

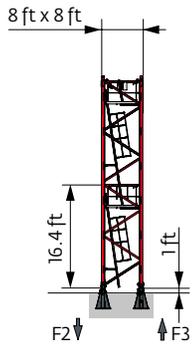


Mast - Reactions

8 ft - P 800B							
Height (ft)	98	115	131	148	164	180	197
Height (ft)	229	229	223.4	218.2	212.6	207	201.8
Height/P <sub>w</sub> (ft)	229	229	223.4	218.2	212.6	207	201.8
Ladder	10.9 ft	2	2	0	1	2	0
	16.4 ft	12	12	13	12	11	11
F2 (USt)	●	236	239	239	243	238	231
	■	393	410	403	407	409	404
F3 (USt)	●	165	166	155	160	158	161
	■	323	339	333	337	340	335

8 ft - P 854A							
Height (ft)	98	115	131	148	164	180	197
Height (ft)	289	283.8	278.2	272.6	267.4	261.8	256.2
Height/P <sub>w</sub> (ft)	289	283.8	278.2	272.6	267.4	261.8	256.2
Ladder	10.9 ft	0	1	2	0	1	2
	16.4 ft	17	16	15	16	15	14
F2 (USt)	●	291	293	297	298	292	285
	■	606	610	613	605	608	611
F3 (USt)	●	205	195	198	201	198	193
	■	522	526	528	521	525	528

P 63A / P 800B  
P 854A



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.

**i** Other mast compositions - Please consult us.

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

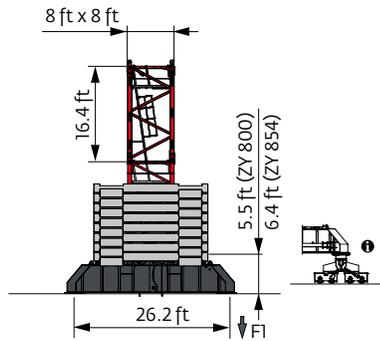
**8 ft - ZY 800 -**

Height (ft)	98	115	131	148	164	180	197
$\bar{z}$ (ft)	228	228	216.9	211.6	211.6	206	200.5
$\bar{z}/P^*$ (ft)	228	228	216.9	211.6	211.6	206	200.5
	10.9 ft	0	0	2	0	1	2
	16.4 ft	13	13	11	12	11	10
FI (USt)	● 146	152	152	151	153	150	151
	■ 194	202	197	193	202	205	205

**8 ft - ZY 854 -**

Height (ft)	98	115	131	148	164	180	197
$\bar{z}$ (ft)	272.6	261.8	261.8	250.7	245.4	239.8	229
$\bar{z}/P^*$ (ft)	272.6	261.8	261.8	250.7	245.4	239.8	229
	10.9 ft	1	0	0	2	0	1
	16.4 ft	15	15	15	13	14	13
FI (USt)	● 191	185	191	190	185	181	176
	■ 284	268	279	271	266	268	254

**ZY 800**  
**ZY 854**



Anchorage



Base ballast

 (USt) / 8 ft - ZY 800 - 

Δ\Δ (ft)	98	115	131	148	164	180	197
228	145.5	158.7					
216.9	132.3	145.5	158.7				
211.6	119.1	132.3	145.5	158.7	172		
206	105.8	119.1	132.3	145.5	158.7	172	
200.5	92.6	105.8	119.1	132.3	145.5	158.7	185.2
184.1	79.4	79.4	92.6	105.8	119.1	132.3	145.5
167.7	66.1	66.1	79.4	79.4	79.4	92.6	105.8
151.3	52.9	52.9	66.1	66.1	66.1	79.4	79.4
134.8	39.7	52.9	52.9	52.9	52.9	66.1	66.1
118.4	39.7	39.7	39.7	39.7	52.9	52.9	52.9
102	26.5	26.5	26.5	39.7	39.7	39.7	52.9
85.6	13.2	26.5	26.5	26.5	26.5	26.5	39.7

 (USt) / 8 ft - ZY 854 - 

Δ\Δ (ft)	98	115	131	148	164	180	197
272.6	238.1						
261.8	211.6	224.9	238.1				
250.7	198.4	211.6	224.9	238.1			
245.4	172	185.2	211.6	224.9	238.1		
239.8	172	185.2	198.4	211.6	224.9	238.1	
229	145.5	158.7	172	185.2	198.4	211.6	238.1
212.6	105.8	119.1	132.3	145.5	158.7	185.2	198.4
196.2	79.4	92.6	105.8	119.1	132.3	145.5	158.7
179.8	66.1	66.1	79.4	79.4	92.6	105.8	119.1
163.4	52.9	52.9	66.1	66.1	66.1	79.4	92.6
147	39.7	52.9	52.9	52.9	52.9	66.1	66.1
130.6	26.5	39.7	39.7	39.7	39.7	52.9	52.9
114.2	26.5	26.5	26.5	26.5	39.7	39.7	39.7
97.8	13.2	13.2	26.5	26.5	26.5	26.5	39.7

Load curves



Δ\Δ (ft)	49	56	66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	ft	
27.6 USt																									
13.8 USt																									
180	15.7 → 72.2	88.4 - 91.1	17.6	17.6	17.6	17.6	15.2	13.8	12.5	-	11.4	10	-	9.2	8.2	-	7.5	6.6	-	6.1	5.4	-	4.9	4.3	4.3 USt
	15.7 → 72.2	88.4 - 91.1	17.6	17.6	17.6	17.6	15.2	13.8	12.5	-	11.5	10.1	-	9.4	8.3	-	7.7	6.9	-	6.3	5.7	-	5.2	4.6	4.6 USt P+
164	15.1 → 62.3	91.7 - 94.3	22	22	20.8	18.6	15.9	14.4	13	-	11.9	10.5	-	9.6	8.5	-	7.8	6.9	-	6.3	5.6	5.5		USt	
	15.1 → 62.3	91.7 - 94.3	22	22	20.8	18.6	15.9	14.4	13	-	11.9	10.5	-	9.7	8.6	-	8	7.1	-	6.6	5.9	5.8		USt P+	
148	14.4 → 52.5	95.2 - 97.9	27.6	25.9	21.7	19.5	16.7	15.1	13.7	-	12.6	11.1	-	10.2	9	-	8.4	7.4	7.3					USt	
	14.4 → 52.6	95.2 - 97.9	27.6	25.9	21.7	19.5	16.7	15.1	13.7	-	12.6	11.1	-	10.3	9.2	-	8.5	7.6	7.5					USt P+	
131	13.5 → 52.5	97.9 - 100.8	27.6	26	22	19.8	17.1	15.6	13.8	-	13.1	11.6	-	10.8	9.6	9.4								USt	
	13.5 → 52.8	97.9 - 100.8	27.6	26	22	19.8	17.1	15.6	13.8	-	13.1	11.7	-	10.8	9.7	9.5								USt P+	
115	12.1 → 52.5	100.2 - 103.3	27.6	26	22.2	20.1	17.5	16	14.1	-	13.5	12.1	11.7											USt	
	12.1 → 52.9	100.2 - 103.3	27.6	26	22.2	20.1	17.5	16	14.1	-	13.5	12.1	11.7											USt P+	
98	10.2 → 52.5		27.6	26.1	22.3	20.3	17.7	16.2	14.4	13.8														USt	
	10.2 → 53		27.6	26.1	22.3	20.3	17.7	16.2	14.4	13.8														USt P+	

 =  - 0.65 USt max.

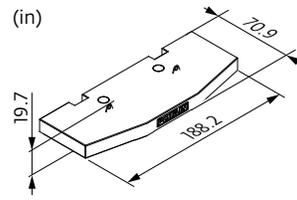


Δ\Δ (ft)	49	56	66	72	82	89	98	101.7	105	115	117.6	121	131	133.4	138	148	149.3	154	164	165.1	171	180	181	197	ft
13.8 USt																									
197	15.4 → 91.9		13.8	13.8	13.8	13.8	13.8	12.6	-	11.5	10.1	-	9.2	8.1	-	7.5	6.6	-	6.1	5.3	-	4.9	4.3	-	3.4 USt
	15.4 → 91.9		13.8	13.8	13.8	13.8	13.8	12.6	-	11.5	10.2	-	9.4	8.3	-	7.7	6.8	-	6.3	5.6	-	5.2	4.6	-	3.7 USt P+
180	15.7 → 88.6		13.8	13.8	13.8	13.8	13.8	12.2	-	11.3	10.1	-	9.4	8.4	-	7.8	7	-	6.5	5.9	-	5.4	4.9	4.9	USt
	15.7 → 88.6		13.8	13.8	13.8	13.8	13.8	12.2	-	11.4	10.2	-	9.5	8.6	-	8	7.2	-	6.8	6.1	-	5.7	5.2	5.1	USt P+
164	15.1 → 91.9		13.8	13.8	13.8	13.8	13.8	12.7	-	11.8	10.5	-	9.8	8.7	-	8.1	7.3	-	6.8	6.1	6.1				USt
	15.1 → 91.9		13.8	13.8	13.8	13.8	13.8	12.7	-	11.8	10.6	-	9.9	8.9	-	8.3	7.5	-	7.1	6.4	6.3				USt P+
148	14.4 → 93.5		13.8	13.8	13.8	13.8	13.8	13.1	-	12.2	11	-	10.3	9.3	-	8.7	8	7.8							USt
	14.4 → 93.6		13.8	13.8	13.8	13.8	13.8	13.1	-	12.2	11.1	-	10.4	9.5	-	8.9	8.1	8							USt P+
131	13.5 → 95.1		13.8	13.8	13.8	13.8	13.8	13.4	-	12.6	11.6	-	11	10.1	9.9										USt
	13.5 → 95.8		13.8	13.8	13.8	13.8	13.8	13.4	-	12.6	11.6	-	11	10.2	10										USt P+
115	12.1 → 96.8		13.8	13.8	13.8	13.8	13.8	13.7	-	13.2	12.5	12.3													USt
	12.1 → 97.6		13.8	13.8	13.8	13.8	13.8	13.7	-	13.2	12.5	12.3													USt P+
98	10.2 → 101.7		13.8	13.8	13.8	13.8	13.8	13.8	13.8																USt
	10.2 → 101.7		13.8	13.8	13.8	13.8	13.8	13.8	13.8																USt P+

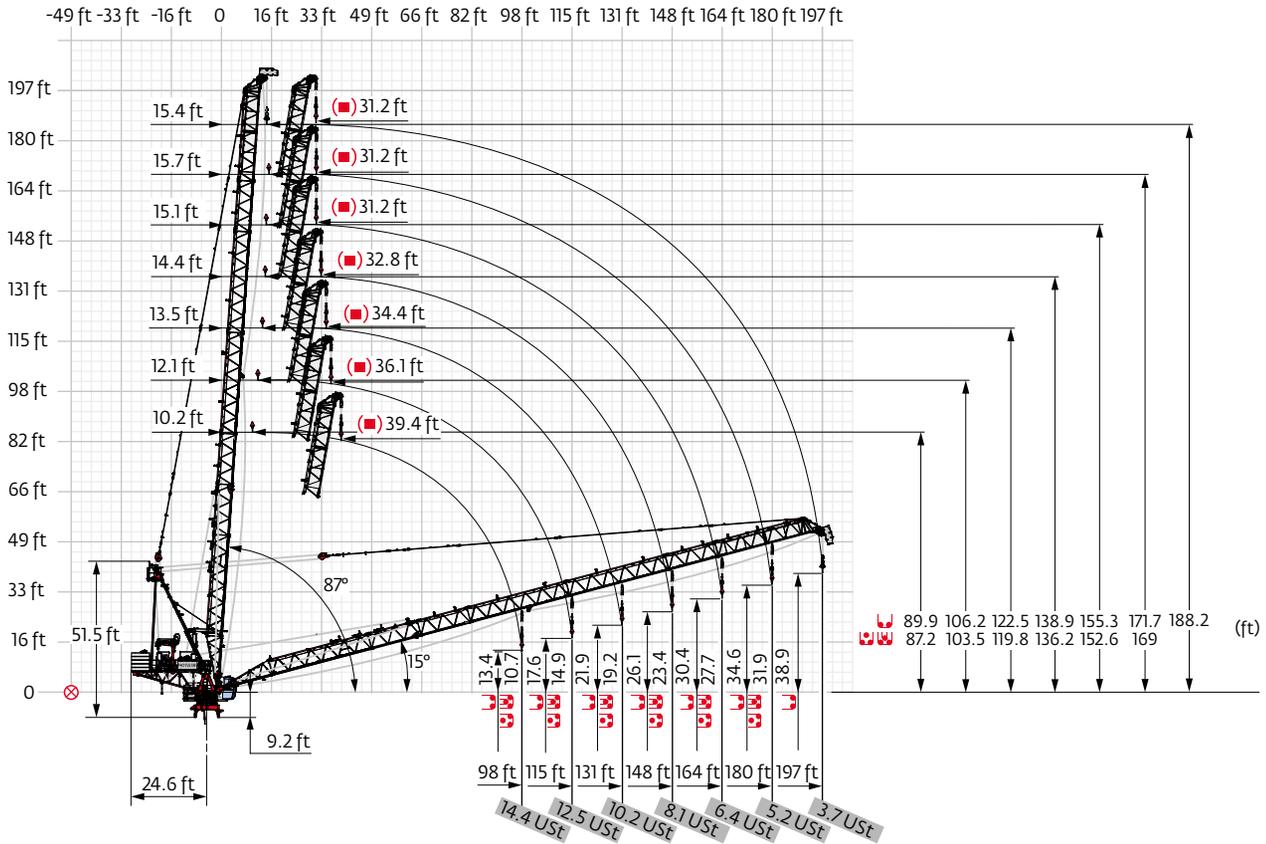
Jib weight & counter-jib ballast

Height (ft)	Jib Weight (lb)		Counter-jib Ballast (lb)	Total Weight (lb)
	Actual	Design (+/- 5%)		
197 ft	24,251	14,771 / 9,480	5	79,366
180 ft	24,251	14,771 / 9,480	5	79,366
164 ft	22,928	14,771 / 8,157	5	79,366
148 ft	21,385	14,771 / 6,614	5	79,366
131 ft	19,180	9,700 / 9,480	5	79,366
115 ft	17,857	9,700 / 8,157	5	79,366
98 ft	16,314	9,700 / 6,614	5	79,366

CDJ - 15,873 lb



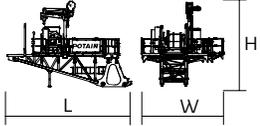
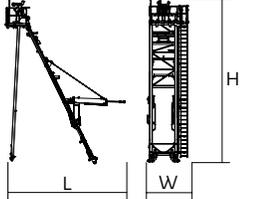
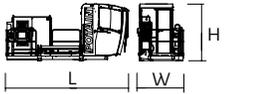
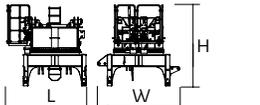
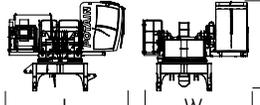
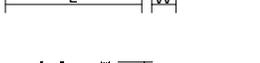
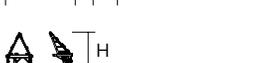
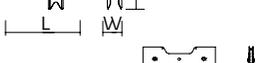
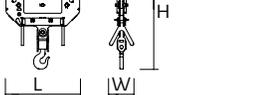
Luffing jib

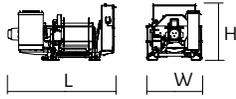
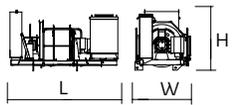
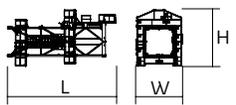
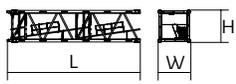
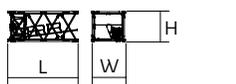
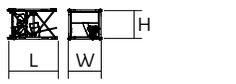
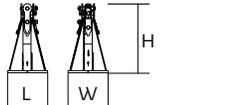
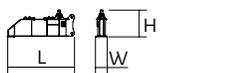
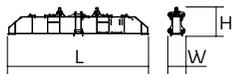


Dimensions and weight

Slewing crane part:  197 ft -  132 HPL™



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib	 100 VVF	28.3	16.5	19.3	24,482
Strut		23.6	9	37.8	14,440
Cab	 Ultra View	17.1	6.4	8.2	4,079
Towerhead	 8 ft	10.3	10.6	10.5	23,810
		17.1	15.7	13.2	27,889
Jib section	 ①	19.3	7.2	6.1	3,086
	 ②	33.4	6.2	6.9	3,086
	 ⑤	33.4	6	6.6	2,866
	 ⑥	33.4	6	6.6	2,756
	 ⑦	31	6	6.6	3,086
	 ③	17	6	6.9	2,116
	 ④	17	6	6.6	1,521
		5.9	5.1	7.4	959
Jib nose inspection platform		4.7	2.5	6	187
Pulley block		4.1	1	4.4	342
		2.8 5.3	0.9 1.8	3.8 5.6	1,025 1,135
		5.3	1.8	7.8	2,160

Hoisting winch (+ rope)		132 HPL™ 180 HPL™ GH	11.6 15	6.1 6.3	6.2 6.5	11,100 19,103
Luffing winch (+ rope)		100 VVF	10.6	5.5	5.9	7,948
<b>Crane tower</b>			<b>L (ft)</b>	<b>W (ft)</b>	<b>H (ft)</b>	<b>lb (+/- 5%)</b>
T 851		8 ft	36.7	15.9	19	34,723
KRM 849B K 85/KR 84B2 KM 850.10B KM 850.14B		8 ft	33.6 33.6 33.9 33.9	8.4 8.3 8.3 8.3	8.3 8.2 8.2 8.2	17,196 21,242 22,201 24,670
K 849A KMT 849A KR 849A KRMT 849A K 85/KR 84A2 KMT 850.10A KMT 850.14A		8 ft	17.2 17.2 17.2 17.2 17.5 17.5	8.3 8.4 8.3 8.4 8.3 8.3	8.2 8.3 8.2 8.3 8.2 8.2	7,496 6,945 9,458 9,017 12,236 12,015 13,206
KRMT 849C KMT 850.10C		8 ft	11.7 12	8.4 8.3	8.3 8.2	7,066 9,326
Fixing angles		P 63A / P 800B P 854A	2.5 3	2.5 3	4.2 4.9	1,025 2,072
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	
	132 HPL™ 63	fpm	133	172	243	363	502	67	87	125	185	251	132	98	2,815 ft
		USt	13.8	10.4	6.9	3.4	1.1	27.6	20.7	13.8	6.9	2.9			
	180 HPL™ 63 GH	fpm	179	220	289	438	640	90	112	149	238	320	180	132	3,937 ft
		USt	13.8	10.4	6.9	3.4	0.9	27.6	20.7	13.8	6.9	3.3			
	100 VVF 50		2 min									100	75		
	RVF 172 Optima+	rpm	0 → 0.8									2 x 10	2 x 7.5		

	kVA	
480 V (+6% -10%) 60 Hz	132 HPL™ + 100 VVF: 205 → 112 kVA	
	180 HPL™ + 100 VVF: 243 → 131 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
- Potain Plus function: Plus load curves
- Hook heights with Plus load curves
- 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.

