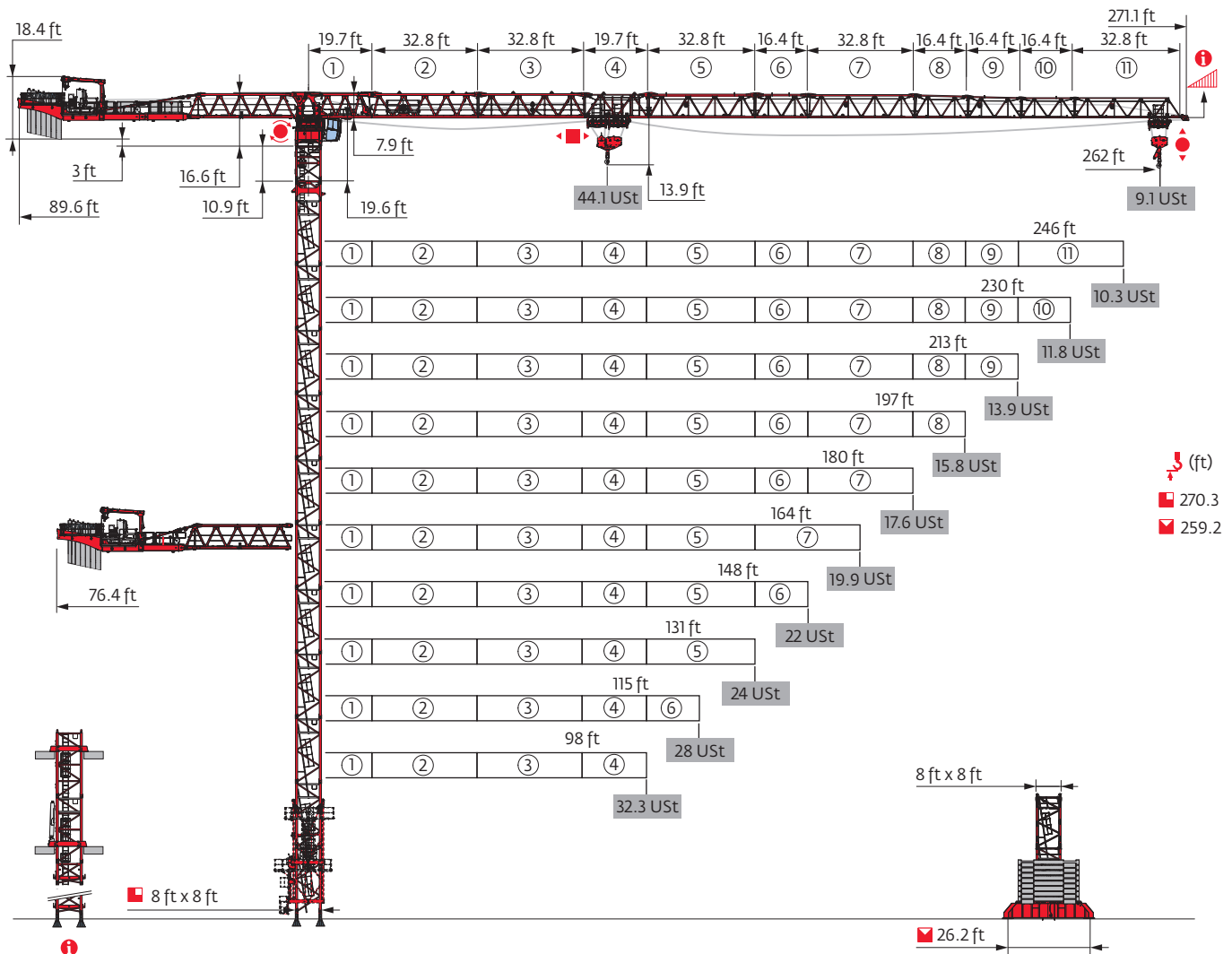


MDT 809 M40

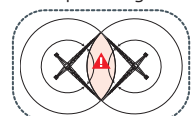
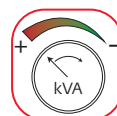


Potain Plus

Power Control

Top Site

Top Tracing 3



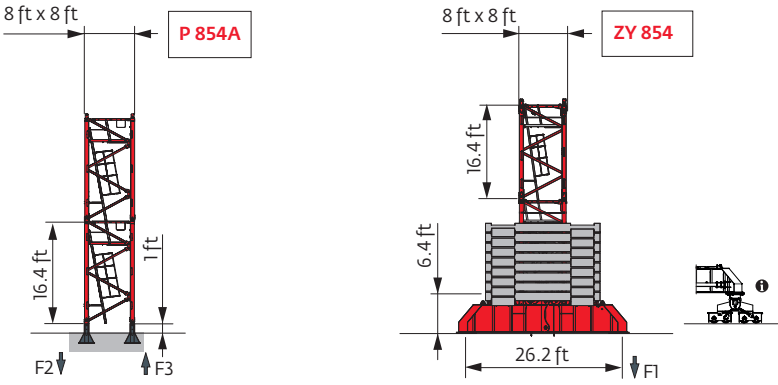
Mast - Reactions

8 ft - P 854A											
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
 (ft)	259.2	264.8	259.2	259.2	264.8	270.3	264.8	264.8	259.2	259.2	253.9
 /P _r (ft)	242.8	248.4	242.8	242.8	242.8	242.8	237.5	242.8	242.8	259.2	253.9
	10.9 ft	1	1	1	1	1	1	1	1	1	1
	6.2 ft	1	1	1	1	1	1	1	1	1	1
	10.9 ft	0	2	0	0	2	1	2	0	0	1
	16.4 ft	15	14	15	15	14	15	14	15	15	14
F2 (Ust)	● 414	415	418	412	420	417	419	413	406	418	414
	■ 496	518	496	503	532	553	540	547	531	533	523
F3 (Ust)	● 275	271	271	262	266	262	264	257	251	260	256
	■ 379	395	370	375	399	420	406	412	398	396	386

8 ft - ZY 854 - 											
Height (ft)	98	115	131	148	164	180	197	213	230	246	262
 (ft)	242.8	259.2	237.2	259.2	253.6	253.6	242.8	248.4	248.4	248.4	242.8
 /P _r (ft)	210	204.4	193.6	188	177.2	199.2	177.2	199.2	193.6	226.4	226.4
	10.9 ft	1	1	1	1	1	1	1	1	1	1
	6.2 ft	1	1	1	1	1	1	1	1	1	1
	10.9 ft	1	1	2	1	2	1	0	0	0	1
	16.4 ft	13	14	12	14	13	13	14	14	14	13
F1 (Ust)	● 230	242	229	247	242	240	237	243	244	240	243
	■ 201	234	194	243	231	233	215	227	237	237	236

 Motorized accesses: 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

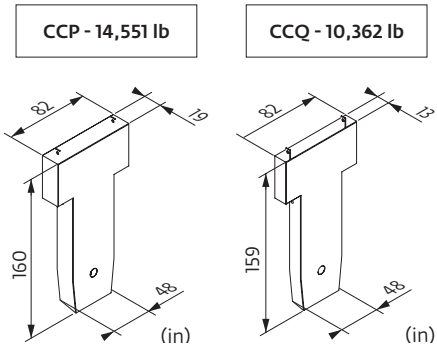


Base ballast

⚖️ (Ust) / 📏 8 ft - ZY 854 - 📦											
📏 (ft)	98	115	131	148	164	180	197	213	230	246	262
259.2		145.5		145.5							
253.6		145.5		132.3	132.3	158.7					
248.4		145.5		132.3	132.3	158.7		172	172	172	
242.8	145.5	145.5		132.3	132.3	158.7	158.7	172	172	172	185.2
237.2	145.5	145.5	132.3	132.3	119.1	158.7	158.7	158.7	172	172	172
220.8	132.3	119.1	119.1	105.8	105.8	145.5	158.7	158.7	158.7	172	172
204.4	132.3	119.1	105.8	92.6	92.6	145.5	145.5	158.7	158.7	158.7	172
188	105.8	105.8	105.8	105.8	92.6	145.5	145.5	145.5	145.5	158.7	172
171.6	92.6	92.6	92.6	92.6	92.6	132.3	145.5	145.5	145.5	145.5	172
155.2	92.6	92.6	79.4	92.6	92.6	132.3	132.3	132.3	145.5	145.5	172
138.8	92.6	92.6	79.4	92.6	92.6	119.1	132.3	132.3	132.3	145.5	172
122.4	92.6	92.6	79.4	92.6	92.6	119.1	119.1	132.3	132.3	145.5	172
106	92.6	92.6	79.4	92.6	92.6	119.1	119.1	119.1	132.3	145.5	172
89.6	92.6	92.6	79.4	92.6	92.6	105.8	119.1	119.1	132.3	145.5	172
73.2	92.6	92.6	79.4	92.6	92.6	105.8	105.8	105.8	132.3	145.5	172
56.8	92.6	92.6	79.4	92.6	92.6	105.8	105.8	105.8	132.3	145.5	172

Counter-jib ballast

	320 LVF 📏			320 LVF GH 📏		
📏	14,551 lb	10,362 lb	⚖️ (lb)	14,551 lb	10,362 lb	⚖️ (lb)
262 ft	6	1	97,665	5	2	93,476
246 ft	5	2	93,476	4	3	89,287
230 ft	4	3	89,287	6	0	87,303
213 ft	4	3	89,287	5	1	83,114
197 ft	5	1	83,114	4	2	78,925
180 ft	4	2	78,925	5	0	72,753
164 ft	5	2	93,476	4	3	89,287
148 ft	6	0	87,303	5	1	83,114
131 ft	4	2	78,925	3	3	74,737
115 ft	4	1	68,564	3	2	64,375
98 ft	4	0	58,202	3	1	54,013



Load curves



 (ft)			56	66	82	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft		
	 44.1 USt	 22 USt																											
262	14.8 → 61	108.8 - 117.5	44.1	40.5	31.1	24.9	23	22	21.2	19.4	18.3	16.9	16.1	14.9	14.2	13.3	12.7	11.9	11.5	10.8	10.4	9.8	9.5	9	8.7	8.3	USt		
	14.8 → 65.4	116.8 - 126.2	44.1	43.9	33.8	27.2	25.1	22.5	22	21.1	19.9	18.4	17.5	16.2	15.5	14.5	13.9	13.1	12.5	11.8	11.4	10.8	10.4	9.9	9.6	9.1	USt P+		
246	14.8 → 62.4	111.7 - 120.4	44.1	41.6	32	25.7	23.8	22	21.8	20	18.9	17.4	16.6	15.4	14.7	13.7	13.2	12.4	11.9	11.2	10.8	10.2	9.9	9.4	USt				
	14.8 → 67.1	120.3 - 129.7	44.1	44.1	34.9	28.1	26	23.4	22	21.7	20.6	19	18.1	16.8	16.1	15	14.4	13.5	13	12.3	11.9	11.2	10.8	10.3	USt P+				
230	14.8 → 64.5	116.1 - 124.7	44.1	43.3	33.4	26.9	24.9	22.3	22	20.8	19.7	18.2	17.3	16.1	15.4	14.4	13.8	13	12.5	11.8	11.3	10.7	USt						
	14.8 → 69.6	125.4 - 134.7	44.1	44.1	36.5	29.5	27.3	24.5	22.9	22	21.5	19.9	18.9	17.6	16.8	15.8	15.1	14.2	13.7	12.9	12.5	11.8	USt P+						
213	14.8 → 68.5	123.4 - 132.5	44.1	44.1	35.8	28.9	26.8	24.1	22.5	22	21.1	19.5	18.6	17.3	16.5	15.5	14.8	13.9	13.4	12.7	USt								
	14.8 → 74	133.3 - 143.5	44.1	44.1	39.2	31.7	29.4	26.4	24.7	22.5	22	21.3	20.3	18.9	18.1	17	16.3	15.3	14.7	13.9	USt P+								
197	14.8 → 70	126.2 - 135.6	44.1	44.1	36.7	29.7	27.5	24.7	23.1	22	21.6	20	19	17.7	16.9	15.9	15.2	14.3	USt										
	14.8 → 75.8	136.3 - 147	44.1	44.1	40.3	32.6	30.2	27.2	25.4	23.1	22	21.9	20.9	19.5	18.6	17.4	16.7	15.8	USt P+										
180	14.8 → 70.4	126.9 - 136.4	44.1	44.1	37	29.9	27.7	24.9	23.3	22	21.8	20.1	19.2	17.9	17.1	16	USt												
	14.8 → 76.3	137.1 - 148	44.1	44.1	40.6	32.9	30.5	27.4	25.6	23.3	22	22	21	19.6	18.8	17.6	USt P+												
164	14.8 → 71.5	129 - 138.6	44.1	44.1	37.7	30.5	28.2	25.4	23.7	22	22	20.5	19.5	18.2	USt														
	14.8 → 76.1	139.1 - 149.7	44.1	44.1	40.5	33	30.6	27.6	25.9	23.6	22.3	22	21.3	19.9	USt P+														
148	14.8 → 71.2	128.3 - 137.8	44.1	44.1	37.4	30.3	28.1	25.2	23.6	22	22	20.4	USt																
	14.8 → 75.1	137.2 - 147.6	44.1	44.1	39.9	32.5	30.2	27.2	25.5	23.2	22	22	USt P+																
131	14.8 → 73.9		44.1	44.1	39.1	31.7	29.4	26.4	24.7	22.5	USt																		
	14.8 → 76.2		44.1	44.1	40.7	33.2	30.9	27.9	26.2	24	USt P+																		
115	14.8 → 72.8		44.1	44.1	38.4	31.1	28.8	25.9	USt																				
	14.8 → 76.3		44.1	44.1	40.8	33.3	31	28	USt P+																				
98	14.8 → 72.3		44.1	44.1	38.2	30.9	USt																						
	14.8 → 75.2		44.1	44.1	39.9	32.3	USt P+																						

 =  - 2.24 USt max.

 =  - 2.24 USt max.



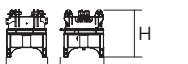
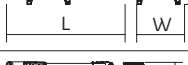
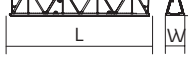
 (m)			56	66	82	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft	
	44.1 USt	 22 USt																										
262	10.5 → 60.7	107.8 - 110.1	44.1	40.2	30.9	24.7	22.8	20.9	19.5	17.7	16.6	15.2	14.3	13.2	12.5	11.6	11	10.2	9.8	9.1	8.7	8.1	7.8	7.3	7	6.6	USt	
	10.5 → 65.1	115.8 - 118.2	44.1	43.7	33.6	27	24.9	22.3	21.4	19.4	18.2	16.7	15.8	14.5	13.8	12.8	12.2	11.3	10.8	10.1	9.7	9.1	8.7	8.2	7.8	7.4	USt P+	
246	10.5 → 62.1	110.8 - 113.1	44.1	41.3	31.8	25.5	23.6	21.6	20.2	18.3	17.2	15.8	14.9	13.8	13.1	12.1	11.5	10.7	10.3	9.6	9.2	8.6	8.2	7.7	USt			
	10.5 → 66.8	119.3 - 121.8	44.1	44.1	34.7	27.9	25.8	23.1	22	20.1	18.9	17.4	16.4	15.2	14.4	13.4	12.8	11.9	11.4	10.7	10.2	9.6	9.2	8.7	USt	P+		
230	10.5 → 64	114.2 - 116.6	44.1	42.8	33	26.5	24.5	22	21	19.1	17.9	16.4	15.5	14.3	13.6	12.6	12	11.2	10.7	10	9.6	9 USt						
	10.5 → 69	123.4 - 126	44.1	44.1	36	29	26.9	24.1	22.5	21	19.7	18.1	17.2	15.9	15.1	14	13.4	12.5	11.9	11.2	10.7	10.1	USt		P+			
213	10.5 → 68.2	122.4 - 125	44.1	44.1	35.6	28.7	26.6	23.8	22.3	20.8	19.6	18	17	15.8	15	13.9	13.3	12.4	11.9	11.2 USt								
	10.5 → 73.7	132.2 - 135.2	44.1	44.1	39	31.5	29.2	26.2	24.5	22.3	21.6	19.8	18.8	17.4	16.6	15.4	14.7	13.8	13.2	12.4	USt			P+				
197	10.5 → 69.7	125.2 - 128	44.1	44.1	36.5	29.5	27.3	24.5	22.9	21.4	20.1	18.5	17.5	16.2	15.4	14.4	13.7	12.8 USt										
	10.5 → 75.4	135.3 - 138.5	44.1	44.1	40	32.4	30	27	25.2	22.9	22	20.4	19.4	17.9	17.1	15.9	15.2	14.2 USt				P+						
180	10.5 → 70.4	126.9 - 129.6	44.1	44.1	37	29.9	27.7	24.9	23.3	21.7	20.5	18.8	17.9	16.6	15.8	14.7 USt												
	10.5 → 76.3	137.1 - 140.7	44.1	44.1	40.6	32.9	30.5	27.4	25.6	23.3	22	20.7	19.7	18.3	17.5	16.3	USt							P+				
164	10.5 → 71.5	129 - 131.7	44.1	44.1	37.7	30.5	28.2	25.4	23.7	22	20.9	19.2	18.2	16.9	USt													
	10.5 → 76.1	139.1 - 142.2	44.1	44.1	40.5	33	30.6	27.6	25.9	23.6	22.3	20.7	20	18.6	USt										P+			
148	10.5 → 71.2	128.3 - 131.2	44.1	44.1	37.4	30.3	28.1	25.2	23.6	22	20.8	19.1 USt																
	10.5 → 75.1	137.2 - 147.6	44.1	44.1	39.9	32.5	30.2	27.2	25.5	23.2	22	22 USt													P+			
131	10.5 → 73.9		44.1	44.1	39.1	31.7	29.4	26.4	24.7	22.5	USt																	
	10.5 → 76.2		44.1	44.1	40.7	33.2	30.9	27.9	26.2	24	USt														P+			
115	10.5 → 72.8		44.1	44.1	38.4	31.1	28.8	25.9 USt																				
	10.5 → 76.3		44.1	44.1	40.8	33.3	31	28 USt																	P+			
98	10.5 → 72.3		44.1	44.1	38.2	30.9 USt																						
	10.5 → 75.2		44.1	44.1	39.9	32.3 USt																			P+			
			 =  - 1.86 USt max.																									

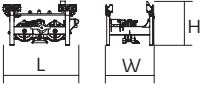
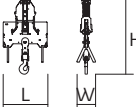
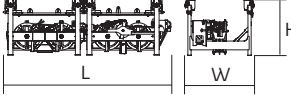
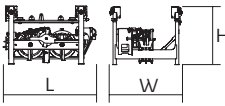
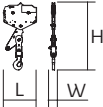
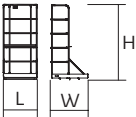
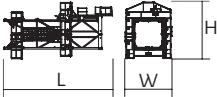
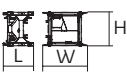
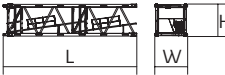
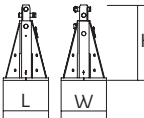
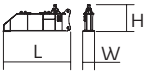
 =  - 1.86 USt max.

Dimensions and weight

Slewing crane part:  262 ft -  -  -  320 LVF



Slewing crane part		L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Counter-jib		25.9	7.4	7.4	23,171
		39.4	7.4	7.4	31,978
		34	4.5	8.1	21,142
		39.7	21.9	13.7	27,040
		52.8	21.9	13.7	35,891
Hoisting winch (+ rope)	 320 LVF	16.8	7.3	7.3	21,437
	 320 LVF GH	18.4	7.2	7.8	31,150
Cab	 Ultra View	11	7.5	8.2	6,614
Towerhead	 8 ft	8.5	8.2	9.7	34,392
		22.5	8.2	9.7	41,006
					
Jib section	 ①	25.6	5.1	8.2	27,893
	 ②	34.5	7.3	8.2	27,133
	 ③	34.1	4.8	8.1	18,683
	 ④	20.9	4.5	7.9	8,754
	 ⑤	34.4	4.5	7.8	10,983
	 ⑦	33.9	4.5	7.5	7,043
	 ⑪	33.2	4.5	6.4	3,103
	 ⑥	17.8	4.5	7.7	4,859
	 ⑧	17.3	4.5	7.3	3,013
	 ⑨	17.3	4.5	6.8	2,175
	⑩	17.3	4.5	6.7	1,955
		5.5	5.2	1.9	728

			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
Trolley			8.6	5.7	5.2	2,678
Pulley block			6.2	2.6	10.4	3,120
Trolley			13.8	5.9	4.9	3,219
Pulley block			7.5	1.1	9.7	2,888
Trolley			6.9	5.9	4.9	1,720
Pulley block			5	1.1	10	1,786
Trolley inspection platform			3.1	3.4	7	125
Crane tower						
T 851			36.7	15.9	19	34,723
K 85/K 85-2			7.3	10.7	8.2	7,937
KM 850.10B KM 850.14B KMT 850.10A KMT 850.14A KMT 850.10C			33.9 33.9 17.5 17.5 12	8.3 8.3 8.3 8.3 8.3	8.2 8.2 8.2 8.2 8.2	22,201 24,670 12,015 13,206 9,326
Fixing angles			3	3	4.9	2,072
1/2 Cross girder			18.6	3.2	7.4	13,095
Cross girder			39	4.7	7.4	29,432

Mechanisms

480 V - 60 Hz													hp	kW	
	320 LVF 100 Optima	fpm	220	282	387	486	531	112	141	197	243	266	320	240	1,745 ft
		USt	22	16.5	11	7.5	6.6	44.1	33.1	22	15.7	14			
	320 LVF 100 GH Optima	fpm	220	279	369	436		112	141	187	218		320	240	3,488 ft
		USt	22	16.5	11	8		44.1	33.1	22	18.1				
	15 DVF 16 Optima	fpm	0 → 108 (44.1 USt) 0 → 164 (22 USt) 0 → 220 (11 USt) 0 → 328 (2.8 USt)										15	11	
	RVF 174 Optima +	rpm	0 → 0.7										4 x 10	4 x 7.5	
															

 IEC 60204-32		
480 V (+6% -10%) 60 Hz	306 → 178 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.

	Jib elevation		Total ballast weight		Required power
	Standard equipment		Lorry 44 ft		Power Control Function: winch speeds adapted to the available power
	Options		Container High Cube 40 ft, and/or Flat Rack 20 ft		Consult us
	Potain Plus function: Plus load curves		Hoisting		
	Hook heights with Plus load curves		Trolleying		
	Reactions in service		Slewing		
	Reactions out of service		Travelling		

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

