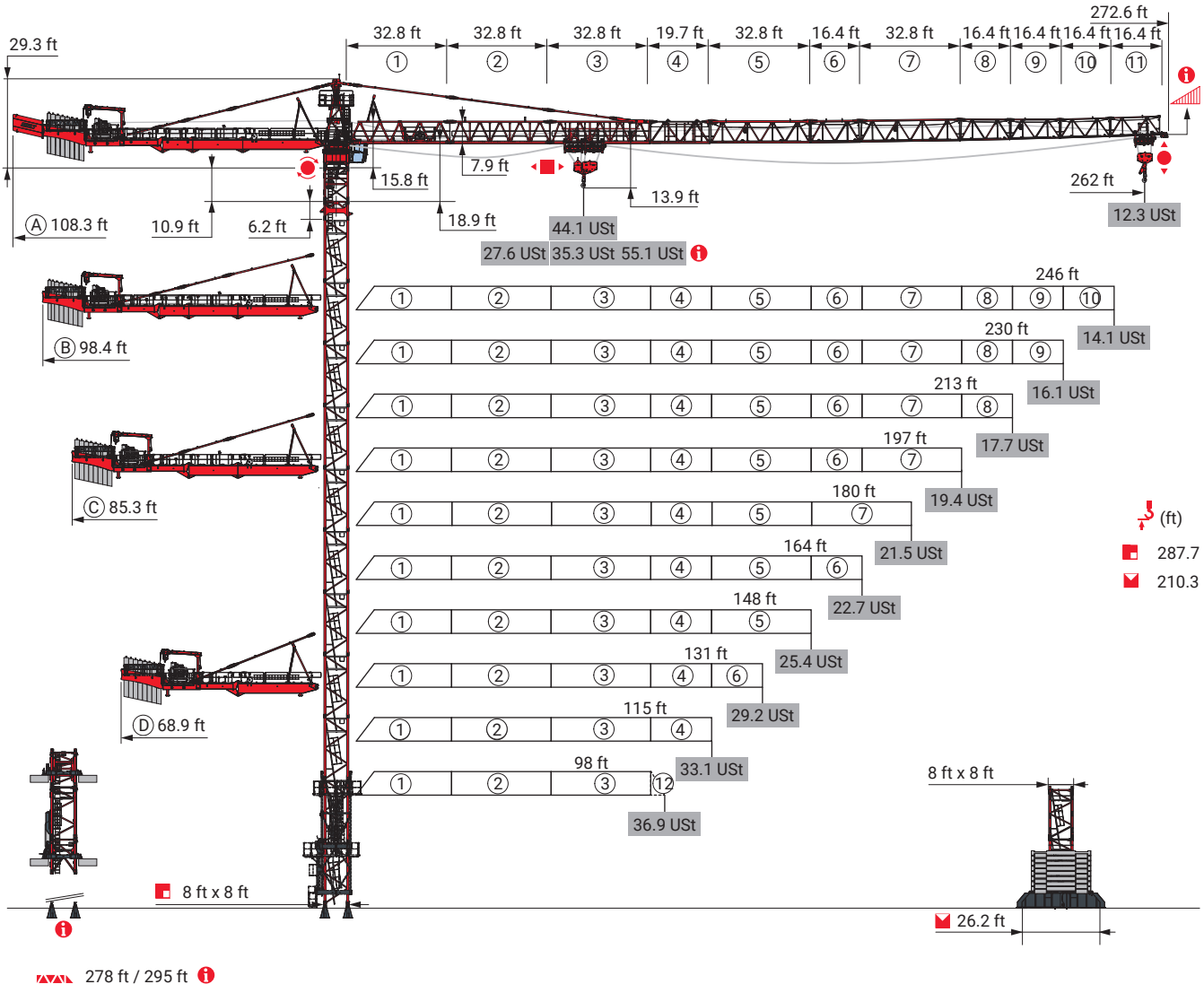
POTAIN®

MDLT 1109

ASME B30.3-2025



Potain Plus

Power Control

Top Site

Anti-collision systems

Automatic Rotation Control

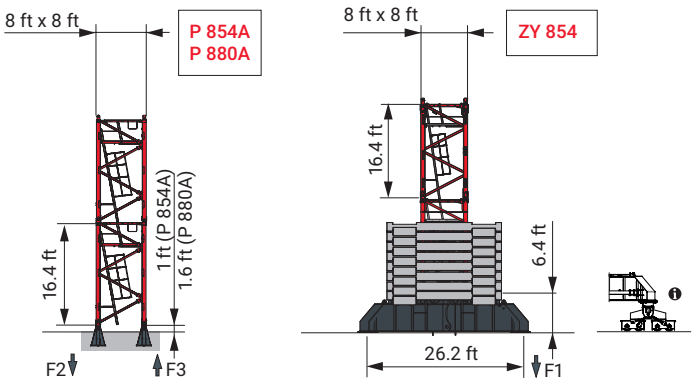
Values have been rounded.

Mast - Reactions

8 ft - P 854A	180 HPL™										
(ft)	98	115	131	148	164	180	197	213	230	246	262
(ft)	210.6	172.2	172.2	183.1	177.8	199.5	194.2	194.2	183.1	210.6	210.6
/P (ft)	210.6	172.2	172.2	161.4	177.8	166.7	188.7	188.7	183.1	199.5	210.6
10.9 ft	1	1	1	1	1	1	1	1	1	1	1
6.2 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	0	1	1	2	0	2	0	0	2	0	0
16.4 ft	12	9	9	9	10	10	11	11	9	12	12
F2 (USt) ●	446	408	411	409	408	431	429	438	431	441	447
F2 (USt) ■	305	295	311	314	327	326	335	335	336	324	329
F3 (USt) ●	310	273	271	269	287	282	300	309	302	307	312
F3 (USt) ■	191	182	194	196	206	200	206	207	207	190	194

8 ft - P 880A	180 HPL™										
(ft)	98	115	131	148	164	180	197	213	230	246	262
(ft)	287.7	276.6	271.3	282.2	276.6	282.2	282.2	271.3	271.3	276.6	276.6
/P (ft)	287.7	276.6	271.3	276.6	276.6	276.6	282.2	271.3	271.3	276.6	276.6
10.9 ft	1	1	1	1	1	1	1	1	1	1	1
6.2 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	1	0	1	2	0	2	2	1	1	0	0
16.4 ft	16	16	15	15	16	15	15	15	15	16	16
F2 (USt) ●	613	620	610	610	603	605	614	597	592	593	588
F2 (USt) ■	786	735	685	682	631	678	676	668	678	728	695
F3 (USt) ●	444	444	432	431	422	423	427	415	429	407	407
F3 (USt) ■	638	581	529	525	471	518	511	507	514	564	535

8 ft - ZY 854 -	180 HPL™										
(ft)	98	115	131	148	164	180	197	213	230	246	262
(ft)	210.3	172.2	172.2	188.7	177.5	199.5	193.9	188.7	183.1	210.3	205.1
/P (ft)	210.3	172.2	172.2	161.1	177.5	166.7	188.7	188.7	183.1	199.5	205.1
10.9 ft	1	1	1	1	1	1	1	1	1	1	1
6.2 ft	1	1	1	1	1	1	1	1	1	1	1
10.9 ft	1	2	2	2	1	0	1	2	0	1	2
16.4 ft	11	8	8	9	9	11	10	9	10	11	10
F1 (USt) ●	221	197	199	207	205	217	215	227	222	239	238
F1 (USt) ■	175	157	163	171	175	179	183	192	193	199	203



Other mast compositions - Please consult us.

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

Anchorages

Base ballast

	(USt) / 8 ft - ZY 854 - 180 HPL™										
(ft)	98	115	131	148	164	180	197	213	230	246	262
210.3	158.7									211.6	
205.1	145.5									198.4	224.9
199.5	132.3					145.5				198.4	224.9
193.9	132.3					145.5	145.5			198.4	224.9
188.7	119.1			132.3		132.3	145.5	185.2		185.2	224.9
183.1	119.1			132.3		132.3	132.3	185.2	185.2	185.2	224.9
177.5	105.8			119.1	132.3	132.3	132.3	172	185.2	185.2	211.6
172.2	105.8	105.8	105.8	119.1	119.1	132.3	132.3	172	172	185.2	211.6
155.8	92.6	105.8	105.8	119.1	119.1	119.1	132.3	158.7	158.7	172	198.4
139.4	92.6	105.8	105.8	105.8	105.8	105.8	119.1	158.7	158.7	172	198.4
123	92.6	105.8	105.8	105.8	105.8	105.8	119.1	145.5	145.5	158.7	185.2
106.6	92.6	105.8	105.8	105.8	105.8	105.8	119.1	132.3	145.5	158.7	185.2
90.2	92.6	105.8	105.8	105.8	105.8	105.8	119.1	132.3	132.3	158.7	172
73.8	92.6	105.8	105.8	105.8	105.8	105.8	119.1	119.1	132.3	158.7	172

Load curves



(ft)	72	82	98	115	131	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft
44.1 USt																					
22 USt																					
262	15.1 → 76.4	140.7 - 152.5	44.1	40.9	33.4	28	24	22	21.8	20.3	19.5	18.3	17.5	16.5	15.9	15.1	14.6	13.8	13.4	12.7	12.3	11.8	USt
	15.1 → 76.8	143.5 - 155.9	44.1	41	33.7	28.4	24.4	22	22	20.9	20	18.8	18.1	17.1	16.5	15.6	15.1	14.4	13.9	13.3	12.9	12.3	USt P+
246	15.1 → 79.7	148.8 - 161	44.1	42.7	35.1	29.6	25.5	22.2	22	21.6	20.7	19.5	18.7	17.7	17.1	16.2	15.7	14.9	14.4	13.8	USt		
	15.1 → 80.4	151.1 - 164	44.1	43.2	35.5	30	25.9	22.6	22	22	21.1	19.9	19.1	18.1	17.4	16.5	16	15.2	14.8	14.1	USt P+		
230	15.1 → 84.6	155.5 - 167.4	44.1	44.1	37.3	31.3	26.9	23.4	22.3	22	21.6	20.3	19.5	18.4	17.7	16.8	16.2	15.4	USt				
	15.1 → 87.6	161.3 - 173.9	44.1	44.1	38.8	32.7	28.1	24.5	23.3	22	22	21.1	20.3	19.2	18.5	17.5	16.9	16.1	USt P+				
213	15.1 → 87.3	160.5 - 172.8	44.1	44.1	38.6	32.5	27.9	24.3	23.1	22	22	21	20.2	19.1	18.4	17.4	USt						
	15.1 → 88.6	163.2 - 175.7	44.1	44.1	39.3	33.1	28.4	24.8	23.6	22	22	21.4	20.6	19.4	18.7	17.7	USt P+						
197	15.1 → 87.3	160.6 - 172.8	44.1	44.1	38.6	32.5	27.9	24.3	23.1	22	22	21	20.2	19.1	USt								
	15.1 → 88.6	163 - 175.5	44.1	44.1	39.3	33.1	28.4	24.8	23.6	22	22	21.4	20.5	19.4	USt P+								
180	15.1 → 86.9	160.1 - 172.3	44.1	44.1	38.5	32.4	27.8	24.3	23	22	22	20.9	USt										
	15.1 → 88.9	163.8 - 176.4	44.1	44.1	39.5	33.3	28.6	24.9	23.7	22	22	21.5	USt P+										
164	15.1 → 89.6		44.1	44.1	39.7	33.5	28.7	25.1	23.8	22.2	USt												
	15.1 → 91.5		44.1	44.1	40.7	34.2	29.4	25.7	24.4	22.7	USt P+												
148	15.1 → 88.6		44.1	44.1	39.3	33.1	28.4	24.8	USt														
	15.1 → 90.2		44.1	44.1	40.1	33.8	29	25.4	USt P+														
131	15.1 → 90.9		44.1	44.1	40.4	34	29.2	USt															
	15.1 → 90.9		44.1	44.1	40.4	34	29.2	USt P+															
115	15.1 → 88.6		44.1	44.1	39.3	33.1	USt																
	15.1 → 88.6		44.1	44.1	39.3	33.1	USt P+																
98	15.1 → 84		44.1	44.1	36.9	USt																	
	15.1 → 84		44.1	44.1	36.9	USt P+																	

= - 2.04 USt max.



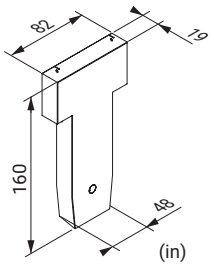
(ft)	72	82	98	115	131	148	154	164	171	180	187	197	203	213	220	230	236	246	253	262	ft
44.1 USt																					
22 USt																					
262	12.5 → 76.4	140 - 143	44.1	40.8	33.3	27.9	23.8	21.2	20.2	18.7	17.8	16.6	15.9	14.9	14.3	13.4	12.9	12.2	11.7	11.1	10.7	10.1	USt
	12.5 → 76.8	142.8 - 145.9	44.1	41	33.6	28.3	24.3	21.8	20.7	19.2	18.4	17.2	16.5	15.5	14.9	14	13.5	12.7	12.3	11.7	11.3	10.7	USt P+
246	12.5 → 79.1	147.2 - 150.4	44.1	42.4	34.8	29.3	25.2	22	21.4	19.9	19	17.8	17.1	16	15.4	14.5	14	13.2	12.8	12.1	USt		
	12.5 → 80.1	149.5 - 152.8	44.1	42.9	35.2	29.7	25.6	22.4	21.8	20.3	19.4	18.2	17.4	16.4	15.8	14.9	14.3	13.6	13.1	12.5	USt P+		
230	12.5 → 83.7	152.8 - 156	44.1	44.1	36.8	30.9	26.4	23	22	20.8	19.8	18.5	17.7	16.6	16	15	14.5	13.7	USt				
	12.5 → 86.9	158.4 - 161.9	44.1	44.1	38.3	32.2	27.6	24	22.8	21.7	20.7	19.4	18.5	17.4	16.7	15.7	15.2	14.3	USt P+				
213	12.5 → 86.6	159 - 162.5	44.1	44.1	38.3	32.2	27.6	24.1	22.9	21.8	20.8	19.5	18.6	17.5	16.8	15.9	USt						
	12.5 → 88.3	161.7 - 165.2	44.1	44.1	39.1	32.8	28.2	24.6	23.3	22	21.2	19.9	19	17.9	17.2	16.2	USt P+						
197	12.5 → 86.9	159.1 - 162.5	44.1	44.1	38.4	32.2	27.7	24.1	22.9	21.8	20.8	19.5	18.7	17.5	USt								
	12.5 → 88.3	161.5 - 165	44.1	44.1	39	32.8	28.2	24.5	23.3	22	21.2	19.8	19	17.9	USt P+								
180	12.5 → 86.9	159.9 - 163.4	44.1	44.1	38.4	32.4	27.8	24.2	23	21.9	21	19.6	USt										
	12.5 → 88.9	163.7 - 167.3	44.1	44.1	39.5	33.2	28.5	24.9	23.7	22	21.5	20.2	USt P+										
164	12.5 → 89.6		44.1	44.1	39.7	33.5	28.7	25.1	23.8	22.2	USt												
	12.5 → 91.5		44.1	44.1	40.7	34.2	29.4	25.7	24.4	22.7	USt P+												
148	12.5 → 88.6		44.1	44.1	39.3	33.1	28.4	24.8	USt														
	12.5 → 90.2		44.1	44.1	40.1	33.8	29	25.4	USt P+														
131	12.5 → 90.9		44.1	44.1	40.4	34	29.2	USt															
	12.5 → 90.9		44.1	44.1	40.4	34	29.2	USt P+															
115	12.5 → 88.6		44.1	44.1	39.3	33.1	USt																
	12.5 → 88.6		44.1	44.1	39.3	33.1	USt P+																
98	12.5 → 84		44.1	44.1	36.9	USt																	
	12.5 → 84		44.1	44.1	36.9	USt P+																	

= - 0.57 USt max.

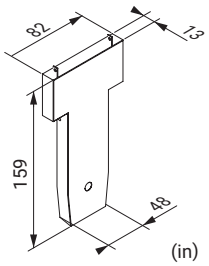
Counter-jib ballast

	180 HPL™			320 LVF			320 LVF GH		
	14,551 lb	10,362 lb	(lb)	14,551 lb	10,362 lb	(lb)	14,551 lb	10,362 lb	(lb)
262 ft	7	1	112,219	7	1	112,219	6	2	108,030
246 ft	6	2	108,030	6	2	108,030	5	3	103,841
230 ft	6	2	108,030	6	2	108,030	7	0	101,857
213 ft	7	0	101,857	7	0	101,857	6	1	97,668
197 ft	8	0	116,408	8	0	116,408	7	1	112,219
180 ft	5	3	103,841	5	3	103,841	6	1	97,668
164 ft	7	0	101,857	4	4	99,652	6	1	97,668
148 ft	4	3	89,290	4	3	89,290	5	1	83,117
131 ft	8	0	116,408	8	0	116,408	7	1	112,219
115 ft	5	3	103,841	5	3	103,841	7	0	101,857
98 ft	6	0	87,306	6	0	87,306	5	1	83,117

CCP - 14,551 lb



CCQ - 10,362 lb

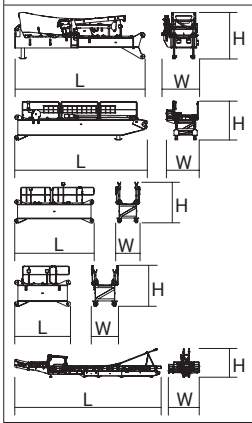
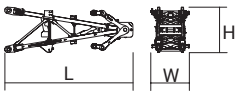
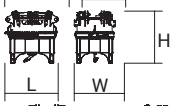
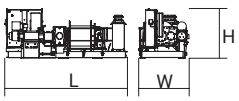
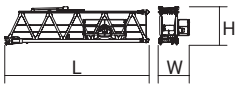
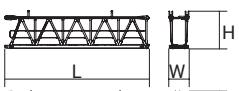
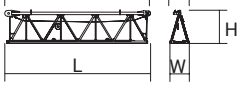
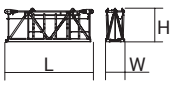
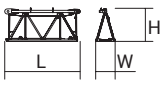
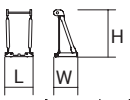
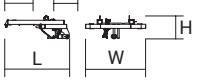


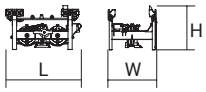
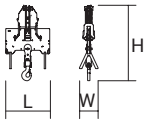
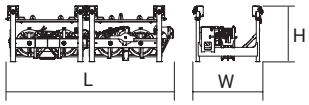
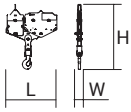
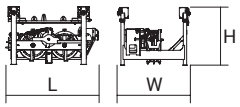
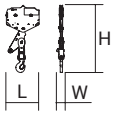
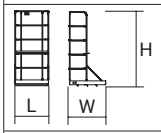
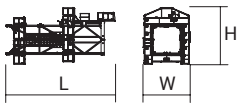
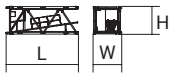
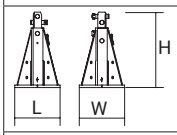
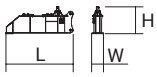
Dimensions and weight

Slewing crane part - : 262 ft - - 180 HPL™

x 14

x 13

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Counter-jib		25.8	7.3	9.2	21,164
			27.4	6.6	8	16,094
			17.6	5.3	9	10,097
			11	5.4	7.9	6,790
		Ⓐ	102.2	21.9	20.3	70,989
		Ⓑ	93.2	21.9	20.3	70,107
		Ⓒ	83.4	21.9	20.1	60,848
		Ⓓ	67	21.9	20.2	48,502
	Cathead		20.7	6.2	7.3	17,857
	Cab	Ultra View	11	7.5	8.2	6,614
	Towerhead	⍁ 8 ft	9.8	9.5	9.9	37,038
			23.5	9.8	9.9	43,652
	Hoisting winch (+ rope)	180 HPL™	16.2	6.6	6.6	20,459
		320 LVF	16.8	7.3	7.3	21,437
		320 LVF GH	18.4	7.2	7.8	31,150
	Jib section	① 15 DVF	34.2	7.4	8.9	20,062
	Jib section	②	34.1	4.5	9.1	15,212
		③	34	4.5	7.9	16,314
		⑤	34.4	4.5	7.8	11,023
		⑦	33.9	4.5	7.5	7,011
	Jib section	④	20.9	4.5	7.9	8,774
		⑥	17.8	4.5	7.7	4,850
		⑧	17.3	4.5	7.3	2,998
		⑨	17.3	4.5	6.8	2,183
		⑩	17.3	4.5	6.7	1,962
		⑪	17.1	4.5	6.4	1,775
		⑫	4.5	3.3	7.3	1,303
			5.5	5.2	1.9	728

			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Trolley	44.1 USt	8.6	5.7	5.2	2,678
	Pulley block	44.1 USt	6.2	2.6	10.4	3,120
	Trolley	44.1 USt	13.8	5.9	4.9	3,219
	Pulley block	44.1 USt	7.5	1.1	9.7	2,888
	Trolley	22 USt	6.9	5.9	4.9	1,720
	Pulley block	22 USt	5	1.1	10	1,786
	Trolley inspection platform		3.1	3.4	7	125
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	
	180 HPL™100	fpm	107	131	174	274	323	53	66	89	143	161	180	132	1,745 ft
		USt	22	16.5	11	5.5	4	44.1	33.1	22	11	8.9			
	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	kVA
480 V (+6% -10%) 60 Hz	180 HPL™: 194 → 122 kVA 320 LVF: 306 → 178 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.

- Jib elevation
- 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
- 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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Ref. 02D_ASMEB30.3_MDLT1109_2023_12-5
MDLT 1109

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