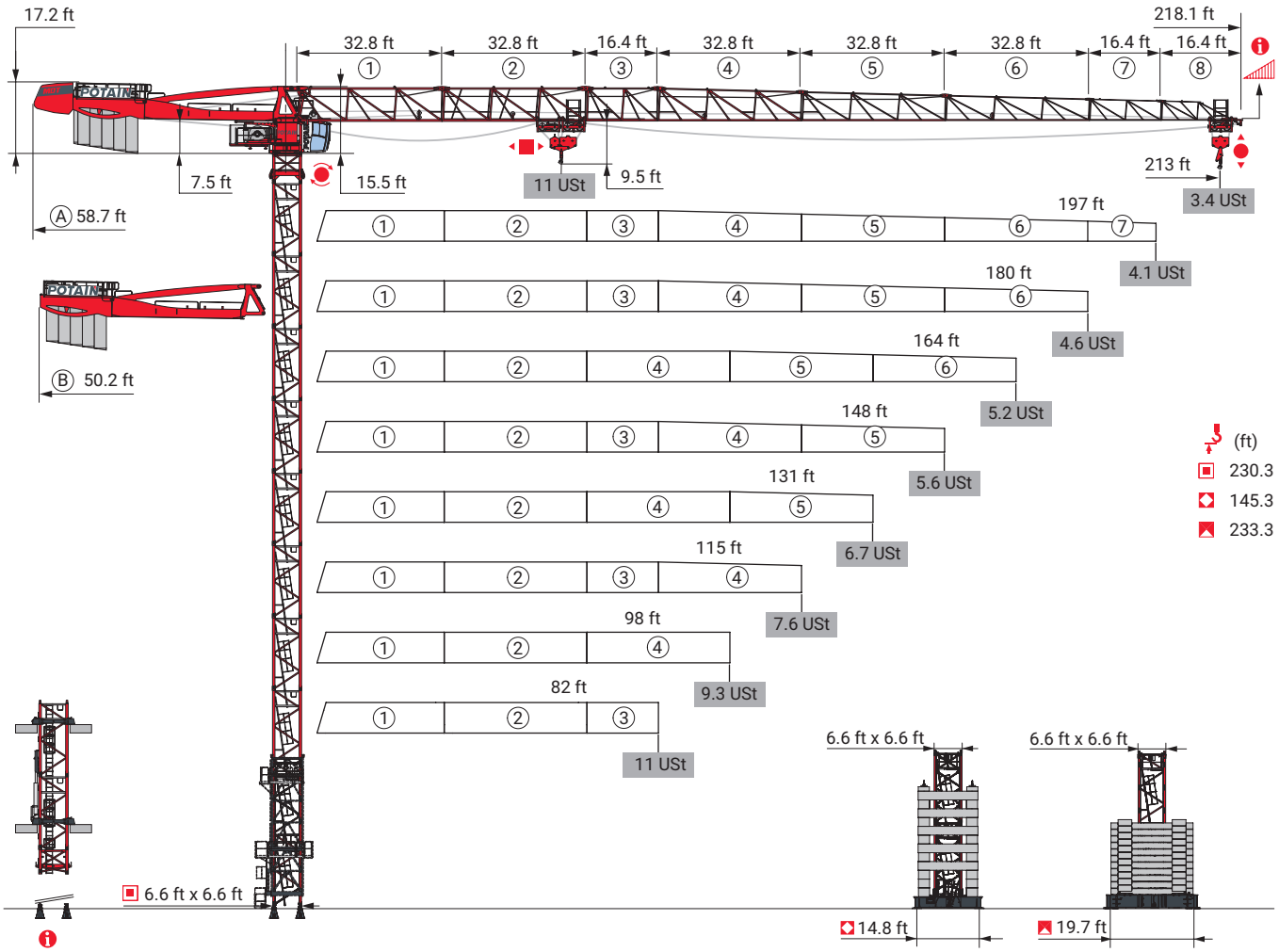
POTAIN®

MDT 259 J10

ASME B30.3-2025



Potain Plus

Power Control

Top Site

Anti-collision systems

Automatic Rotation Control

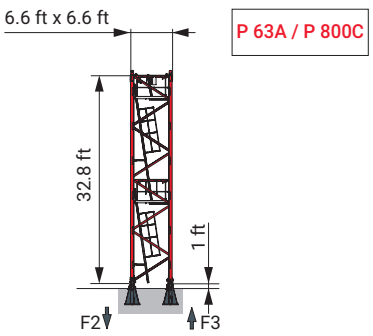
Values have been rounded.

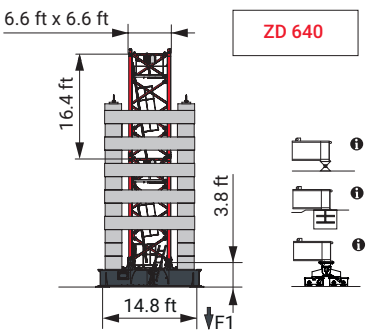
Mast - Reactions

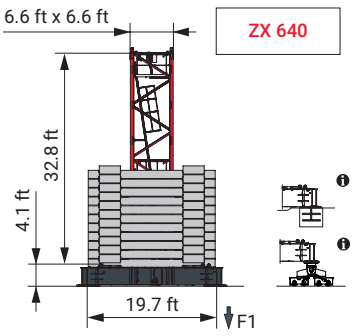
6.6 ft - P 63A									
(ft)	82	98	115	131	148	164	180	197	213
(ft)	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3
/P+ (ft)	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3	230.3
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	1	1	1	1	1	1	1	1	1
16.4 ft	11	11	11	11	11	11	11	11	11
32.8 ft	1	1	1	1	1	1	1	1	1
F2 (USt) ●	230	233	240	244	247	246	249	255	256
F2 (USt) ■	382	384	392	390	401	400	402	399	407
F3 (USt) ●	181	183	188	191	193	191	192	197	198
F3 (USt) ■	338	339	346	342	352	352	351	347	355

6.6 ft - ZD 640 -									
(ft)	82	98	115	131	148	164	180	197	213
(ft)	145.3	145.3	145.3	145.3	145.3	145.3	145.3	134.5	140.1
/P+ (ft)	145.3	145.3	145.3	145.3	145.3	145.3	145.3	134.5	140.1
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	2	2	2	2	2	2	2	1	0
16.4 ft	7	7	7	7	7	7	7	7	8
F1 (USt) ●	106	107	111	112	113	113	113	108	112
F1 (USt) ■	104	104	109	108	111	111	111	98	107

6.6 ft - ZX 640 -									
(ft)	82	98	115	131	148	164	180	197	213
(ft)	233.3	233.3	233.3	233.3	233.3	233.3	233.3	233.3	228
/P+ (ft)	233.3	233.3	233.3	233.3	233.3	233.3	233.3	233.3	228
6.6 ft	1	1	1	1	1	1	1	1	1
10.9 ft	1	1	1	1	1	1	1	1	2
16.4 ft	11	11	11	11	11	11	11	11	10
32.8 ft	1	1	1	1	1	1	1	1	1
F1 (USt) ●	154	152	158	156	161	160	162	162	157
F1 (USt) ■	232	232	237	235	241	242	242	240	232







Other mast compositions - Please consult us.

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

Anchorages

Base ballast

(USt) / 6.6 ft - ZD 640 -

(ft) \ (ft)	82	98	115	131	148	164	180	197	213
145.3	132.3	132.3	137.8	137.8	137.8	137.8	137.8		
140.1	132.3	132.3	132.3	132.3	132.3	132.3	132.3		137.8
134.5	121.3	121.3	121.3	121.3	121.3	121.3	121.3	132.3	132.3
118.1	99.2	99.2	99.2	99.2	99.2	99.2	99.2	110.2	99.2
101.7	77.2	88.2	77.2	88.2	77.2	77.2	77.2	77.2	77.2
85.3	77.2	88.2	77.2	88.2	77.2	77.2	66.1	66.1	66.1
68.9	77.2	88.2	77.2	88.2	77.2	77.2	66.1	55.1	66.1

(USt) / 6.6 ft - ZX 640 -

(ft) \ (ft)	82	98	115	131	148	164	180	197	213
233.3	242.5	231.5	242.5	231.5	242.5	242.5	242.5	231.5	
228	220.5	220.5	220.5	220.5	220.5	220.5	220.5	220.5	220.5
211.6	176.4	176.4	176.4	176.4	176.4	176.4	176.4	187.4	187.4
195.2	143.3	143.3	143.3	143.3	143.3	143.3	143.3	154.3	154.3
178.8	121.3	110.2	121.3	121.3	121.3	121.3	121.3	132.3	132.3
162.4	99.2	88.2	99.2	99.2	99.2	99.2	99.2	110.2	110.2
146	77.2	77.2	77.2	77.2	77.2	77.2	77.2	88.2	77.2
129.6	55.1	55.1	55.1	55.1	55.1	55.1	55.1	66.1	66.1
113.2	44.1	44.1	44.1	44.1	33.1	33.1	33.1	44.1	44.1
96.8	33.1	33.1	33.1	33.1	33.1	33.1	22.1	22.1	33.1
80.4	33.1	33.1	33.1	33.1	33.1	33.1	22.1	22.1	22.1
64	33.1	33.1	33.1	33.1	33.1	33.1	22.1	22.1	22.1

Load curves



(ft)			66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft
	11 USt	5.5 USt																				
213	10 → 69	123 - 133	11	10.4	9	8.2	7.2	6.7	6	5.6	5.5	5.3	4.9	4.6	4.3	4.1	3.9	3.7	3.5	3.3	3.2	USt
	10 → 75	133 - 144	11	11	9.9	9	8	7.4	6.6	6.2	5.6	5.5	5.3	5.1	4.7	4.5	4.2	4	3.8	3.6	3.4	USt P+
197	10 → 73	130 - 141	11	11	9.6	8.8	7.7	7.2	6.4	6	5.5	5.5	5.2	5	4.6	4.4	4.1	4	3.7	USt		
	10 → 79	141 - 152	11	11	10.6	9.7	8.5	7.9	7.1	6.6	6	5.7	5.5	5.4	5.1	4.8	4.5	4.3	4.1	USt P+		
180	10 → 74	134 - 144	11	11	9.8	9	8	7.4	6.6	6.2	5.6	5.5	5.3	5.1	4.7	4.5	4.2	USt				
	10 → 81	145 - 155	11	11	10.5	9.9	8.8	8.1	7.3	6.8	6.2	5.9	5.5	5.5	5.2	4.9	4.6	USt P+				
164	10 → 74	134 - 144	11	11	9.9	9	8	7.4	6.7	6.2	5.7	5.5	5.4	5.1	4.7	USt						
	10 → 81	145 - 156	11	11	10.9	9.9	8.8	8.2	7.3	6.9	6.2	5.9	5.5	5.5	5.2	USt P+						
148	10 → 76	137 - 148	11	11	10.1	9.2	8.2	7.6	6.8	6.4	5.8	5.5	5.5	USt								
	10 → 82		11	11	11	10.2	9	8.3	7.5	7	6.4	6	5.5	USt P+								
131	10 → 79		11	11	10.5	9.6	8.5	7.9	7.1	6.7	6.1	USt										
	10 → 85		11	11	11	10.6	9.4	8.7	7.8	7.3	6.7	USt P+										
115	10 → 76		11	11	10.1	9.2	8.2	7.6	6.8	USt												
	10 → 82		11	11	11	10.2	9	8.3	7.5	USt P+												
98	10 → 78		11	11	10.3	9.5	8.4	USt														
	10 → 84		11	11	11	10.4	9.2	USt P+														
82	10 → 78		11	11	10.4	USt																
	10 → 82		11	11	10.9	USt P+																

= - 0.53 USt max.



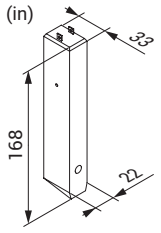
(ft)			66	72	82	89	98	105	115	121	131	138	148	154	164	171	180	187	197	203	213	ft
	11 USt	5.5 USt																				
213	8 → 69	124 - 127	11	10.5	9.1	8.3	7.3	6.8	6.1	5.7	5.3	5	4.6	4.3	4	3.8	3.5	3.4	3.2	3	2.85	USt
	8 → 75	134 - 137	11	11	10	9.1	8	7.4	6.7	6.2	5.7	5.3	5	4.8	4.4	4.2	3.9	3.7	3.5	3.3	3.1	USt P+
197	8 → 73	132 - 135	11	11	9.7	8.8	7.8	7.2	6.5	6.1	5.5	5.3	4.9	4.7	4.3	4.1	3.8	3.6	3.4	USt		
	8 → 79	142 - 145	11	11	10.6	9.7	8.6	8	7.2	6.7	6.1	5.7	5.3	5.1	4.7	4.5	4.2	4	3.8	USt P+		
180	8 → 75	135 - 138	11	11	9.9	9.1	8	7.5	6.7	6.3	5.7	5.5	5.1	4.8	4.5	4.3	4	USt				
	8 → 81	146 - 149	11	11	10.6	10	8.8	8.2	7.4	6.9	6.3	5.9	5.5	5.2	4.9	4.7	4.4	USt P+				
164	8 → 75	136 - 138	11	11	9.9	9.1	8.1	7.5	6.7	6.3	5.7	5.5	5.1	4.8	4.5	USt						
	8 → 81	147 - 150	11	11	10.9	10	8.9	8.2	7.4	6.9	6.3	6	5.5	5.2	4.9	USt P+						
148	8 → 76	139 - 141	11	11	10.2	9.3	8.3	7.7	6.9	6.5	5.9	5.5	5.2	USt								
	8 → 83		11	11	11	10.3	9.1	8.4	7.6	7.1	6.5	6.1	5.6	USt P+								
131	8 → 79		11	11	10.6	9.7	8.6	8	7.2	6.7	6.1	USt										
	8 → 86		11	11	11	10.7	9.5	8.8	7.9	7.4	6.7	USt P+										
115	8 → 76		11	11	10.2	9.3	8.2	7.6	6.9	USt												
	8 → 83		11	11	11	10.2	9.1	8.4	7.6	USt P+												
98	8 → 78		11	11	10.4	9.5	8.5	USt														
	8 → 85		11	11	11	10.5	9.3	USt P+														
82	8 → 79		11	11	10.5	USt																
	8 → 82		11	11	11	USt P+																

= - 0.15 USt max.

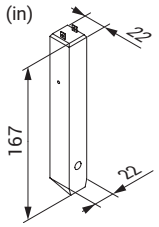
Jib weight and counter-jib ballast

	(lb) (+/- 5%)								
				10,141 lb	3,373 lb	(lb)	6,768 lb	3,373 lb	(lb)
213 ft	27,472	26,863	27,672	5	1	54,079	7	2	54,123
197 ft	26,978	26,369	27,179	5	1	54,079	7	2	54,123
180 ft	26,131	25,589	26,288	5	0	50,706	7	1	50,750
164 ft	24,273	23,731	24,429	4	1	43,938	6	1	43,982
148 ft	24,588	24,046	24,745	4	1	43,938	6	1	43,982
131 ft	22,800	22,258	22,957	4	0	40,565	6	0	40,609
115 ft	22,536	21,993	22,692	3	2	37,170	5	1	37,214
98 ft	20,435	19,892	20,591	3	1	33,797	5	0	33,841
82 ft	19,268	18,726	19,425	3	0	30,424	4	1	30,446

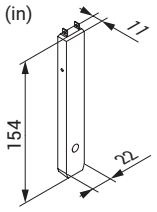
CBS - 10,141 lb



CBU - 6,768 lb



CBY - 3,373 lb

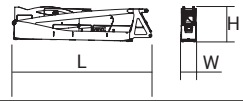
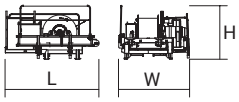
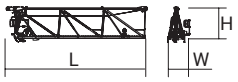
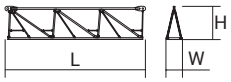
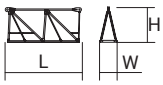
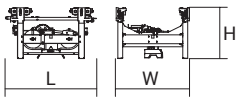
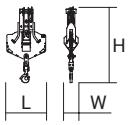
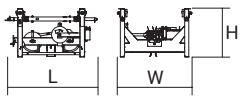
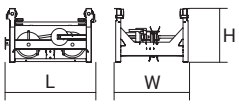
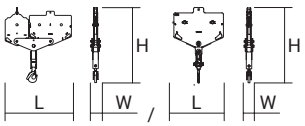


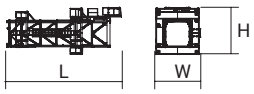
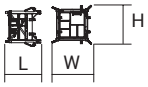
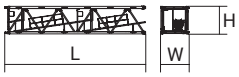
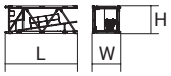
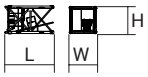
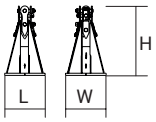
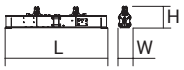
Dimensions and weight

Slewing crane part - : 213 ft - - 50 LVF

x 6

x 5

Slewing crane part			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	Counter-jib	Ⓐ Ⓑ	36.1 36.1	3.8 3.8	8.1 8.1	19,213 18,629
	Towerhead + cab	6.6 ft	16.1	7.5	8.3	18,618
	Hoisting winch (+ rope)	50 LVF 90 HPL™	10.6 10.6	8.1 10.8	6.2 5.8	7,319 9,092
	Jib section	① 6 DVF	35.5	5.6	9	7,959
	Jib section	② ④ ⑤ ⑥	33.8 33.5 33.6 33.4	3.9 3.9 3.9 3.9	7.9 7.8 6.9 6	5,335 3,439 2,723 1,753
	Jib section	③ ⑦	17.3 16.7	3.9 3.9	7.8 5	2,116 683
	Jib section	⑧	16.7	3.9	4.6	485
	Trolley	11 USt	6.1	5	3.4	882
	Pulley block	11 USt	3.3	1.4	6.6	694
	Trolley	11 USt	5.2	5	3.2	463
	Trolley	11 USt 5.5 USt	5.6 6.1	5 5	3.4 3.2	540 520
	Pulley block	11 USt 5.5 USt	5.4 3.6	0.7 0.5	5.6 4.9	717 430

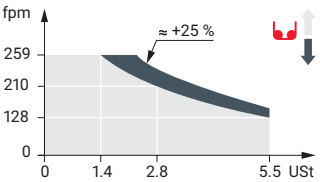
Crane tower			L (ft)	W (ft)	H (ft)	lb (+/- 5%)
	T 61	⍁ 6.6 ft	35.5	13.6	14.7	21,385
	K60/K60-2	⍁ 6.6 ft	7.3	8.2	8.1	4,255
	K 649B KM 649E KRM 6410B	⍁ 6.6 ft	33.6 33.8 33.6	6.8 6.7 6.9	6.7 6.7 6.8	11,663 10,692 15,653
	K 649A KMT 649A KR 649A KRMT 649A	⍁ 6.6 ft	17.2 17.2 17.2 17.2	6.8 6.8 6.9 6.9	6.7 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
	Cross girder	ZD 640	22.2	1	4.7	7,055
	1/2 Cross girder	ZD 640	10.8	1.9	4.7	2,976
	Cross girder	ZX 640	30	3.9	5.1	15,168
	1/2 Cross girder	ZX 640	14.3	3.3	5.1	7,319

Mechanisms

480 V - 60 Hz											hp	kW	
	50 LVF 25 Optima	fpm	128	161	210	259	66	84	108	130	50	37	1,827 ft
		USt	5.5	4.1	2.8	1.4	11	8.3	5.5	3.2			
	90 HPL™ 25	fpm	213	279	392	518	707	110	146	203	271	353	90	66	2,736 ft
		USt	5.5	4.1	2.8	1.4	0.4	11	8.3	5.5	2.8	1.3			
	6 DVF 4 Optima	fpm	0 → 164 (11 USt) 0 → 328 (6.6 USt) 0 → 394 (3.3 USt)								5.5	4	
	RVF 162 Optima+	rpm	0 → 0.9								2 x 7.5	2 x 5.5	

IEC 60204-32	kVA
480 V (+6% -10%) 60 Hz	50 LVF: 58 → 38 kVA 90 HPL™: 90 → 54 kVA

50 LVF 25 Optima



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.

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