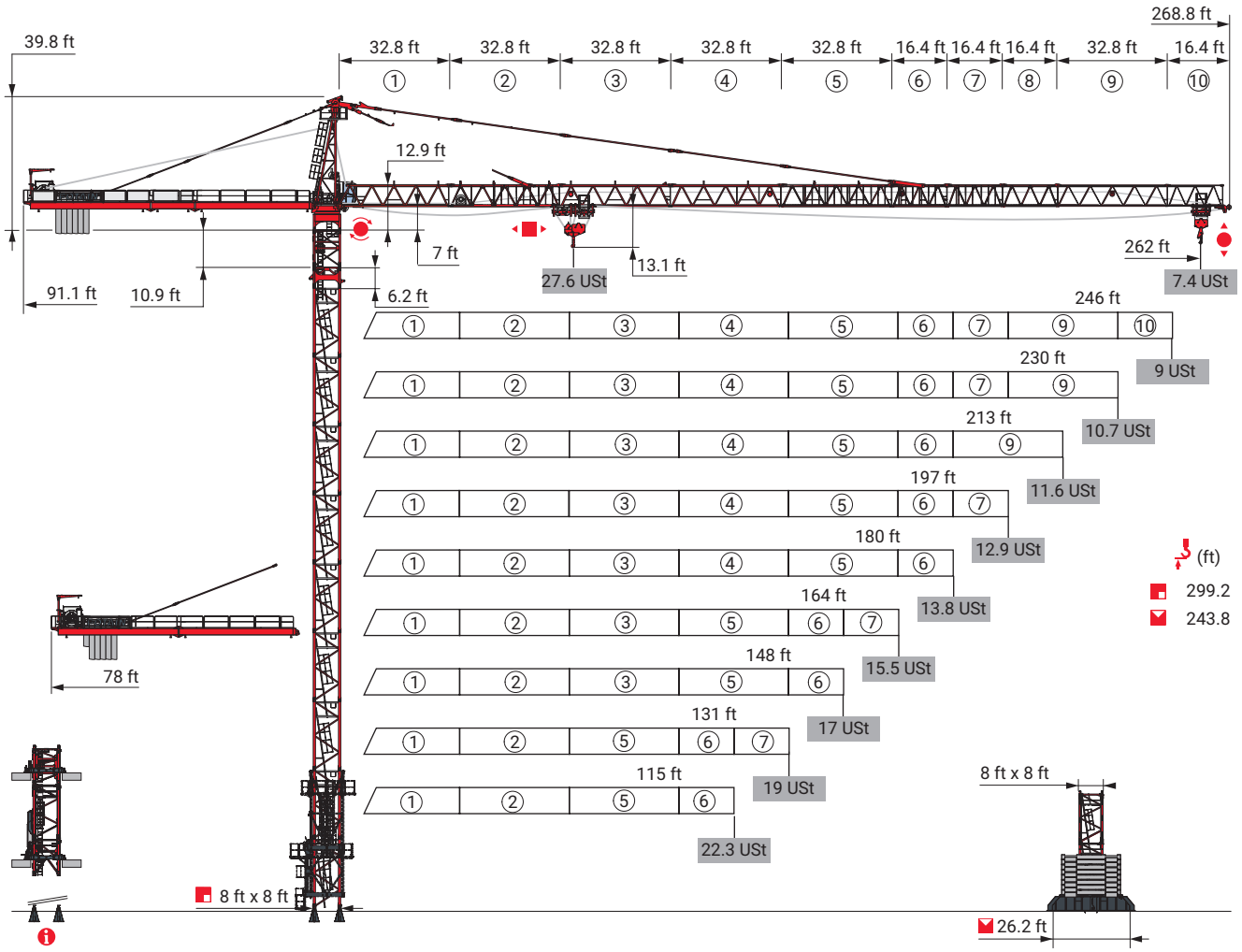
POTAIN®

MD 689 M25

ASME B30.3-2025



Potain Plus

Power Control

Top Site

Anti-collision systems

Automatic Rotation Control

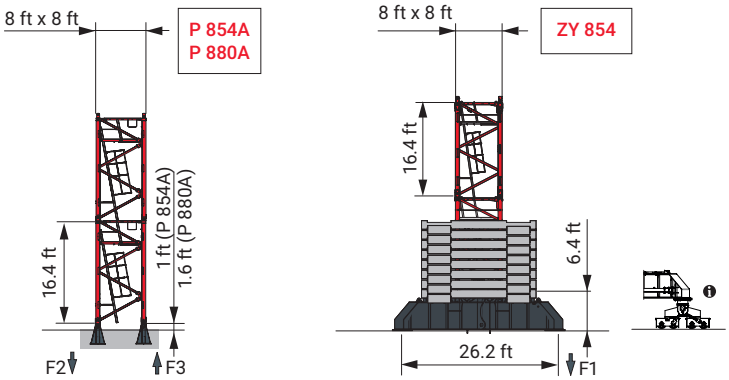
Values have been rounded.

Mast - Reactions

8 ft - P 854A										
(ft)	115	131	148	164	180	197	213	230	246	262
(ft)	244.1	244.1	244.1	238.5	244.1	238.5	238.5	232.9	244.1	244.1
/P+ (ft)	244.1	244.1	244.1	238.5	244.1	238.5	238.5	232.9	244.1	244.1
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	0	0	1	0	1	1	2	0	0
16.4 ft	14	14	14	13	14	13	13	12	14	14
F2 (USt) ●	382	382	396	387	394	385	388	375	395	399
F2 (USt) ■	514	518	526	493	530	501	508	481	548	585
F3 (USt) ●	278	277	287	276	283	273	275	260	278	282
F3 (USt) ■	423	426	430	396	434	402	409	380	445	481

8 ft - P 880A										
(ft)	115	131	148	164	180	197	213	230	246	262
(ft)	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	293.6	288.4
/P+ (ft)	299.2	299.2	299.2	299.2	299.2	299.2	299.2	299.2	293.6	288.4
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	2	2	2	2	2	2	2	2	0	1
16.4 ft	16	16	16	16	16	16	16	16	17	16
F2 (USt) ●	480	481	497	498	496	496	499	494	485	481
F2 (USt) ■	853	859	869	863	877	873	881	880	851	860
F3 (USt) ●	357	356	369	368	367	365	367	360	353	348
F3 (USt) ■	743	747	755	746	762	755	763	759	732	741

8 ft - ZY 854 -										
(ft)	115	131	148	164	180	197	213	230	246	262
(ft)	238.5	238.5	238.5	232.9	238.5	232.9	238.5	232.9	238.5	243.8
/P+ (ft)	238.5	238.5	238.5	232.9	238.5	232.9	238.5	232.9	238.5	243.8
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	2	2	2	0	2	0	2	0	2	1
16.4 ft	12	12	12	13	12	13	12	13	12	13
F1 (USt) ●	199	200	205	199	205	198	206	199	204	218
F1 (USt) ■	254	256	259	235	262	238	261	240	269	304



Other mast compositions - Please consult us.

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

Anchorages

Base ballast

(USt) / 8 ft - ZY 854 -											
(ft)	115	131	148	164	180	197	213	230	246	262
243.8										224.9
238.5	198.4	198.4	198.4		198.4		198.4		185.2	198.4
232.9	185.2	185.2	185.2	185.2	185.2	185.2	185.2	185.2	172	172
216.5	158.7	158.7	158.7	158.7	158.7	158.7	158.7	158.7	145.5	119.1
200.1	145.5	145.5	132.3	132.3	132.3	132.3	132.3	132.3	119.1	105.8
183.7	119.1	119.1	105.8	119.1	105.8	105.8	105.8	105.8	105.8	105.8
167.3	105.8	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6	92.6
150.9	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	92.6	92.6
134.5	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
118.1	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4	79.4
101.7	79.4	79.4	79.4	79.4	79.4	66.1	66.1	79.4	79.4	79.4
85.3	79.4	79.4	79.4	79.4	79.4	66.1	66.1	79.4	79.4	79.4
68.9	79.4	79.4	79.4	79.4	79.4	66.1	66.1	79.4	79.4	79.4

Load curves

(ft)			72	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	ft
	27.6 USt	13.8 USt																					
262	12.5 → 77.4	136.8 - 149.6	27.6	25.7	23.5	20.7	17.2	16	14.5	13.8	13.3	12.4	11	10.6	9.9	9	8.7	8.2	7.9	7.5	7.3	6.9	USt
	12.5 → 78.8	141.2 - 154.7	27.6	26.3	24.1	21.3	17.7	16.6	15.1	13.8	13.8	12.9	11.6	11.1	10.4	9.5	9.1	8.7	8.4	8	7.7	7.4	USt P+
246	12.5 → 84.7	148.2 - 161.4	27.6	27.6	26.1	23	19	17.8	16.1	13.8	13.8	13.5	12	11.5	10.8	9.8	9.4	8.9	8.6	8.2	USt		
	12.5 → 87.7	156.6 - 170.9	27.6	27.6	27	24.1	20.1	18.8	17.1	14.8	14	13.8	12.9	12.4	11.7	10.6	10.3	9.7	9.4	9	USt P+		
230	12.5 → 90	158.9 - 172.7	27.6	27.6	27.6	24.8	20.6	19.3	17.5	15.1	14.3	13.8	13.1	12.5	11.8	10.7	10.3	9.8	USt				
	12.5 → 92	167.7 - 182.9	27.6	27.6	27.6	25.5	21.5	20.2	18.4	16	15.2	14.2	13.8	13.5	12.7	11.6	11.2	10.7	USt P+				
213	12.5 → 87.8	159.1 - 173.9	27.6	27.6	27	24.2	20.3	19	17.4	15.1	14.3	13.8	13.2	12.7	11.9	10.9	USt						
	12.5 → 92.2	168.2 - 182.6	27.6	27.6	27.6	25.6	21.5	20.2	18.4	16.1	15.3	14.2	13.8	13.4	12.7	11.6	USt P+						
197	12.5 → 88.7	160.6 - 175	27.6	27.6	27.6	24.5	20.5	19.2	17.6	15.3	14.5	13.8	13.3	12.8	12.1	USt							
	12.5 → 93.6	170.8 - 185.4	27.6	27.6	27.6	26.1	21.9	20.6	18.8	16.4	15.6	14.5	13.8	13.7	12.9	USt P+							
180	12.5 → 88.3	159.9 - 174.2	27.6	27.6	27	24.4	20.4	19.1	17.5	15.2	14.4	13.8	13.2	USt									
	12.5 → 91.8	167.3 - 180.4	27.6	27.6	27.6	25.5	21.4	20.1	18.4	16	15.2	14.1	13.8	USt P+									
164	12.5 → 91.5		27.6	27.6	27.6	25.4	21.3	20	18.2	15.9	15	14	USt										
	12.5 → 96.2		27.6	27.6	27.6	26.8	22.6	21.2	19.4	16.9	16.1	14.9	USt P+										
148	12.5 → 90.3		27.6	27.6	27.6	25	21	19.7	18	15.6	USt												
	12.5 → 93.6		27.6	27.6	27.6	26	21.9	20.5	18.8	16.4	USt P+												
131	12.5 → 90.3		27.6	27.6	27.6	25	21	19.7	17.9	USt													
	12.5 → 92.1		27.6	27.6	27.6	25.6	21.5	20.2	18.4	USt P+													
115	12.5 → 91		27.6	27.6	27.6	25.2	21.1	USt															
	12.5 → 92.9		27.6	27.6	27.6	25.8	21.7	USt P+															

= - 1.51 USt max.

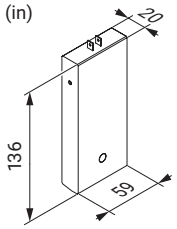
(ft)			72	82	89	98	115	121	131	148	154	164	180	187	197	213	220	230	236	246	253	262	ft
	27.6 USt	13.8 USt																					
262	8.9 → 78.8	141.3 - 144.8	27.6	26.3	24.1	21.3	17.7	16.6	15.1	13.5	12.8	11.8	10.5	10	9.4	8.5	8.1	7.7	7.4	7	6.7	6.4	USt
	8.9 → 80.2	146.1 - 149.7	27.6	26.9	24.7	21.9	18.3	17.2	15.7	13.8	13.3	12.4	11	10.6	9.9	9	8.6	8.1	7.9	7.4	7.2	6.8	USt P+
246	8.9 → 86.2	153.1 - 156.7	27.6	27.6	26.7	23.6	19.6	18.3	16.7	14.4	13.8	13	11.6	11.1	10.4	9.3	9	8.5	8.2	7.7	USt		
	8.9 → 89.3	161.9 - 165.9	27.6	27.6	27.6	24.7	20.7	19.4	17.7	15.4	14.6	13.8	12.5	11.9	11.2	10.2	9.8	9.3	8.9	8.5	USt P+		
230	8.9 → 91.7	164.3 - 168.3	27.6	27.6	27.6	25.4	21.2	19.9	18.1	15.7	14.9	13.8	12.7	12.1	11.4	10.3	9.9	9.4	USt				
	8.9 → 93.7	173.7 - 178.1	27.6	27.6	27.6	26.1	22	20.7	19	16.6	15.8	14.7	13.6	13	12.3	11.2	10.8	10.3	USt P+				
213	8.9 → 89.5	164.7 - 168.8	27.6	27.6	27.6	24.8	20.9	19.6	17.9	15.7	14.9	13.8	12.8	12.2	11.5	10.5	USt						
	8.9 → 94	174.3 - 177.9	27.6	27.6	27.6	26.2	22.1	20.7	19	16.7	15.9	14.8	13.6	13	12.3	11.2	USt P+						
197	8.9 → 90.3	166.3 - 170.6	27.6	27.6	27.6	25.1	21.1	19.8	18.1	15.8	15.1	14	12.9	12.4	11.7	USt							
	8.9 → 95.4	176.9 - 180.6	27.6	27.6	27.6	26.6	22.5	21.1	19.4	17	16.1	15	13.8	13.2	12.5	USt P+							
180	8.9 → 89.9	165.5 - 169.7	27.6	27.6	27.6	24.9	21	19.7	18	15.7	15	13.9	12.8	USt									
	8.9 → 93.5	173.3 - 177.2	27.6	27.6	27.6	26	22	20.7	18.9	16.6	15.8	14.7	13.5	USt P+									
164	8.9 → 93.2		27.6	27.6	27.6	26	21.9	20.5	18.8	16.4	15.6	14.5	USt										
	8.9 → 98		27.6	27.6	27.6	27.4	23.1	21.8	20	17.5	16.6	15.5	USt P+										
148	8.9 → 92		27.6	27.6	27.6	25.6	21.5	20.2	18.5	16.2	USt												
	8.9 → 95.4		27.6	27.6	27.6	26.6	22.5	21.1	19.4	17	USt P+												
131	8.9 → 92		27.6	27.6	27.6	25.6	21.5	20.2	18.5	USt													
	8.9 → 93.8		27.6	27.6	27.6	26.2	22.1	20.7	19	USt P+													
115	8.9 → 92.7		27.6	27.6	27.6	25.8	21.7	USt															
	8.9 → 94.6		27.6	27.6	27.6	26.4	22.3	USt P+															

= - 0.41 USt max.

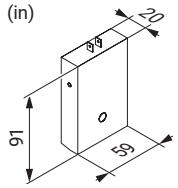
Jib weight and counter-jib ballast

	(lb) (+/- 5%)		132 HPL™			180 HPL™ GH		
			13,228 lb	8,818 lb	(lb)	13,228 lb	8,818 lb	(lb)
262 ft	58,908	59,988	6	0	79,366	5	0	66,139
246 ft	56,593	57,673	6	0	79,366	5	0	66,139
230 ft	55,380	56,460	6	0	79,366	5	0	66,139
213 ft	52,900	53,980	4	2	70,548	3	2	57,320
197 ft	52,305	53,385	4	2	70,548	3	2	57,320
180 ft	49,824	50,905	4	1	61,729	3	1	48,502
164 ft	46,198	47,278	5	1	74,957	4	1	61,729
148 ft	43,718	44,798	3	3	66,139	2	3	52,911
131 ft	39,562	40,642	3	2	57,320	2	2	44,092
115 ft	37,082	38,162	2	3	52,911	1	3	39,683

CBC - 13,228 lb



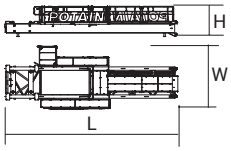
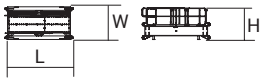
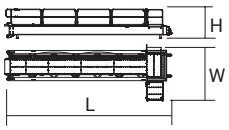
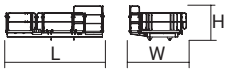
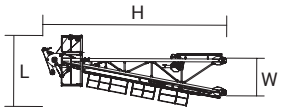
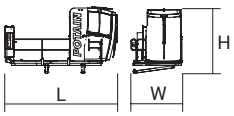
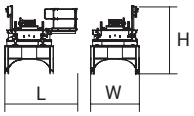
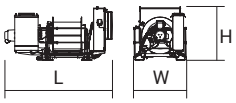
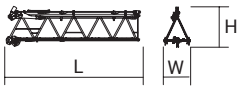
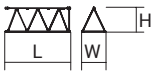
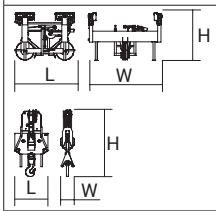
CBD - 8,818 lb

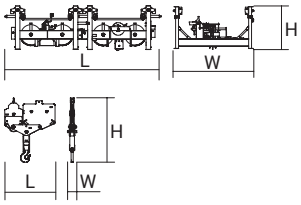
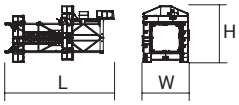
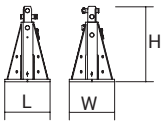
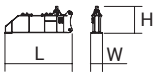


Dimensions and weight

Slewing crane part - : 262 ft - - 132 HPL™

x 14
x 11

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Counter-jib		38.4	13.5	6.4	14,308
			13.8	6.6	6.4	4,365
			36.2	11.7	6.8	10,858
		132 HPL™ 180 HPL™ GH	16.5 18.5	11 10.8	5.5 6.4	1,323 3,541
	Cathead		11.6	6.5	32.3	18,221
	Cab	Ultra View	16.4	8.2	9.1	4,134
	Towerhead	8 ft	12.1	9.5	12.7	25,485
	Hoisting winch (+ rope)	132 HPL™ 180 HPL™ GH	12.4 15.8	6.1 6.3	6.2 6.5	11,387 19,279
	Jib section	① ② 10 DVF ③ ④ ⑤ ⑨	34 33.9 33.6 33.6 33.6 33.5	6.2 6.2 6.2 6.2 6.2 6.2	8.3 7.7 7.9 7.6 7.6 6.6	11,241 10,944 6,634 6,105 6,279 3,075
	Jib section	⑥ ⑦ ⑧ ⑩	17.5 17.2 17.2 17	6.2 6.2 6.2 6.2	7.4 6.7 6.7 6.5	4,222 2,476 2,314 1,215
	Trolley + Pulley block	 27.6 USt	5.9 3.9	7.4 1.4	4.7 7.8	1,676 1,874

			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Trolley + Pulley block	27.6 USt	13.5 6	7.2 1.1	3.8 7.7	2,635 1,995
Crane Tower						
	T 851	⍁ 8 ft	36.7	15.9	19	34,723
	K 85/K 85-2	⍁ 8 ft	7.3	10.7	8.2	7,937
	KM 850.10B KM 850.14B KMT 850.10A KMT 850.14A K 88/K 85A2 KM 880.10A KMT 880.10A KMT 850.10C	⍁ 8 ft	33.9 33.9 17.5 17.5 17.5 17.8 17.8 12	8.3 8.3 8.3 8.3 8.2 8.3 8.3 8.3	8.2 8.2 8.2 8.2 8.2 8.3 8.6 8.2	22,201 24,670 12,015 13,206 18,281 18,453 19,180 9,326
	Fixing angles	P 854A P 880A	3 3.3	3 3.3	4.9 6.2	2,072 3,536
	1/2 Cross girder	ZY 854	18.7	3.2	7.4	14,176
	Cross girder	ZY 854	39	4.7	7.4	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			
	10 DVF 10 Optima	fpm	0 → 217 (27.6 USt) 0 → 262 (22 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt)										10	7.4	
	RVF 173 Optima+	rpm	0 → 0.8										3 x 10	3 x 7.5	

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	132 HPL™: 142 → 90 kVA 180 HPL™ GH: 181 → 109 kVA

The reactions and mast compositions presented in this data sheet meet the specifications of EN 14439:2025 and ASME B30.3-2025 standards.
The “out of service” wind profile is determined in accordance with ASCE 7-22 and ASCE 37-25 specifications as follow:
The “standard” design wind is determined from an ultimate reference wind speed of 115 mph (185 kph) corresponding to an average recurrence interval of 700 years, calculated for an Exposure C category, and combined with a 0.85 reduction factor based on the assumption that the crane is considered as a temporary construction structure used for 2 years or less.
As a result, this “standard” wind profile is covered by the EN 14439:2025 C25 wind profile, which is used to determine all technical data provided in this document.

- Standard equipment
- Options
- Potain Plus function: Plus load curves
- Hook heights with Plus load curves
- Reactions in service
- Reactions out of service
- Total ballast weight
- Jib weight
- Lorry 44 ft
- Container High Cube 40 ft, and/or Flat Rack 20 ft
- Hoisting
- Trolleying
- 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.

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