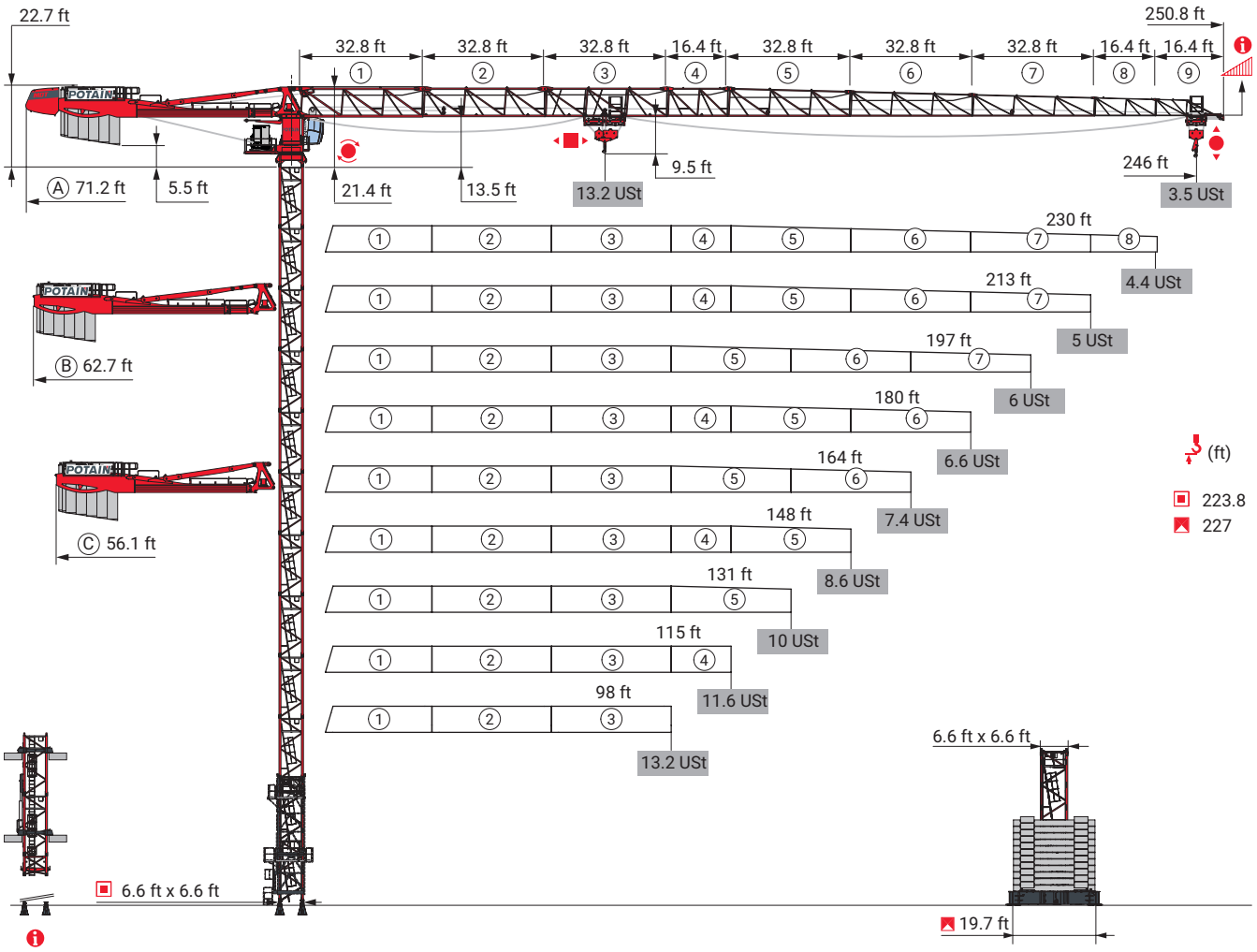
POTAIN®

MDT 349 L12

ASME B30.3-2025



Potain Plus

Power Control

Top Site

Anti-collision systems

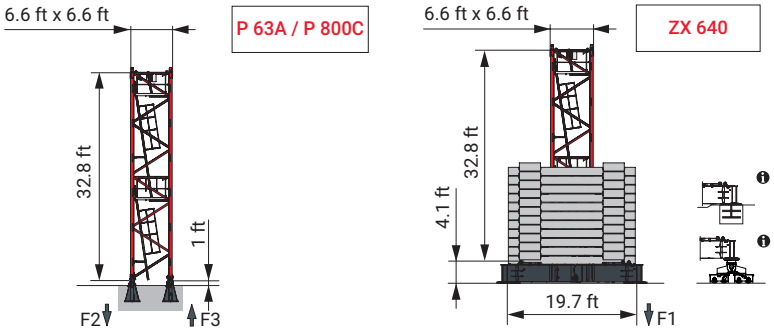
Automatic Rotation Control

Values have been rounded.

Mast - Reactions

6.6 ft - P 63A											
(ft)		98	115	131	148	164	180	197	213	230	246
(ft)		223.8	223.8	223.8	218.5	218.5	218.5	223.8	223.8	218.5	218.5
/P+ (ft)		223.8	223.8	223.8	218.5	218.5	218.5	223.8	223.8	218.5	218.5
10.9 ft		2	2	2	0	0	0	2	2	0	0
16.4 ft		10	10	10	11	11	11	10	10	11	11
32.8 ft		1	1	1	1	1	1	1	1	1	1
F2 (USt)	●	259	267	268	262	264	265	274	278	279	277
	■	344	350	351	325	333	336	364	377	362	373
F3 (USt)	●	196	202	202	195	197	197	206	209	211	208
	■	288	292	292	265	272	275	303	315	300	310

6.6 ft - ZX 640 -											
(ft)		98	115	131	148	164	180	197	213	230	246
(ft)		227	227	227	221.5	221.5	221.5	227	227	221.5	221.5
/P+ (ft)		227	227	227	221.5	221.5	221.5	227	227	221.5	221.5
10.9 ft		2	2	2	0	0	0	2	2	0	0
16.4 ft		10	10	10	11	11	11	10	10	11	11
32.8 ft		1	1	1	1	1	1	1	1	1	1
F1 (USt)	●	153	156	157	158	157	160	165	167	167	167
	■	203	207	207	191	195	197	215	223	214	220



Other mast compositions - Please consult us.

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

Anchorages

Base ballast

(USt) / 6.6 ft - ZX 640 -

(ft)	98	115	131	148	164	180	197	213	230	246
227	187.4	187.4	187.4				209.4	209.4		
221.5	176.4	176.4	176.4	198.4	187.4	198.4	198.4	198.4	209.4	209.4
205.1	154.3	154.3	154.3	165.4	165.4	165.4	165.4	165.4	187.4	187.4
188.7	132.3	132.3	132.3	143.3	143.3	143.3	143.3	143.3	154.3	154.3
172.2	110.2	110.2	110.2	121.3	121.3	121.3	121.3	110.2	121.3	121.3
155.8	88.2	88.2	88.2	88.2	88.2	88.2	88.2	88.2	99.2	99.2
139.4	66.1	66.1	66.1	66.1	66.1	66.1	66.1	66.1	77.2	77.2
123	55.1	66.1	66.1	55.1	55.1	55.1	55.1	55.1	66.1	66.1
106.6	55.1	66.1	66.1	55.1	55.1	44.1	44.1	44.1	55.1	55.1
90.6	55.1	66.1	66.1	55.1	55.1	44.1	44.1	44.1	55.1	55.1
74.2	55.1	66.1	66.1	55.1	55.1	44.1	44.1	44.1	55.1	55.1

Load curves

(ft)			72	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	ft
	13.2 USt	6.6 USt																						
246	10.2 → 73.6	130.7 - 142	13.2	10.6	9.4	8.7	7.8	7.3	6.6	6.6	6.3	6	5.6	5.3	5	4.8	4.4	4.2	4	3.8	3.5	3.4	3.2	USt
	10.2 → 75.4	134 - 145.5	13.2	10.9	9.7	8.9	8	7.5	6.8	6.6	6.5	6.2	5.7	5.5	5.1	4.9	4.6	4.4	4.2	4	3.8	3.7	3.5	USt P+
230	10.2 → 78.8	140.1 - 151.7	13.2	11.5	10.2	9.4	8.4	7.9	7.2	6.8	6.6	6.5	6	5.7	5.3	5.1	4.8	4.5	4.3	4.1	3.8	USt		
	10.2 → 83.9	149.3 - 161.7	13.2	12.4	10.9	10.1	9.1	8.5	7.8	7.3	6.7	6.6	6.5	6.2	5.8	5.6	5.3	5.1	4.8	4.6	4.4	USt P+		
213	10.2 → 83.2	149.3 - 161.3	13.2	12.3	10.9	10.1	9.1	8.5	7.7	7.3	6.7	6.6	6.5	6.2	5.7	5.5	5.1	4.9	4.6	USt				
	10.2 → 88	157.9 - 170.6	13.2	13.1	11.6	10.8	9.7	9.1	8.3	7.8	7.2	6.8	6.6	6.6	6.2	5.9	5.6	5.3	5	USt P+				
197	10.2 → 87.9	158.6 - 170.8	13.2	13.1	11.6	10.8	9.7	9.1	8.3	7.8	7.2	6.8	6.6	6.6	6.2	6	5.6	USt						
	10.2 → 92.3	166.6 - 180.4	13.2	13.2	12.3	11.4	10.3	9.7	8.8	8.3	7.7	7.3	6.7	6.6	6.6	6.3	6	USt P+						
180	10.2 → 90.1	162.6 - 175.2	13.2	13.2	12	11.1	10	9.4	8.6	8.1	7.4	7.1	6.6	6.6	6.4	USt								
	10.2 → 95.5	172.4 - 180.4	13.2	13.2	12.8	11.9	10.7	10	9.2	8.7	8	7.6	7	6.7	6.6	USt P+								
164	10.2 → 94.3		13.2	13.2	12.6	11.7	10.6	9.9	9.1	8.6	7.9	7.5	7	USt										
	10.2 → 98.7		13.2	13.2	13.2	12.3	11.1	10.4	9.5	9	8.3	7.9	7.3	USt P+										
148	10.2 → 96.6		13.2	13.2	13	12	10.9	10.2	9.3	8.8	8.1	USt												
	10.2 → 101		13.2	13.2	13.2	12.7	11.4	10.7	9.8	9.3	8.5	USt P+												
131	10.2 → 97.6		13.2	13.2	13.1	12.2	11	10.3	9.4	USt														
	10.2 → 102.5		13.2	13.2	13.2	12.9	11.6	10.9	10	USt P+														
115	10.2 → 97.2		13.2	13.2	13	12.1	11	USt																
	10.2 → 101.6		13.2	13.2	13.2	12.7	11.5	USt P+																
98	10.2 → 98		13.2	13.2	13.2	USt																		
	10.2 → 98		13.2	13.2	13.2	USt P+																		

= - 0.67 USt max.

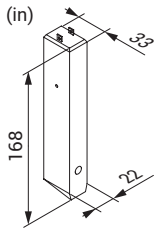
(ft)			72	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	220	230	236	246	ft
	13.2 USt	6.6 USt																						
246	7.9 → 73.9	131.8 - 134.7	13.2	10.7	9.4	8.7	7.8	7.3	6.6	6.4	5.9	5.6	5.2	4.9	4.6	4.3	4	3.8	3.5	3.4	3.1	2.95	2.75	USt
	7.9 → 75.7	135.1 - 138.1	13.2	11	9.7	9	8.1	7.6	6.9	6.6	6.1	5.8	5.3	5.1	4.7	4.5	4.2	4	3.8	3.6	3.4	3.3	3.1	USt P+
230	7.9 → 78.8	141 - 144.4	13.2	11.6	10.2	9.5	8.5	8	7.2	6.8	6.4	6.1	5.6	5.4	4.9	4.7	4.4	4.2	3.9	3.7	3.4	USt		
	7.9 → 83.9	150.3 - 154.2	13.2	12.4	11	10.2	9.2	8.6	7.8	7.4	6.8	6.6	6.1	5.8	5.4	5.2	4.9	4.7	4.4	4.2	4	USt P+		
213	7.9 → 83.6	150.4 - 154.2	13.2	12.4	11	10.2	9.2	8.6	7.8	7.4	6.8	6.6	6.1	5.8	5.4	5.1	4.7	4.5	4.2	USt				
	7.9 → 88.6	159.1 - 162.8	13.2	13.2	11.7	10.8	9.8	9.2	8.3	7.9	7.2	6.9	6.6	6.3	5.8	5.6	5.2	5	4.6	USt P+				
197	7.9 → 88.6	159.9 - 164	13.2	13.2	11.7	10.9	9.8	9.2	8.4	7.9	7.3	6.9	6.6	6.3	5.9	5.6	5.3	USt						
	7.9 → 92.7	168 - 171.9	13.2	13.2	12.4	11.5	10.4	9.7	8.9	8.4	7.7	7.3	6.8	6.6	6.2	6	5.6	USt P+						
180	7.9 → 90.5	163.9 - 167.8	13.2	13.2	12	11.2	10.1	9.5	8.6	8.1	7.5	7.1	6.6	6.5	6.1	USt								
	7.9 → 95.9	173.8 - 177.9	13.2	13.2	12.8	11.9	10.8	10.1	9.2	8.7	8	7.6	7.1	6.8	6.5	USt P+								
164	7.9 → 94.7		13.2	13.2	12.7	11.8	10.7	10	9.2	8.7	8	7.6	7.1	USt										
	7.9 → 99.2		13.2	13.2	13.2	12.4	11.2	10.5	9.6	9.1	8.4	7.9	7.4	USt P+										
148	7.9 → 97		13.2	13.2	13	12.1	10.9	10.2	9.4	8.8	8.2	USt												
	7.9 → 101.7		13.2	13.2	13.2	12.7	11.5	10.8	9.9	9.3	8.6	USt P+												
131	7.9 → 98.4		13.2	13.2	13.2	12.2	11.1	10.4	9.5	USt														
	7.9 → 102.9		13.2	13.2	13.2	12.9	11.7	11	10	USt P+														
115	7.9 → 97.7		13.2	13.2	13.1	12.2	11	USt																
	7.9 → 102.1		13.2	13.2	13.2	12.8	11.6	USt P+																
98	7.9 → 98.4		13.2	13.2	13.2	USt																		
	7.9 → 98.4		13.2	13.2	13.2	USt P+																		

= - 0.19 USt max.

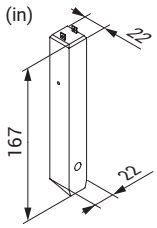
Jib weight and counter-jib ballast

	(lb) (+/- 5%)								
				10,141 lb	3,373 lb	(lb)	6,768 lb	3,373 lb	(lb)
246 ft	39,840	38,964	39,996	5	2	57,452	8	1	57,519
230 ft	39,253	38,411	39,388	5	2	57,452	8	1	57,519
213 ft	38,402	37,626	38,603	5	2	57,452	8	1	57,519
197 ft	36,363	35,653	36,520	5	1	54,079	8	0	54,146
180 ft	36,387	35,677	36,544	5	1	54,079	8	0	54,146
164 ft	34,595	33,885	34,751	5	2	57,452	8	1	57,519
148 ft	34,013	33,303	34,169	5	2	57,452	8	1	57,519
131 ft	32,221	31,511	32,377	5	0	50,706	7	1	50,750
115 ft	31,052	30,342	31,209	4	2	47,311	7	0	47,377
98 ft	29,205	28,495	29,361	4	1	43,938	6	1	43,982

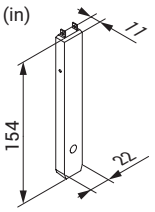
CBS - 10,141 lb



CBU - 6,768 lb



CBY - 3,373 lb

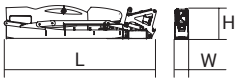
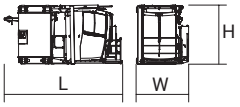
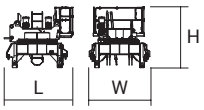
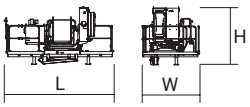
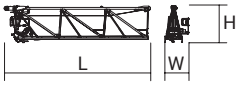
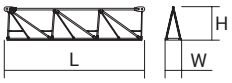
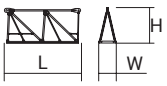
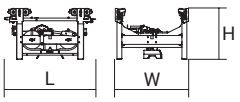
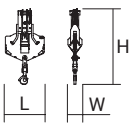
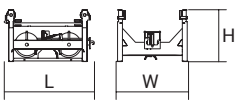
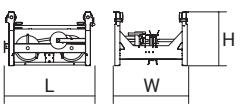
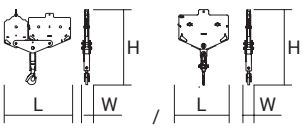


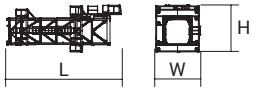
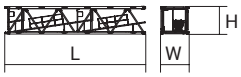
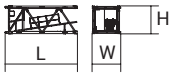
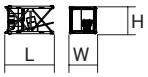
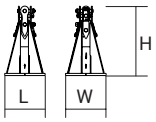
Dimensions and weight

Slewing crane part - : 246 ft - - 90 HPL™

x 6

x 6

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Counter-jib	Ⓐ Ⓑ Ⓒ	39.4 39.4 39.4	4.1 4.1 4.1	8.2 8.2 8.2	31,107 29,983 25,441
	Cab mast + cab	Ultra View	16.5	7.3	8.2	14,815
	Towerhead	6.6 ft	9.7	8.1	8.2	16,799
	Hoisting winch (+ rope)	90 HPL™	14	7.5	7.6	9,921
	Jib section	① 6 DVF	35.3	5.9	9	12,015
	Jib section	② ③ ⑤ ⑥ ⑦	33.5 33.8 33.5 33.6 33.4	3.9 3.9 3.9 3.9 3.9	8.2 7.9 7.8 6.9 6	6,934 5,335 3,439 2,723 2,094
	Jib section	④ ⑧ ⑨	17.3 16.7 16.7	3.9 3.9 3.9	7.8 5 4.6	2,116 683 485
	Trolley	13.2 USt	6.1	5	3.4	882
	Pulley block	13.2 USt	3.9	1.4	7.6	1,003
	Trolley	13.2 USt	5.2	5	3.2	463
	Trolley	13.2 USt 6.6 USt	5.6 6.1	5 5	3.4 3.2	540 520
	Pulley block	13.2 USt 6.6 USt	5.4 3.6	0.7 0.9	5.8 5.3	992 584

Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	T 61	⍁ 6.6 ft	35.5	13.6	14.7	21,385
	K 649B KM 649E KRM 6410B	⍁ 6.6 ft	33.6 33.8 33.6	6.8 6.7 6.9	6.7 6.7 6.8	11,663 10,692 15,653
	K 649A KMT 649A KR 649A KRMT 649A	⍁ 6.6 ft	17.2 17.2 17.2 17.2	6.8 6.8 6.9 6.9	6.7 6.7 6.8 6.8	6,184 5,666 7,165 6,724
	KRMT 649C	⍁ 6.6 ft	11.7	6.9	6.8	5,401
	Fixing angles	P 63A / P 800C	2.5	2.5	4.2	1,025
	1/2 Cross girder	ZX 640	14.3	3.3	5.1	7,319
	Cross girder	ZX 640	30	3.9	5.1	15,168

Mechanisms

480 V - 60 Hz												hp	kW	
	90 HPL™ 30	fpm	176	228	326	469	723	90	120	172	244	361	90	66	2,772 ft
		USt	6.6	5	3.3	1.7	0.2	13.2	9.9	6.6	3.3	0.9			
	6 DVF 6 Optima	fpm	0 → 138 (13.2 USt)					0 → 276 (8.8 USt)				0 → 328 (4.4 USt)	5.5	4	
	RVF 172 Optima+	rpm	0 → 0.9										2 x 10	2 x 7.5	

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	96 → 60 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
- 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.

© 2026 The Manitowoc Company, Inc.
Ref. 02D_ASMEB30.3_MDT349L12_2017_28-11
MDT 349 L12