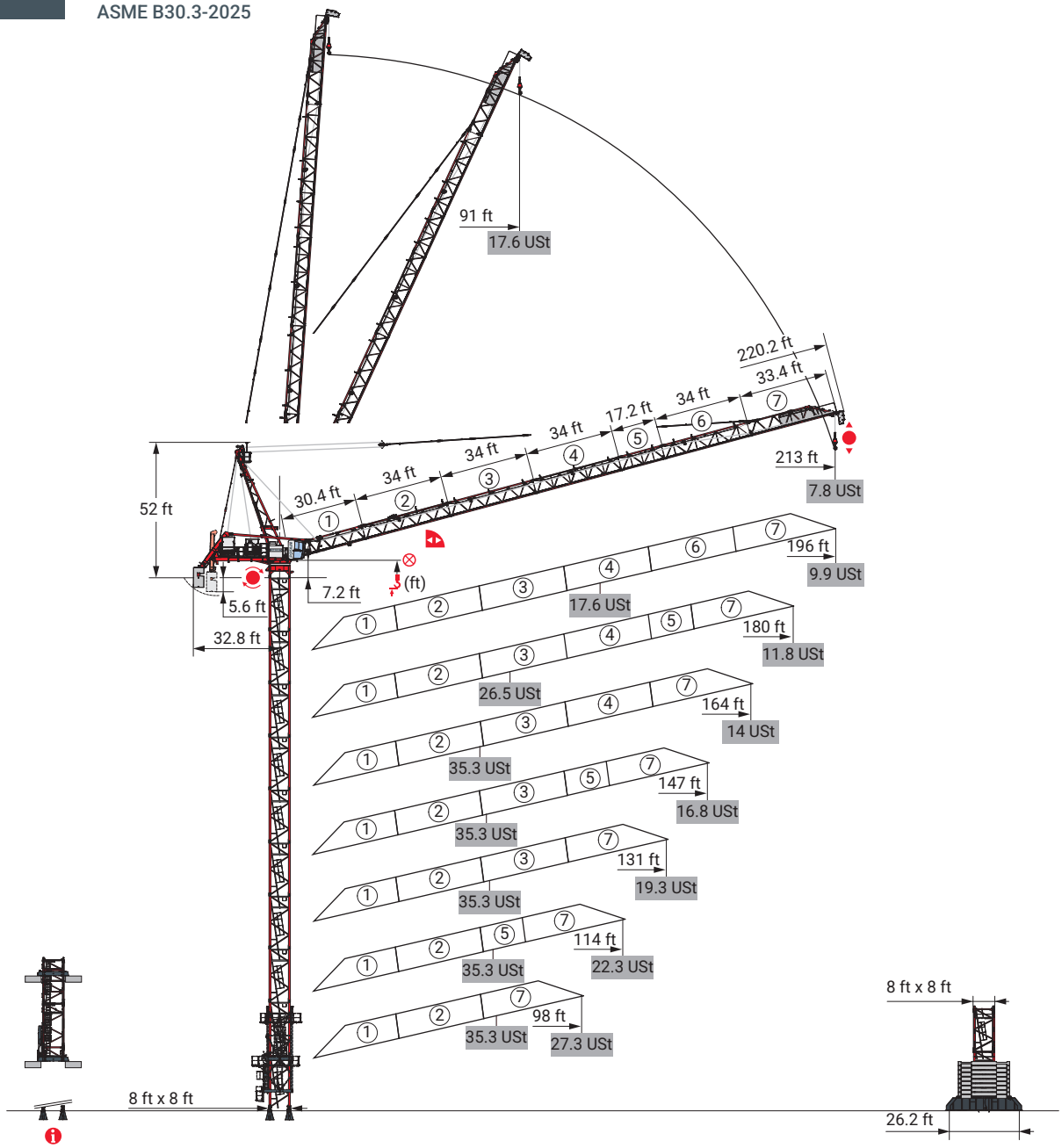
POTAIN®

# MR 629

Preliminary information

ASME B30.3-2025




Auto-levelling

Potain Plus

Power Control

Anti-collision systems

Values have been rounded.

## Mast - Reactions

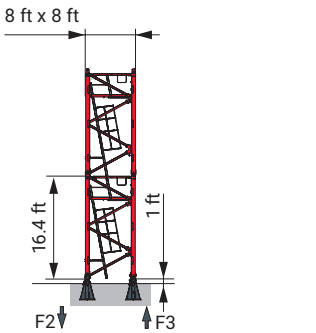
| 8 ft - P 800C | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| (ft) | 98 | 114 | 131 | 147 | 164 | 180 | 196 | 213 |
| (ft) | 166.7 | 150.3 | 150.3 | 150.3 | 150.3 | 145 | 139.4 | 133.9 |
| /P+ (ft) | 166.7 | 128.6 | 133.9 | 150.3 | 150.3 | 145 | 139.4 | 133.9 |
| 10.9 ft | 1 | 1 | 1 | 1 | 1 | 2 | 0 | 1 |
| 16.4 ft | 9 | 8 | 8 | 8 | 8 | 7 | 8 | 7 |
| F2 (USt) ● | 288 | 280 | 293 | 295 | 297 | 294 | 291 | 288 |
| F2 (USt) ■ | 226 | 200 | 211 | 234 | 256 | 264 | 260 | 269 |
| F3 (USt) ● | 203 | 181 | 206 | 208 | 209 | 206 | 204 | 202 |
| F3 (USt) ■ | 141 | 117 | 124 | 146 | 168 | 176 | 174 | 182 |

| 8 ft - P 854A | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| (ft) | 98 | 114 | 131 | 147 | 164 | 180 | 196 | 213 |
| (ft) | 232.3 | 227 | 221.5 | 221.5 | 215.9 | 210.6 | 205.1 | 205.1 |
| /P+ (ft) | 232.3 | 221.5 | 221.5 | 221.5 | 215.9 | 210.6 | 205.1 | 205.1 |
| 10.9 ft | 1 | 2 | 0 | 0 | 1 | 2 | 0 | 0 |
| 16.4 ft | 13 | 12 | 13 | 13 | 12 | 11 | 12 | 12 |
| F2 (USt) ● | 379 | 390 | 387 | 389 | 382 | 380 | 376 | 378 |
| F2 (USt) ■ | 515 | 535 | 522 | 548 | 544 | 558 | 556 | 583 |
| F3 (USt) ● | 259 | 270 | 282 | 284 | 279 | 276 | 273 | 275 |
| F3 (USt) ■ | 414 | 433 | 417 | 443 | 441 | 454 | 452 | 480 |

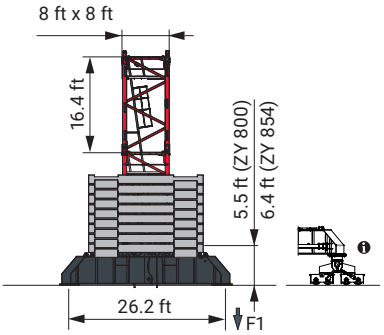
| 8 ft - ZY 800 - | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| (ft) | 98 | 114 | 131 | 147 | 164 | 180 | 196 | 213 |
| (ft) | 160.4 | 149.3 | 149.3 | 149.3 | 144 | 144 | 132.9 | 132.9 |
| /P+ (ft) | 160.4 | 132.9 | 138.5 | 149.3 | 144 | 144 | 132.9 | 132.9 |
| 10.9 ft | 0 | 2 | 2 | 2 | 0 | 0 | 2 | 2 |
| 16.4 ft | 9 | 7 | 7 | 7 | 8 | 8 | 6 | 6 |
| F1 (USt) ● | 143 | 144 | 144 | 151 | 143 | 146 | 144 | 145 |
| F1 (USt) ■ | 116 | 115 | 120 | 130 | 126 | 137 | 132 | 139 |

| 8 ft - ZY 854 - | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| (ft) | 98 | 114 | 131 | 147 | 164 | 180 | 196 | 213 |
| (ft) | 232.3 | 226.7 | 221.5 | 215.9 | 215.9 | 210.3 | 205.1 | 199.5 |
| /P+ (ft) | 232.3 | 226.7 | 221.5 | 215.9 | 215.9 | 210.3 | 205.1 | 199.5 |
| 10.9 ft | 2 | 0 | 1 | 2 | 2 | 0 | 1 | 2 |
| 16.4 ft | 12 | 13 | 12 | 11 | 11 | 12 | 11 | 10 |
| F1 (USt) ● | 206 | 206 | 207 | 203 | 208 | 203 | 206 | 204 |
| F1 (USt) ■ | 265 | 273 | 268 | 266 | 280 | 282 | 287 | 287 |

P 63A / P 800C
P 854A




ZY 800
ZY 854




Other mast compositions - Please consult us.

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

## Anchorages

## Base ballast

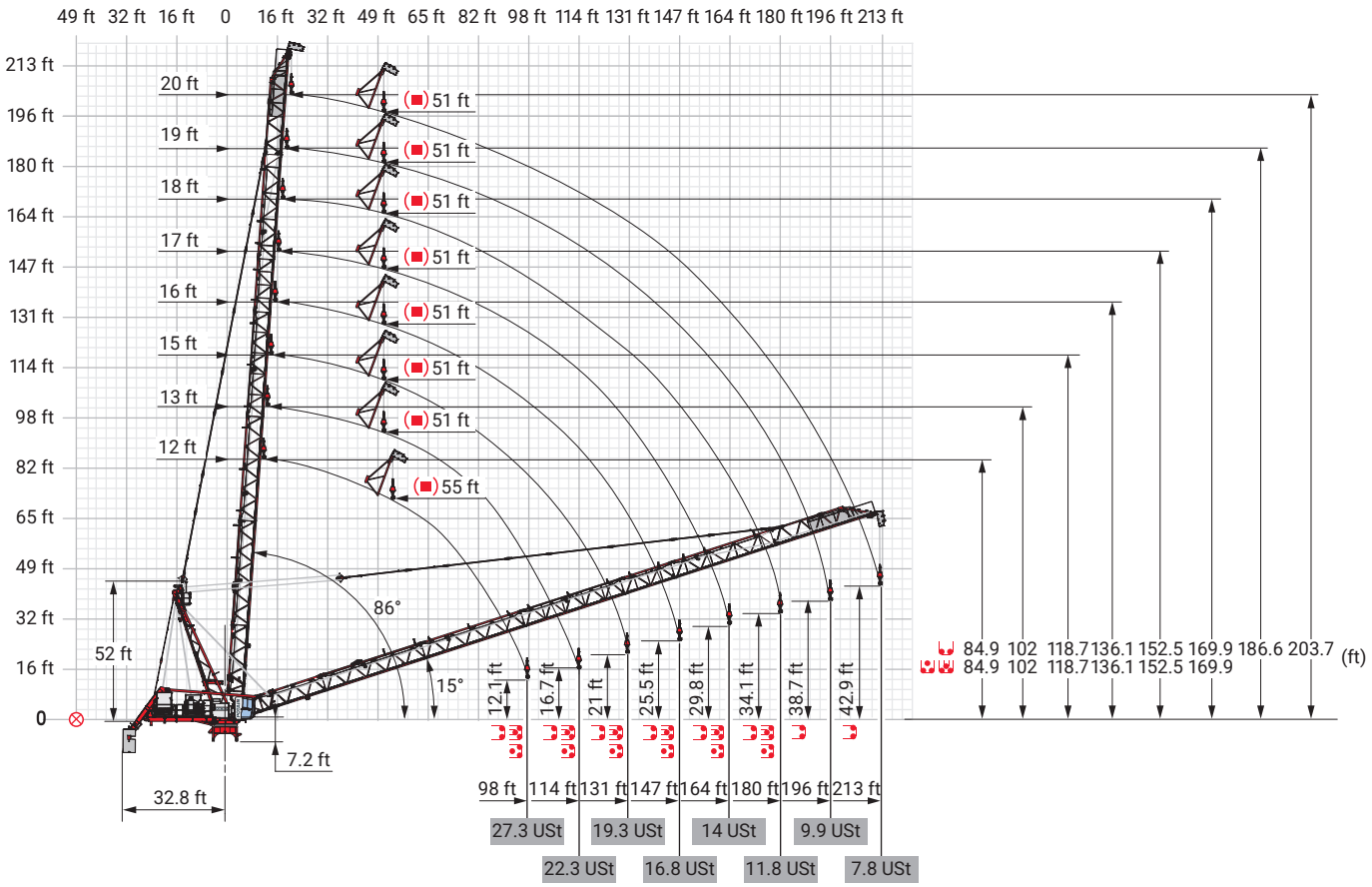
(USt) / 8 ft - ZY 800 -

| (ft) | 98 | 114 | 131 | 147 | 164 | 180 | 196 | 213 |
|---|---|---|---|---|---|---|---|---|
| 160.4 | 92.6 | | | | | | | |
| 149.3 | 92.6 | 92.6 | 92.6 | 105.8 | | | | |
| 144 | 79.4 | 79.4 | 92.6 | 92.6 | 92.6 | 105.8 | | |
| 132.9 | 66.1 | 66.1 | 79.4 | 79.4 | 79.4 | 92.6 | 105.8 | 105.8 |
| 116.5 | 66.1 | 52.9 | 66.1 | 66.1 | 66.1 | 66.1 | 79.4 | 79.4 |
| 100.1 | 66.1 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 66.1 | 66.1 |
| 83.7 | 66.1 | 52.9 | 39.7 | 39.7 | 39.7 | 39.7 | 52.9 | 52.9 |

(USt) / 8 ft - ZY 854 -

| (ft) | 98 | 114 | 131 | 147 | 164 | 180 | 196 | 213 |
|---|---|---|---|---|---|---|---|---|
| 232.3 | 198.4 | | | | | | | |
| 226.7 | 185.2 | 185.2 | | | | | | |
| 221.5 | 172 | 185.2 | 198.4 | | | | | |
| 215.9 | 158.7 | 172 | 185.2 | 185.2 | 211.6 | | | |
| 210.3 | 158.7 | 158.7 | 172 | 185.2 | 185.2 | 211.6 | | |
| 205.1 | 145.5 | 145.5 | 158.7 | 172 | 172 | 198.4 | 224.9 | |
| 199.5 | 132.3 | 145.5 | 158.7 | 158.7 | 172 | 172 | 198.4 | 224.9 |
| 183.1 | 119.1 | 119.1 | 132.3 | 132.3 | 145.5 | 145.5 | 158.7 | 172 |
| 166.7 | 92.6 | 92.6 | 105.8 | 119.1 | 119.1 | 119.1 | 132.3 | 145.5 |
| 150.3 | 79.4 | 79.4 | 92.6 | 92.6 | 92.6 | 105.8 | 105.8 | 119.1 |
| 133.9 | 66.1 | 66.1 | 66.1 | 79.4 | 79.4 | 79.4 | 92.6 | 92.6 |
| 117.5 | 52.9 | 39.7 | 52.9 | 52.9 | 52.9 | 66.1 | 66.1 | 79.4 |
| 101.1 | 52.9 | 39.7 | 39.7 | 39.7 | 39.7 | 39.7 | 52.9 | 66.1 |
| 84.7 | 52.9 | 39.7 | 39.7 | 26.5 | 26.5 | 26.5 | 39.7 | 39.7 |

## Luffing jib


49 ft 32 ft 16 ft 0 16 ft 32 ft 49 ft 65 ft 82 ft 98 ft 114 ft 131 ft 147 ft 164 ft 180 ft 196 ft 213 ft
213 ft
196 ft
180 ft
164 ft
147 ft
131 ft
114 ft
98 ft
82 ft
65 ft
49 ft
32 ft
16 ft
0
20 ft
19 ft
18 ft
17 ft
16 ft
15 ft
13 ft
12 ft
51 ft
55 ft
86°
15°
52 ft
7.2 ft
32.8 ft
12.1 ft
16.7 ft
21 ft
25.5 ft
29.8 ft
34.1 ft
38.7 ft
42.9 ft
84.9 102 118.7 136.1 152.5 169.9 186.6 203.7 (ft)
84.9 102 118.7 136.1 152.5 169.9
98 ft 114 ft 131 ft 147 ft 164 ft 180 ft 196 ft 213 ft
27.3 USt
19.3 USt
14 USt
9.9 USt
22.3 USt
16.8 USt
11.8 USt
7.8 USt

## Load curves

| (ft) | | | 55 | 65 | 72 | 82 | 88 | 98 | 104 | 114 | 115 | 121 | 131 | 137 | 147 | 154 | 164 | 170 | 180 | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 17.6 USt | | | | | | | | | | | | | | | | | | |
| 180 | 18 → 78 | 111 - 118 | 26.5 | 26.5 | 26.5 | 25.2 | 23.1 | 20.4 | 18.9 | 17.6 | - | 17.1 | 15.7 | 14.8 | 13.7 | 13.1 | 12.2 | 11.7 | 10.9 | USt |
| | 18 → 78 | 115 - 122 | 26.5 | 26.5 | 26.5 | 25.4 | 23.4 | 20.9 | 19.5 | 17.7 | - | 17.6 | 16.4 | 15.6 | 14.5 | 13.9 | 13 | 12.4 | 11.7 | USt P+ |
| 164 | 17 → 62 | 117 - 124 | 35.3 | 33.4 | 30.2 | 26.3 | 24.2 | 21.5 | 20 | 18.1 | - | 17.6 | 16.7 | 15.9 | 14.7 | 14 | 13.1 | USt | | |
| | 17 → 62 | 122 - 130 | 35.3 | 33.6 | 30.5 | 26.9 | 24.8 | 22.3 | 20.8 | 18.9 | - | 17.8 | 17.5 | 16.7 | 15.5 | 14.8 | 13.9 | USt P+ | | |
| 147 | 16 → 67 | 126 - 134 | 35.3 | 35.3 | 32.7 | 28.5 | 26.2 | 23.4 | 21.7 | 19.7 | - | 18.5 | 17.6 | 17.1 | 15.9 | USt | | | | |
| | 16 → 67 | 131 - 139 | 35.3 | 35.3 | 32.9 | 28.9 | 26.8 | 24 | 22.4 | 20.4 | - | 19.2 | 17.7 | 17.6 | 16.7 | USt P+ | | | | |
| 131 | 15 → 68 | | 35.3 | 35.3 | 33.8 | 29.9 | 27.8 | 25 | 23.5 | 21.4 | - | 20.2 | 18.6 | USt | | | | | | |
| | 15 → 68 | | 35.3 | 35.3 | 33.9 | 30.2 | 28.2 | 25.5 | 24 | 22 | - | 20.9 | 19.3 | USt P+ | | | | | | |
| 114 | 13 → 70 | | 35.3 | 35.3 | 34.5 | 30.5 | 28.2 | 25.4 | 23.8 | 21.7 | 21.6 | USt | | | | | | | | |
| | 13 → 70 | | 35.3 | 35.3 | 34.6 | 30.8 | 28.7 | 25.9 | 24.4 | 22.3 | 22.3 | USt P+ | | | | | | | | |
| 98 | 12 → 72 | | 35.3 | 35.3 | 35.3 | 31.7 | 29.7 | 27 | USt | | | | | | | | | | | |
| | 12 → 72 | | 35.3 | 35.3 | 35.3 | 31.9 | 29.9 | 27.3 | USt P+ | | | | | | | | | | | |

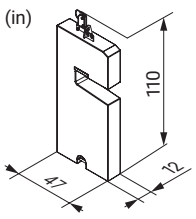
= - 1.15 USt max.

| (ft) | | 55 | 65 | 72 | 82 | 88 | 98 | 104 | 114 | 115 | 121 | 131 | 137 | 147 | 154 | 164 | 170 | 180 | 196 | 213 | ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 17.6 USt | | | | | | | | | | | | | | | | | | | | |
| 213 | 20 → 91 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 16.4 | 15.4 | 14 | - | 13.3 | 12.2 | 11.6 | 10.8 | 10.3 | 9.6 | 9.2 | 8.7 | 7.9 | 7.2 | USt |
| | 20 → 91 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 16.6 | 15.7 | 14.4 | - | 13.7 | 12.7 | 12.2 | 11.4 | 10.9 | 10.3 | 9.9 | 9.3 | 8.5 | 7.8 | USt P+ |
| 196 | 19 → 111 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.1 | - | 16 | 14.6 | 13.8 | 12.8 | 12.2 | 11.3 | 10.8 | 10.1 | 9.2 | USt | |
| | 19 → 111 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.1 | - | 16.2 | 15 | 14.3 | 13.4 | 12.8 | 12 | 11.5 | 10.9 | 9.9 | USt P+ | |
| 180 | 18 → 118 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.2 | 15.8 | 15 | 13.8 | 13.2 | 12.3 | 11.8 | 11 | USt | | |
| | 18 → 123 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.6 | 16.5 | 15.7 | 14.6 | 14 | 13.1 | 12.6 | 11.8 | USt P+ | | |
| 164 | 17 → 125 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.6 | 16.8 | 16 | 14.8 | 14.2 | 13.2 | USt | | | | |
| | 17 → 131 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.6 | 17.6 | 16.8 | 15.6 | 14.9 | 14 | USt P+ | | | | |
| 147 | 16 → 135 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.6 | 17.6 | 17.3 | 16 | USt | | | | | | |
| | 16 → 141 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.6 | 17.6 | 17.6 | 16.8 | USt P+ | | | | | | |
| 131 | 15 → 131 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.6 | 17.6 | USt | | | | | | | | |
| | 15 → 131 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | - | 17.6 | 17.6 | USt P+ | | | | | | | | |
| 114 | 13 → 115 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | USt | | | | | | | | | | |
| | 13 → 115 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | USt P+ | | | | | | | | | | |
| 98 | 12 → 98 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | USt | | | | | | | | | | | | | |
| | 12 → 98 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | 17.6 | USt P+ | | | | | | | | | | | | | |

## Jib weight and counter-jib ballast

| | (lb) (+/- 5%) | | | |
|---|---|---|---|---|
| | | / | | |
| | | | 13,228 lb | (lb) |
| 213 ft | 36,586 | 23,237 / 13,349 | 9 | 119,052 |
| 196 ft | 34,580 | 23,237 / 11,343 | 9 | 119,052 |
| 180 ft | 34,800 | 23,215 / 11,585 | 9 | 119,052 |
| 164 ft | 32,778 | 23,215 / 9,563 | 9 | 119,052 |
| 147 ft | 30,377 | 13,768 / 16,609 | 9 | 119,052 |
| 131 ft | 28,393 | 13,768 / 14,625 | 9 | 119,052 |
| 114 ft | 25,964 | 13,823 / 12,141 | 8 | 105,824 |
| 98 ft | 23,986 | 14,081 / 9,905 | 8 | 105,824 |

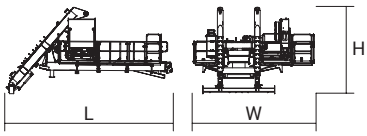
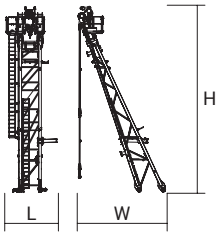
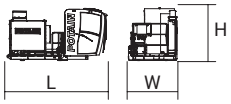
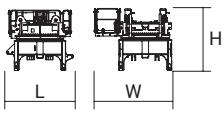
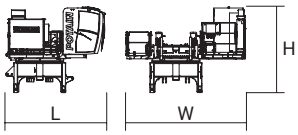
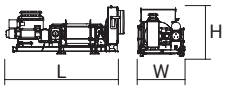
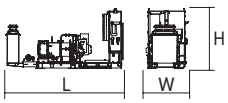
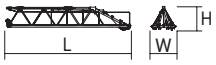
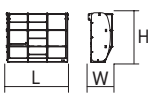
13,228 lb

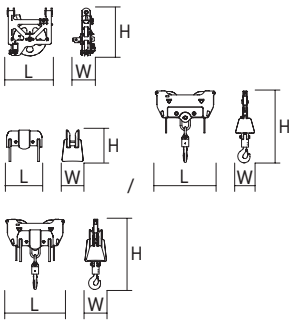
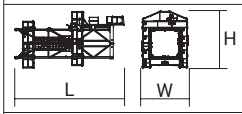
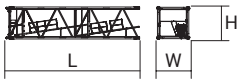
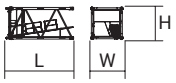
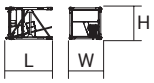
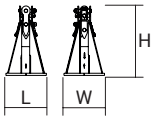


## Dimensions and weight

Slewing crane part - : 213 ft - - 180 HPL™

x 12
x 11

| Slewing crane part | | | L (ft) | W (ft) | H (ft) | lb (+/- 5%) |
|---|---|---|---|---|---|---|
|  | Counter-jib | 150 VVF | 27.8 | 21 | 16.3 | 31,824 |
|  | Strut | | 11.9 | 20.2 | 43 | 26,411 |
|  | Cab | Ultra View | 15.6 | 7.5 | 8.1 | 4,255 |
|  | Towerhead | 8 ft | 10.6 | 11.9 | 9.5 | 31,129 |
|  | | | 15.6 | 18.8 | 13.4 | 35,384 |
|  | Hoisting winch (+ rope) | 180 HPL™<br>320 LVF | 15.8<br>18.4 | 6.4<br>7.2 | 6.5<br>7.8 | 16,821<br>28,153 |
|  | Luffing winch (+ rope) | 150 VVF | 16 | 5.6 | 7.1 | 11,211 |
|  | Jib section | ① | 32 | 7.7 | 6.7 | 7,209 |
|  | | ② | 34.6 | 7 | 5.9 | 4,277 |
| | | ③ | 34.5 | 7 | 5.7 | 3,715 |
| | | ④ | 34.5 | 7 | 5.7 | 3,307 |
| | | ⑥ | 34.5 | 7 | 5.7 | 2,910 |
|  | | ⑤ | 17.8 | 7 | 5.7 | 1,631 |
|  | | ⑦ | 34.9 | 7 | 6.6 | 5,004 |
|  | Jib nose inspection platform | | 6.2 | 2.5 | 5 | 187 |

| | | | L (ft) | W (ft) | H (ft) | lb (+/- 5%) |
|---|---|---|---|---|---|---|
|  | Pulley block | | 2.6<br><br>3.4<br>5.6<br><br>5.6 | 1.2<br><br>2<br>1.7<br><br>2 | 2.7<br><br>3<br>6.7<br><br>6.7 | 231<br><br>1,653<br>1,653<br><br>3,306 |
|  | Luffing pulley block | | 3 | 2.3 | 3.6 | 728 |
| **Crane tower** | | | | | | |
|  | T 851 | ⍁ 8 ft | 36.7 | 15.9 | 19 | 34,723 |
|  | KRM 849B<br>K 85/KR 84B2<br>KM 850.10B<br>KM 850.14B | ⍁ 8 ft | 33.6<br>33.6<br>33.9<br>33.9 | 8.4<br>8.3<br>8.3<br>8.3 | 8.3<br>8.2<br>8.2<br>8.2 | 17,196<br>21,242<br>22,201<br>24,670 |
|  | K 849A<br>KMT 849A<br>KR 849A<br>KRMT 849A<br>K 85/KR 84A2<br>KMT 850.10A<br>KMT 850.14A | ⍁ 8 ft | 17.2<br>17.2<br>17.2<br>17.2<br>17.2<br>17.5<br>17.5 | 8.3<br>8.4<br>8.3<br>8.4<br>8.3<br>8.3<br>8.3 | 8.2<br>8.3<br>8.2<br>8.3<br>8.2<br>8.2<br>8.2 | 7,496<br>6,945<br>9,458<br>9,017<br>12,236<br>12,015<br>13,206 |
|  | KRMT 849C<br>KMT 850.10C | ⍁ 8 ft | 11.7<br>12 | 8.4<br>8.3 | 8.3<br>8.2 | 7,066<br>9,326 |
|  | Fixing angles | P 63A / P 800C<br>P 854A | 2.5<br>3 | 2.5<br>3 | 4.2<br>4.9 | 1,025<br>2,072 |
|  | 1/2 Cross girder | ZY 800<br>ZY 854 | 18.6<br>18.7 | 3.2<br>3.2 | 6.3<br>7.4 | 10,406<br>14,176 |
|  | Cross girder | ZY 800<br>ZY 854 | 39.2<br>39 | 4.6<br>4.7 | 6.3<br>7.4 | 22,212<br>30,865 |

## Mechanisms

| 480 V - 60 Hz | | | | | | | | | | | | | hp | kW | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 180 HPL™ 80 | fpm | 137 | 170 | 228 | 359 | 503 | 68 | 85 | 114 | 183 | 251 | 180 | 132 | 2,385 ft |
| | | USt | 17.6 | 13.2 | 8.8 | 4.4 | 2.1 | 35.3 | 26.5 | 17.6 | 8.8 | 5.2 | | | |
| | 320 LVF 80 Optima | fpm | 246 | 321 | 449 | 639 | 669 | 124 | 160 | 226 | 318 | 334 | 320 | 240 | 3,432 ft |
| | | USt | 17.6 | 13.2 | 8.8 | 5.5 | 4.5 | 35.3 | 26.5 | 17.6 | 12.2 | 10.4 | | | |
| | 150 VVF 71 | | 1 min 55 s | | | | | | | | | | 150 | 110 | |
| | RVF 173 Optima + | rpm | 0 → 1 | | | | | | | | | | 3 x 10 | 3 x 7.5 | |
| | | | | | | | | | | | | | | | |

| IEC 60204-32 | kVA | |
|---|---|---|
| 480 V (+6% -10%) 60 Hz | 180 HPL™ + 150 VVF : 293 → 161 kVA<br>320 LVF + 150 VVF : 405 → 217 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
- Jib articulation axis
- Weathervaning position
- 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
- Luffing
- 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_MR629_2026_31-1
MR 629

manitowoc.com