	21.1	19.6	17.6	15.1	USt											
115 ft	9	▶	77	82	89	98	105	115	ft												
▲▲▲			27.6	25.9	23.7	21.1	19.5	17.6	USt												



# Base ballast

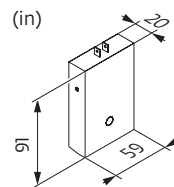
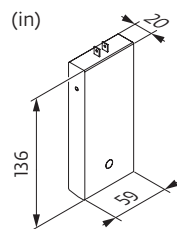
8.0 ft	<b>Y 800B</b> FEM ASCE	H (ft)	260.5	249.6	233.3	216.8	200.5	184.1	167.7	151.2	134.8	118.4	102.0	85.6	69.2			
		(USt)	119.0	105.8	92.6	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4		
		(USt)																
	<b>YM 850</b> FEM ASCE	H (ft)	292.1	281.2														
		(USt)	172.0	-														
		(USt)	-	145.5														
	<b>JM 850</b> FEM ASCE	H (ft)	303.1	292.1	275.7	259.3	242.9	226.5	210.1	193.7	177.3	160.9	144.5	128.1	111.7	95.3	78.9	62.5
		(USt)	132.3															
		(USt)	132.3															

# Counter-jib ballast


	(lb) (+/- 5%)		100 LVF			180 LVF GH		
			13,228 lb	8818 lb	(lb)	13,228 lb	8818 lb	(lb)
<b>262 ft</b>	56,582	57,618	6	0	79,366	4	2	70,548
<b>246 ft</b>	55,314	56,350	5	1	74,957	3	3	66,139
<b>230 ft</b>	53,859	54,895	5	1	74,957	2	4	61,729
<b>213 ft</b>	51,643	52,679	5	0	66,139	1	5	57,320
<b>197 ft</b>	50,905	51,941	5	0	66,139	2	3	52,911
<b>180 ft</b>	48,755	49,780	4	1	61,729	1	4	48,502
<b>164 ft</b>	45,239	46,275	5	0	66,139	2	3	52,911
<b>148 ft</b>	43,089	44,126	4	1	61,729	2	3	52,911
<b>131 ft</b>	39,121	40,157	2	3	52,911	1	3	39,683
<b>115 ft</b>	37,412	38,449	1	4	48,502	0	4	35,274

CBC - 13,228 lb

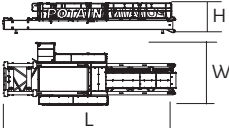
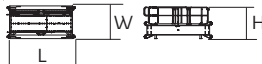
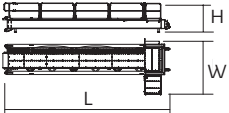
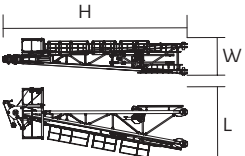


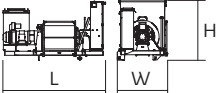






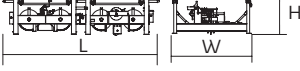



CBD - 8818 lb



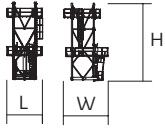


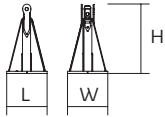
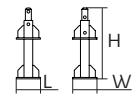
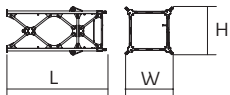
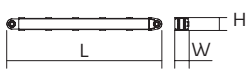
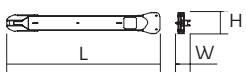

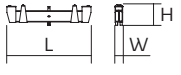
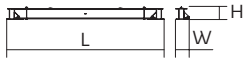
# Component weights

Crane upper :  262 ft -  100 LVF



			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib			38.4	13.5	6.4	14,308
			13.8	6.6	6.4	4365
			36.2	11.7	6.8	10,858
Towerhead			11.0	6.5	32.3	19,731
Cab		UltraView	16.4	8.2	9.1	4134
Pivot		□ 8.0 ft	12.1	9.5	12.7	24,670
Hoisting winch (+ rope)		100 LVF	10.4	5.2	5.7	9138
		180 LVF GH	14.0	6.3	6.2	20,349
Jib section		①	34.0	9.7	10.2	11,354
		② 10 DVF	33.9	6.2	7.7	10,737
		③	33.5	6.2	7.9	6537
		④	33.6	6.2	7.6	5897
		⑤	33.6	6.2	7.6	6162
Jib section		⑥	17.5	6.2	7.2	3748
		⑦	17.2	6.2	6.7	2271
		⑨	17.0	6.2	6.5	1202
		⑩	16.9	6.2	6.5	1102
Trolley		 27.6 USt	5.9	7.4	4.7	1676
Hook block		 27.6 USt	3.9	1.4	7.8	1874
Trolley		 27.6 USt	13.5	7.2	3.8	2635
Hook block		 27.6 USt	6.0	1.1	7.7	1995

# Component weights

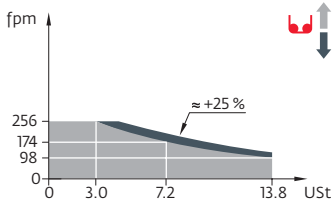
			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Climbing cage		8.0 ft	15.2	19.0	33.6	28,484
K 849/K 849 Climbing mast		8.0 ft	7.0	10.7	8.2	6581
KRMT 849A KRMT 849C		8.0 ft	17.2 11.7	8.4 8.4	8.3 8.3	9017 7066
Fixing angles		P 802A	2.5	2.5	4.2	1193
Fixing angles		P 850US	2.3	2.3	5.5	2127
Chassis mast		Y 800B	19.8	9.6	9.6	19,004
Struts		Y 800B	18.1	1.6	1.5	2447
1/2 Side member		Y 800B	18.6	4.1	2.4	3351
Side member		Y 800B	39.4	4.1	2.4	6724
Ballast support		Y 800B	12.3	1.2	3.0	2392
Chassis beam		Y 800B	28.5	2.7	2.4	4938

# Mechanisms

480 V - 60 Hz													hp	kW	
	<b>100 LVF 63 Optima</b>	fpm	98	174	240	256	49	89	121	128	100	75	2382 ft		
		USt	13.8	7.2	4.9	3.0	27.6	14.3	9.7	6.0					
	<b>180 LVF 63 GH Optima</b>	fpm	174	302	397	538	627	92	167	233	302	315	180	132	3937 ft
		USt	13.8	7.2	4.9	3.0	1.8	27.6	14.3	9.7	6.0	5.5			
	<b>10 DVF 10</b>	fpm	0 → 210 (27.6 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt)									10	7.4		
	<b>RVF 173 Optima+</b>	rpm	0 → 1									3 x 10	3 x 7.5		
<b>Y 800B</b> 	<b>RT 584 A1 - 2V</b>	fpm	28 - 56									8 x 8.4	8 x 6.2		

	<b>IEC 60204-32</b>		<b>kVA</b>
	480 V (+6% -10%) 60 Hz		100 LVF : 117 kVA 180 LVF GH : 181 → 109 kVA

## 100 LVF 63 Optima



## Key

	Jib elevation
	Standard equipment
	Options
	Reactions in service
	Reactions out of service
	Weight without load, without ballast, with jib and max. height
	Total ballast weight
	Truck 44 ft
	Container High Cube 40 ft, and/or Flat Rack 20 ft

	Tightened anchorage frame
	Loosened anchorage frame
	Hoisting
	Trolleying
	Slewing
	Travelling
	Required power
	Power Control function: Hoisting speeds adapted to the available power
	Consult us

# Notes

Note: 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.

Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories, and may not include all standard equipment.



[www.manitowoccranes.com](http://www.manitowoccranes.com)

## Manitowoc Cranes

### Regional Headquarters

#### Americas

Manitowoc, Wisconsin, USA  
Tel: +1 920 684 6621  
Fax: +1 920 683 6277

Shady Grove, Pennsylvania, USA  
Tel: +1 717 597 8121  
Fax: +1 717 597 4062

#### Europe, Middle East, Africa

Dardilly, France  
Tel: +33 472 18 2020  
Fax: +33 472 18 2000

#### China

Shanghai, China  
Tel: +86 21 6457 0066  
Fax: +86 21 6457 4955

#### Greater Asia-Pacific

Singapore  
Tel: +65 6264 1188  
Fax: +65 6862 4040

Potain MD 560 B M25  
Code 11-004-.25M-0614