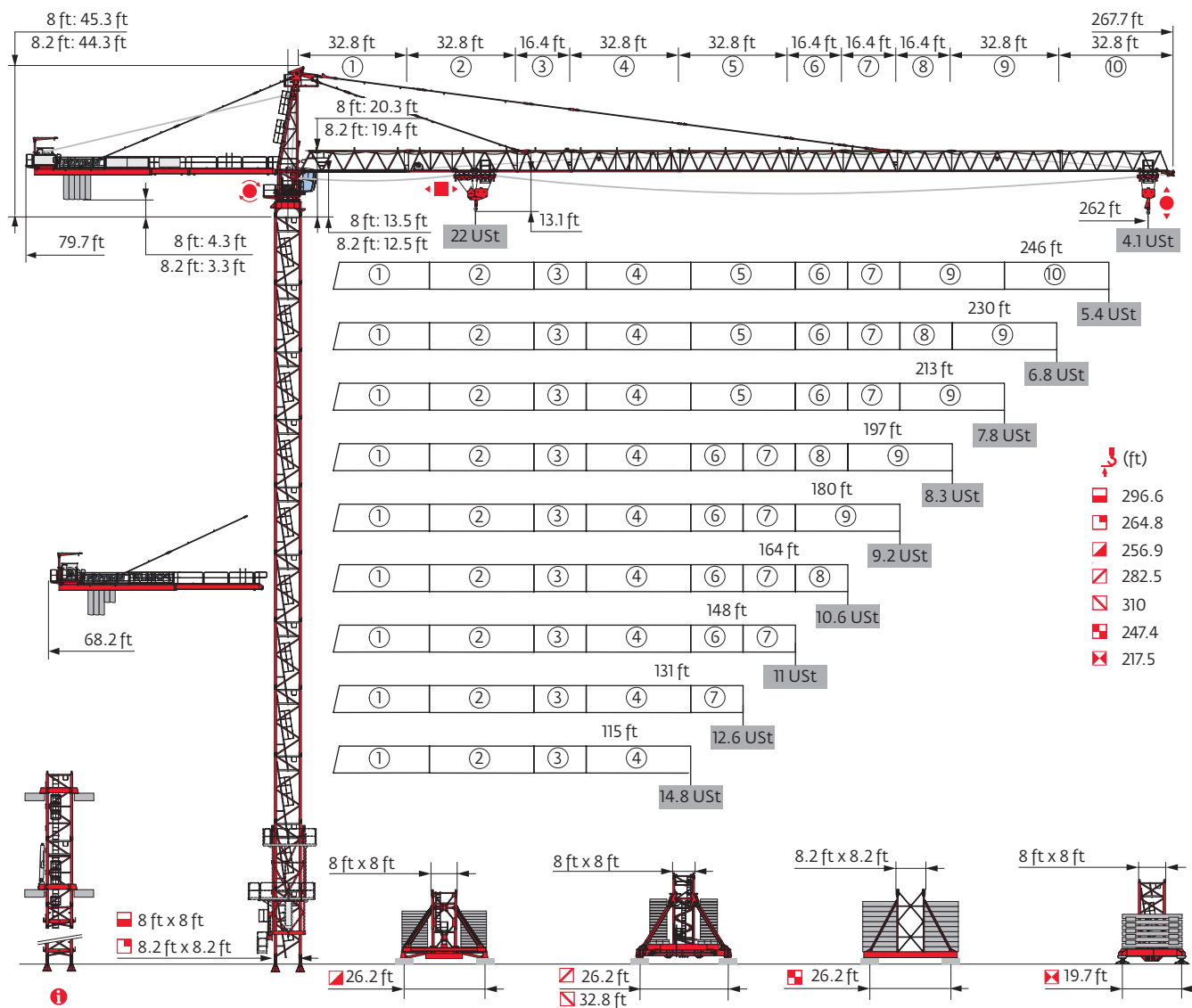
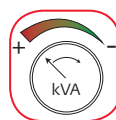


MD 509 M20



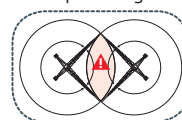
Potain Plus Power Control



Top Site



Top Tracing 3



Mast - Reactions

| 8 ft - P 802B | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MAJL (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| ⚡ (ft) | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 241.8 | 241.8 | 241.8 | 236.2 | 219.8 |
| ⚡/P+ (ft) | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 241.8 | 241.8 | 241.8 | 236.2 | 219.8 |
| 10.9 ft | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 2 | 2 |
| | 15 | 15 | 15 | 15 | 15 | 14 | 14 | 14 | 13 | 12 |
| F2 (Ust) | ● 249 | 256 | 256 | 252 | 252 | 251 | 250 | 252 | 236 | 224 |
| | ■ 394 | 402 | 405 | 400 | 405 | 396 | 393 | 399 | 390 | 338 |
| F3 (Ust) | ● 176 | 179 | 177 | 171 | 173 | 170 | 167 | 167 | 153 | 141 |
| | ■ 333 | 336 | 338 | 330 | 338 | 327 | 321 | 326 | 318 | 265 |

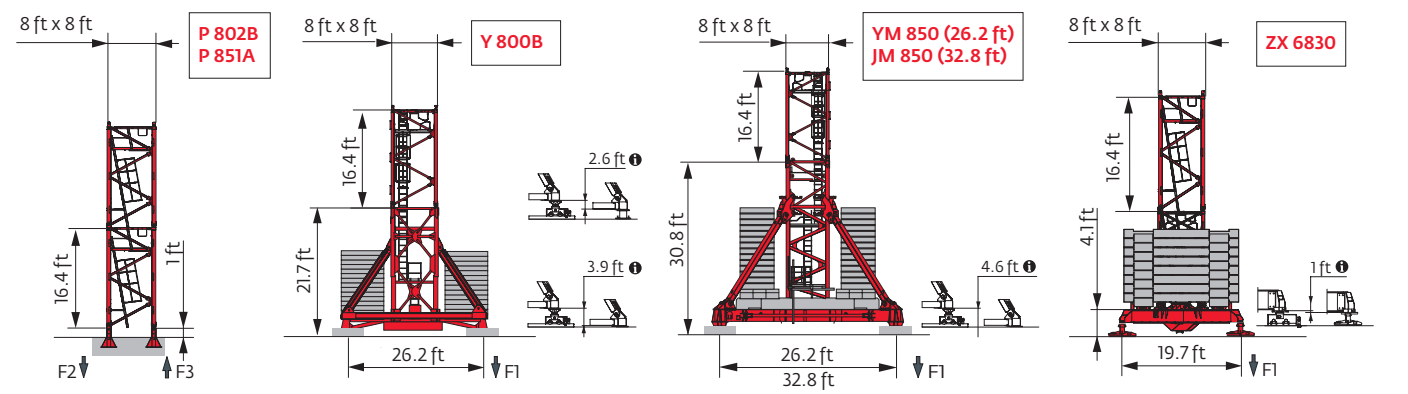
| 8 ft - Y 800B | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MAJL (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| ⚡ (ft) | 256.9 | 251.3 | 251.3 | 256.9 | 251.3 | 251.3 | 251.3 | 251.3 | 246.1 | 234.9 |
| ⚡/P+ (ft) | 256.9 | 251.3 | 251.3 | 256.9 | 251.3 | 251.3 | 251.3 | 251.3 | 246.1 | 234.9 |
| 10.9 ft | 2 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 1 | 0 |
| | 13 | 14 | 14 | 13 | 14 | 14 | 14 | 14 | 13 | 13 |
| F1 (Ust) | ● 159 | 153 | 153 | 159 | 152 | 153 | 151 | 155 | 148 | 139 |
| | ■ 211 | 201 | 203 | 212 | 203 | 204 | 201 | 205 | 200 | 178 |

| 8 ft - ZX 6830 | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MAJL (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| ⚡ (ft) | 217.5 | 211.9 | 211.9 | 217.5 | 211.9 | 211.9 | 217.5 | 211.9 | 211.9 | 211.9 |
| ⚡/P+ (ft) | 217.5 | 211.9 | 211.9 | 217.5 | 211.9 | 211.9 | 211.9 | 211.9 | 211.9 | 211.9 |
| 10.9 ft | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 |
| | 13 | 12 | 12 | 13 | 12 | 12 | 13 | 12 | 12 | 12 |
| F1 (Ust) | ● 161 | 161 | 161 | 162 | 160 | 161 | 161 | 160 | 158 | 155 |
| | ■ 194 | 189 | 191 | 194 | 190 | 192 | 197 | 192 | 196 | 192 |

| 8 ft - P 851A | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-----|-----|-----|
| MAJL (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| ⚡ (ft) | 296.6 | 296.6 | 296.6 | 296.6 | 296.6 | 296.6 | 296.6 | 291 | 291 | 291 |
| ⚡/P+ (ft) | 296.6 | 296.6 | 296.6 | 296.6 | 296.6 | 296.6 | 296.6 | 291 | 291 | 291 |
| 10.9 ft | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 |
| | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 17 | 17 | 17 |
| F2 (Ust) | ● 299 | 306 | 306 | 301 | 303 | 304 | 304 | 303 | 298 | 306 |
| | ■ 574 | 582 | 589 | 580 | 589 | 592 | 589 | 581 | 585 | 584 |
| F3 (Ust) | ● 215 | 217 | 216 | 209 | 212 | 212 | 209 | 207 | 204 | 209 |
| | ■ 502 | 505 | 509 | 499 | 509 | 511 | 506 | 496 | 501 | 497 |

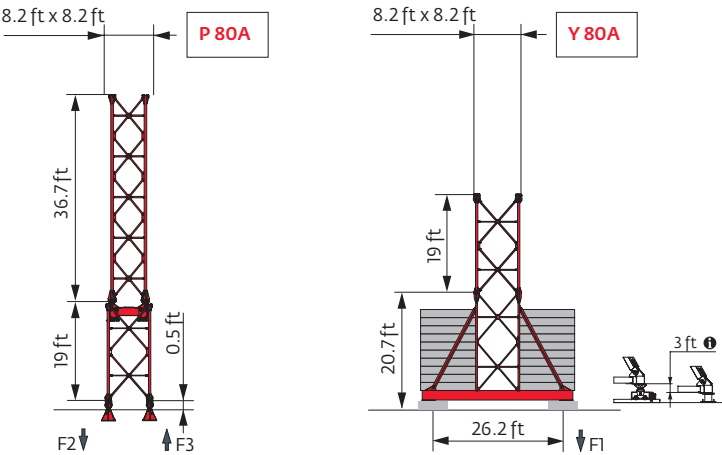
| 8 ft - YM 850 | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| MAJL (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| ⚡ (ft) | 277.2 | 277.2 | 277.2 | 282.5 | 282.5 | 282.5 | 282.5 | 282.5 | 282.5 | 282.5 |
| ⚡/P+ (ft) | 277.2 | 277.2 | 277.2 | 282.5 | 282.5 | 282.5 | 282.5 | 282.5 | 282.5 | 282.5 |
| 10.9 ft | 0 | 0 | 0 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| | 15 | 15 | 15 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| F1 (Ust) | ● 177 | 177 | 178 | 184 | 183 | 184 | 185 | 186 | 185 | 189 |
| | ■ 246 | 249 | 251 | 261 | 265 | 267 | 264 | 267 | 270 | 269 |

| 8 ft - JM 850 | | | | | | | | | | |
|---------------|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| MAJL (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| ⚡ (ft) | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 |
| ⚡/P+ (ft) | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 | 310 |
| 10.9 ft | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 |
| F1 (Ust) | ● 167 | 168 | 168 | 168 | 167 | 169 | 170 | 172 | 170 | 174 |
| | ■ 245 | 249 | 250 | 247 | 250 | 251 | 249 | 252 | 255 | 254 |



| 8.2 ft - P 80A | | | | | | | | | | |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| W (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| (ft) | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 |
| / P_{\star} (ft) | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 | 264.8 |
| | 36.7 ft | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 19 ft | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 |
| F2 (Ust) | | 227 | 234 | 233 | 230 | 232 | 231 | 233 | 228 | 233 |
| | | 331 | 338 | 341 | 336 | 341 | 344 | 347 | 352 | 348 |
| F3 (Ust) | | 149 | 152 | 150 | 144 | 147 | 143 | 144 | 139 | 141 |
| | | 264 | 267 | 269 | 261 | 269 | 270 | 265 | 269 | 273 |

| 8.2 ft - Y 80A - | | | | | | | | | | |
|--------------------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| W (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| (ft) | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 |
| / P_{\star} (ft) | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 | 247.4 |
| | 36.7 ft | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| | 19 ft | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 |
| F1 (Ust) | | 123 | 127 | 127 | 124 | 126 | 127 | 125 | 126 | 126 |
| | | 144 | 147 | 148 | 144 | 148 | 149 | 147 | 150 | 149 |







Note: When "ASCE" is noted in this data sheet it is referring to 115 mph Wind Zone, Exposure B, Design Wind Speed = 98 mph. See back cover for design wind speed calculations.



Anchorage







Base ballast

|  (Ust) / 8 ft - Y 800B -  | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔΔΔ (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| 256.9 | 198.4 | | | 185.2 | | | | | | |
| 251.3 | 185.2 | 172 | 172 | 158.7 | 172 | 172 | 158.7 | 172 | | |
| 246.1 | 172 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | 158.7 | |
| 234.9 | 145.5 | 145.5 | 145.5 | 132.3 | 132.3 | 132.3 | 132.3 | 132.3 | 132.3 | 132.3 |
| 218.5 | 105.8 | 105.8 | 105.8 | 92.6 | 105.8 | 105.8 | 92.6 | 92.6 | 105.8 | 92.6 |
| 202.1 | 79.4 | 79.4 | 79.4 | 66.1 | 79.4 | 79.4 | 66.1 | 66.1 | 66.1 | 66.1 |
| 185.7 | 66.1 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 169.3 | 52.9 | 39.7 | 39.7 | 39.7 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 152.9 | 39.7 | 39.7 | 39.7 | 39.7 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 136.5 | 39.7 | 39.7 | 39.7 | 39.7 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 120.1 | 39.7 | 39.7 | 39.7 | 39.7 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 103.7 | 39.7 | 39.7 | 39.7 | 39.7 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 87.3 | 39.7 | 39.7 | 39.7 | 39.7 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |

|  (Ust) / 8 ft - YM 850 -  | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔΔΔ (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| 282.5 | | | | 238.1 | 238.1 | 238.1 | 238.1 | 238.1 | 238.1 | 238.1 |
| 277.2 | 238.1 | 224.9 | 224.9 | 211.6 | 224.9 | 224.9 | 211.6 | 224.9 | 224.9 | 211.6 |
| 260.8 | 198.4 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 185.2 | 172 |
| 244.4 | 158.7 | 158.7 | 158.7 | 145.5 | 158.7 | 145.5 | 145.5 | 145.5 | 145.5 | 145.5 |
| 228 | 119.1 | 119.1 | 119.1 | 105.8 | 119.1 | 119.1 | 105.8 | 105.8 | 119.1 | 105.8 |
| 211.6 | 92.6 | 92.6 | 92.6 | 79.4 | 92.6 | 79.4 | 79.4 | 79.4 | 79.4 | 66.1 |
| 195.2 | 66.1 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 178.8 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 162.4 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 146 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 129.6 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 113.2 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 96.8 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 80.4 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |







|  (Ust) / 8 ft - ZX 6830 -  | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔΔΔ (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| 217.5 | 199.5 | | | 188.5 | | | 188.5 | | | |
| 211.9 | 188.5 | 188.5 | 188.5 | 177.5 | 188.5 | 188.5 | 177.5 | 177.5 | 188.5 | 177.5 |
| 195.5 | 144.4 | 144.4 | 144.4 | 133.4 | 144.4 | 144.4 | 144.4 | 144.4 | 144.4 | 155.4 |
| 179.1 | 133.4 | 133.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 133.4 |
| 162.7 | 122.4 | 122.4 | 122.4 | 111.3 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 |
| 146.3 | 111.3 | 111.3 | 111.3 | 100.3 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 | 122.4 |
| 129.9 | 111.3 | 111.3 | 100.3 | 100.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 |
| 113.5 | 111.3 | 111.3 | 100.3 | 100.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 |
| 97.1 | 111.3 | 111.3 | 100.3 | 100.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 |
| 80.7 | 111.3 | 111.3 | 100.3 | 100.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 | 111.3 |



|  (Ust) / 8 ft - JM 850 -  | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| ΔΔΔ (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| 310 | 211.6 | 198.4 | 198.4 | 198.4 | 198.4 | 198.4 | 198.4 | 198.4 | 198.4 | 198.4 |
| 293.6 | 172 | 172 | 172 | 158.7 | 172 | 172 | 158.7 | 158.7 | 172 | 158.7 |
| 277.2 | 145.5 | 145.5 | 145.5 | 132.3 | 145.5 | 145.5 | 132.3 | 132.3 | 132.3 | 132.3 |
| 260.8 | 119.1 | 119.1 | 119.1 | 105.8 | 119.1 | 105.8 | 105.8 | 105.8 | 105.8 | 105.8 |
| 244.4 | 92.6 | 92.6 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 228 | 66.1 | 66.1 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 211.6 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 195.2 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 178.8 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 162.4 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 146 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 129.6 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 113.2 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 96.8 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |
| 80.4 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 | 52.9 |

|  (Ust) / 8.2 ft - Y 80A -  | | | | | | | | | | |
|--|-------|-------|-------|------|-------|-------|------|------|------|------|
| ΔΔΔ (ft) | 115 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 |
| 247.4 | 105.8 | 105.8 | 105.8 | 92.6 | 105.8 | 105.8 | 92.6 | 92.6 | 92.6 | 92.6 |
| 228.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 209.3 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 190.6 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 171.6 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 152.6 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 133.5 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 114.5 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 95.8 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| 76.8 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |

Load curves



|  (ft) | | | 56 | 66 | 82 | 89 | 98 | 115 | 121 | 131 | 148 | 154 | 164 | 180 | 187 | 197 | 213 | 220 | 230 | 236 | 246 | 253 | 262 | ft | |
|--|--|--|---|------|------|------|------|------|---------------|------|---|---------------|------|---------------|---------------|-----|---------------|---------------|-----|---------------|-----|---------------|-----|---------------|--|
|  |  22 USt |  11 USt |  | | | | | | | |  | | | | | | | | | | | | | | |
| 262 | 12 → 61 | 109 - 122 | 22 | 20.4 | 15.7 | 14.3 | 12.5 | 11 | 11 | 10.1 | 8.8 | 8.4 | 7.8 | 6.9 | 6.6 | 6.1 | 5.5 | 5.3 | 5 | 4.8 | 4.4 | 4.2 | 3.8 | USt | |
| | 12 → 67 | 117 - 132 | 22 | 22 | 17.3 | 15.7 | 13.8 | 11.3 | 11 | 11 | 9.6 | 9.2 | 8.5 | 7.5 | 7.2 | 6.7 | 6 | 5.8 | 5.4 | 5.2 | 4.8 | 4.6 | 4.1 | USt P+ | |
| 246 | 12 → 67 | 120 - 134 | 22 | 22 | 17.6 | 16 | 14.1 | 11.6 | 11 | 11 | 9.9 | 9.4 | 8.7 | 7.7 | 7.4 | 6.9 | 6.2 | 5.9 | 5.6 | 5.4 | 5 | USt | | | |
| | 12 → 70 | 125 - 140 | 22 | 22 | 18.4 | 16.8 | 14.8 | 12.3 | 11.4 | 11 | 10.4 | 9.9 | 9.2 | 8.2 | 7.9 | 7.4 | 6.6 | 6.3 | 6 | 5.8 | 5.4 | USt P+ | | | |
| 230 | 12 → 75 | 133 - 147 | 22 | 22 | 19.8 | 18.2 | 16 | 13.3 | 12.4 | 11.2 | 10.9 | 10.5 | 9.7 | 8.7 | 8.3 | 7.8 | 7 | 6.8 | 6.4 | USt | | | | | |
| | 12 → 77 | 138 - 153 | 22 | 22 | 20.5 | 18.8 | 16.7 | 13.9 | 13 | 11.8 | 11 | 11 | 10.2 | 9.1 | 8.8 | 8.2 | 7.5 | 7.2 | 6.8 | USt P+ | | | | | |
| 213 | 12 → 76 | 135 - 149 | 22 | 22 | 20.2 | 18.5 | 16.3 | 13.5 | 12.6 | 11.4 | 11 | 10.6 | 9.9 | 8.8 | 8.5 | 8 | 7.2 | USt | | | | | | | |
| | 12 → 78 | 143 - 158 | 22 | 22 | 20.9 | 19.3 | 17.2 | 14.4 | 13.5 | 12.2 | 11 | 11 | 10.5 | 9.5 | 9.1 | 8.6 | 7.8 | USt P+ | | | | | | | |
| 197 | 12 → 76 | 136 - 148 | 22 | 22 | 20.2 | 18.5 | 16.4 | 13.6 | 12.7 | 11.5 | 11 | 10.6 | 9.9 | 8.8 | 8.5 | 8 | USt | | | | | | | | |
| | 12 → 77 | 139 - 153 | 22 | 22 | 20.6 | 18.9 | 16.7 | 13.9 | 13 | 11.8 | 11 | 11 | 10.2 | 9.2 | 8.8 | 8.3 | USt P+ | | | | | | | | |
| 180 | 12 → 77 | 138 - 152 | 22 | 22 | 20.6 | 18.9 | 16.6 | 13.8 | 12.9 | 11.7 | 11 | 10.9 | 10.1 | 9 | USt | | | | | | | | | | |
| | 12 → 78 | 140 - 154 | 22 | 22 | 20.6 | 19 | 16.8 | 14 | 13.1 | 11.9 | 11 | 11 | 10.3 | 9.2 | USt P+ | | | | | | | | | | |
| 164 | 12 → 79 | 140 - 155 | 22 | 22 | 21.1 | 19.3 | 17 | 14.1 | 13.2 | 12 | 11 | 11 | 10.3 | USt | | | | | | | | | | | |
| | 12 → 80 | 143 - 158 | 22 | 22 | 21.3 | 19.5 | 17.3 | 14.4 | 13.5 | 12.3 | 11 | 11 | 10.6 | USt P+ | | | | | | | | | | | |
| 148 | 12 → 78 | 139 - 148 | 22 | 22 | 20.9 | 19.1 | 16.8 | 13.9 | 13 | 11.8 | 11 | USt | | | | | | | | | | | | | |
| | 12 → 78 | 139 - 148 | 22 | 22 | 20.9 | 19.1 | 16.8 | 13.9 | 13 | 11.8 | 11 | USt P+ | | | | | | | | | | | | | |
| 131 | 12 → 80 | | 22 | 22 | 21.3 | 19.4 | 17.1 | 14.2 | 13.2 | 12 | USt | | | | | | | | | | | | | | |
| | 12 → 80 | | 22 | 22 | 21.3 | 19.4 | 17.1 | 14.2 | 13.2 | 12 | USt P+ | | | | | | | | | | | | | | |
| 115 | 12 → 80 | | 22 | 22 | 21.3 | 19.5 | 17.2 | 14.2 | USt | | | | | | | | | | | | | | | | |
| | 12 → 80 | | 22 | 22 | 21.3 | 19.5 | 17.2 | 14.2 | USt P+ | | | | | | | | | | | | | | | | |

 =  - 1.67 USt max.

$$W = USt - 1.67 USt \text{ max.}$$



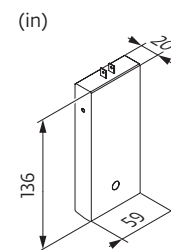
| | | (ft) | 56 | 66 | 82 | 89 | 98 | 115 | 121 | 131 | 148 | 154 | 164 | 180 | 187 | 197 | 213 | 220 | 230 | 236 | 246 | 253 | 262 | ft |
|-----|--------|-----------|----|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----------|
| | 22 USt | 11 USt | | | | | | | | | | | | | | | | | | | | | | |
| 262 | 9 → 63 | 113 - 117 | 22 | 21.1 | 16.3 | 14.9 | 13.1 | 11 | 10.5 | 9.6 | 8.2 | 7.8 | 7.2 | 6.3 | 6 | 5.6 | 4.9 | 4.7 | 4.4 | 4.2 | 3.9 | 3.6 | 3.3 | USt |
| | 9 → 68 | 122 - 126 | 22 | 22 | 17.9 | 16.4 | 14.4 | 11.9 | 11.1 | 10 | 9.1 | 8.6 | 7.9 | 6.9 | 6.6 | 6.1 | 5.4 | 5.2 | 4.8 | 4.6 | 4.2 | 4 | 3.5 | USt P_+ |
| 246 | 9 → 69 | 125 - 129 | 22 | 22 | 18.2 | 16.6 | 14.8 | 12.3 | 11.5 | 10.4 | 9.4 | 8.9 | 8.2 | 7.3 | 6.9 | 6.4 | 5.7 | 5.4 | 5.1 | 4.9 | 4.5 | | | USt |
| | 9 → 71 | 131 - 135 | 22 | 22 | 19 | 17.4 | 15.5 | 12.9 | 12.1 | 11 | 9.9 | 9.4 | 8.7 | 7.7 | 7.4 | 6.9 | 6.2 | 5.9 | 5.5 | 5.3 | 4.9 | | | USt P_+ |
| 230 | 9 → 76 | 139 - 143 | 22 | 22 | 20.4 | 18.8 | 16.7 | 13.9 | 13 | 11.9 | 10.5 | 10.1 | 9.4 | 8.3 | 7.9 | 7.4 | 6.7 | 6.4 | 6 | | | | | USt |
| | 9 → 79 | 145 - 149 | 22 | 22 | 21.2 | 19.5 | 17.3 | 14.5 | 13.6 | 12.4 | 11 | 10.6 | 9.9 | 8.8 | 8.4 | 7.9 | 7.1 | 6.8 | 6.5 | | | | | USt P_+ |
| 213 | 9 → 78 | 141 - 145 | 22 | 22 | 20.8 | 19.1 | 16.9 | 14.1 | 13.2 | 12 | 10.8 | 10.3 | 9.5 | 8.5 | 8.1 | 7.6 | 6.9 | | | | | | | USt |
| | 9 → 80 | 149 - 153 | 22 | 22 | 21.6 | 20 | 17.8 | 15 | 14.1 | 12.9 | 11.2 | 10.9 | 10.2 | 9.1 | 8.7 | 8.2 | 7.4 | | | | | | | USt P_+ |
| 197 | 9 → 78 | 142 - 144 | 22 | 22 | 20.9 | 19.1 | 17 | 14.2 | 13.3 | 12.1 | 10.7 | 10.3 | 9.5 | 8.5 | 8.1 | 7.6 | | | | | | | | USt |
| | 9 → 79 | 146 - 149 | 22 | 22 | 21.2 | 19.5 | 17.3 | 14.5 | 13.6 | 12.5 | 11 | 10.6 | 9.9 | 8.8 | 8.4 | 7.9 | | | | | | | | USt P_+ |
| 180 | 9 → 79 | 144 - 148 | 22 | 22 | 21.2 | 19.5 | 17.3 | 14.4 | 13.5 | 12.3 | 11 | 10.5 | 9.8 | 8.7 | | | | | | | | | | USt |
| | 9 → 79 | 147 - 150 | 22 | 22 | 21.3 | 19.6 | 17.4 | 14.6 | 13.7 | 12.5 | 11 | 10.7 | 9.9 | 8.9 | | | | | | | | | | USt P_+ |
| 164 | 9 → 81 | 146 - 151 | 22 | 22 | 21.7 | 19.9 | 17.6 | 14.7 | 13.8 | 12.6 | 11 | 10.7 | 10 | | | | | | | | | | | USt |
| | 9 → 81 | 150 - 154 | 22 | 22 | 21.9 | 20.1 | 17.9 | 15 | 14.1 | 12.9 | 11.2 | 10.9 | 10.2 | | | | | | | | | | | USt P_+ |
| 148 | 9 → 80 | 146 - 148 | 22 | 22 | 21.5 | 19.7 | 17.4 | 14.5 | 13.6 | 12.4 | 11 | | | | | | | | | | | | | USt |
| | 9 → 80 | 146 - 148 | 22 | 22 | 21.5 | 19.7 | 17.4 | 14.5 | 13.6 | 12.4 | 11 | | | | | | | | | | | | | USt P_+ |
| 131 | 9 → 82 | | 22 | 22 | 21.9 | 20 | 17.7 | 14.8 | 13.8 | 12.6 | | | | | | | | | | | | | | USt |
| | 9 → 82 | | 22 | 22 | 21.9 | 20 | 17.7 | 14.8 | 13.8 | 12.6 | | | | | | | | | | | | | | USt P_+ |
| 115 | 9 → 82 | | 22 | 22 | 21.9 | 20.1 | 17.9 | 14.8 | | | | | | | | | | | | | | | | USt |
| | 9 → 82 | | 22 | 22 | 21.9 | 20.1 | 17.9 | 14.8 | | | | | | | | | | | | | | | | USt P_+ |

$$W = USt - 0.47 USt \text{ max.}$$

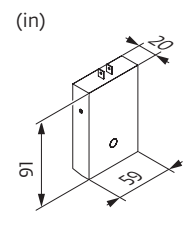
Jib weight & counter-jib ballast

| | (lb) (+/- 5%) | | | 100 LVF | | | 180 LVF GH | | |
|--------|------------------|--------|--------|-----------|----------|--------|------------|----------|--------|
| | | | | 13,228 lb | 8,818 lb | (lb) | 13,228 lb | 8,818 lb | (lb) |
| 262 ft | 43,497 | 42,505 | 44,688 | 5 | 0 | 66,139 | 3 | 2 | 57,320 |
| 246 ft | 42,097 | 41,105 | 43,288 | 4 | 1 | 61,729 | 3 | 1 | 48,502 |
| 230 ft | 41,734 | 40,741 | 42,924 | 4 | 1 | 61,729 | 3 | 1 | 48,502 |
| 213 ft | 40,124 | 39,132 | 41,315 | 3 | 2 | 57,320 | 2 | 2 | 44,092 |
| 197 ft | 37,721 | 36,729 | 38,912 | 3 | 1 | 48,502 | 2 | 1 | 35,274 |
| 180 ft | 36,123 | 35,131 | 37,313 | 2 | 2 | 44,092 | 1 | 2 | 30,865 |
| 164 ft | 34,921 | 33,929 | 36,112 | 3 | 2 | 57,320 | 2 | 2 | 44,092 |
| 148 ft | 33,323 | 32,331 | 34,513 | 3 | 1 | 48,502 | 2 | 1 | 35,274 |
| 131 ft | 31,151 | 30,159 | 32,342 | 2 | 2 | 44,092 | 1 | 2 | 30,865 |
| 115 ft | 28,671 | 27,679 | 29,862 | 2 | 1 | 35,274 | 1 | 1 | 22,046 |

CBC - 13,228 lb


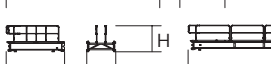
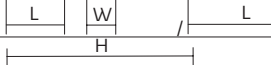
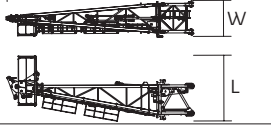

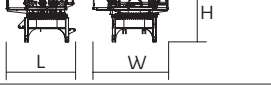
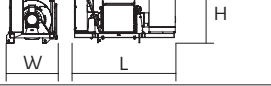
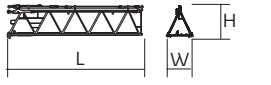
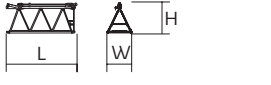
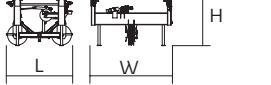
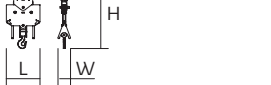
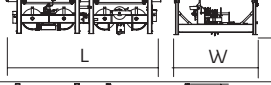
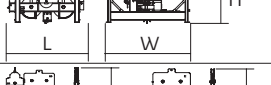



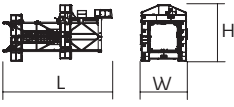
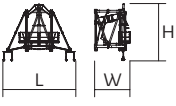


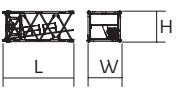


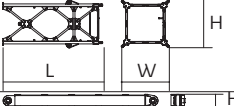
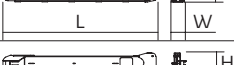
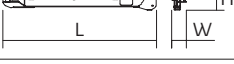

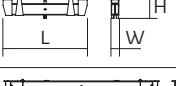
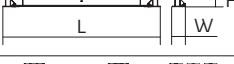
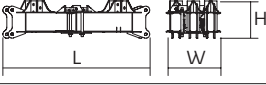

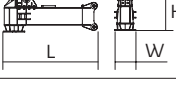
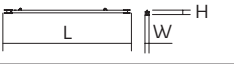
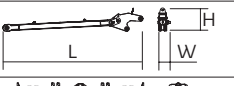

CBD - 8,818 lb













Dimensions and weight




Slewing crane part:  262 ft -  -  100 LVF

| Slewing crane part | | L (ft) | W (ft) | H (ft) | lb (+/- 5%) | |
|-------------------------|---|--------------|------------|------------|------------------|-------|
| Counter-jib |  | 35.4 | 10.2 | 5.6 | 8,300 | |
| |  | 12.1 | 6.2 | 5.6 | 2,172 | |
| |  | 26.9 | 6.2 | 5.6 | 4,575 | |
| Cathead |  | 13.8 | 7.3 | 38.7 | 16,524 | |
| Cab |  Ultra View | 16.5 | 7.3 | 8.2 | 3,704 | |
| Towerhead |  8 ft 8.2 ft | 12.5 12.5 | 14 14 | 9.7 8.7 | 20,349 18,805 | |
| Hoisting winch (+ rope) |  100 LVF 180 LVF GH | 10.4 14 | 5.2 6.6 | 6.2 7.7 | 9,822 20,349 | |
| Jib section |  | ① | 33.7 | 6.6 | 7.8 | 7,066 |
| | | ② 10 DVF | 33.7 | 6.2 | 7.4 | 8,223 |
| | | ④ | 33.6 | 6.2 | 7.3 | 4,729 |
| | | ⑤ | 33.6 | 6.2 | 7.3 | 4,001 |
| | | ⑨ | 33.4 | 6.2 | 6.5 | 2,800 |
| | | ⑩ | 33.2 | 6.2 | 6.4 | 1,764 |
| Jib section |  | ③ | 17.6 | 6.2 | 7.4 | 3,197 |
| | | ⑥ | 17.2 | 6.2 | 7.3 | 2,183 |
| | | ⑦ | 17.1 | 6.2 | 7.3 | 2,480 |
| | | ⑧ | 17.1 | 6.2 | 6.6 | 1,609 |
| Trolley |  22 USt | 5.9 | 7.3 | 5.3 | 1,455 | |
| Pulley block |  22 USt | 3.9 | 1.4 | 7.4 | 1,940 | |
| Trolley |  22 USt | 13.5 | 7.2 | 3.8 | 2,635 | |
| Trolley |  11 USt | 7 | 7.2 | 3.8 | 1,422 | |
| Pulley block |  | 22 USt | 6 | 1.1 | 7.3 | 1,951 |
| | | 11 USt | 3.8 | 0.7 | 5.8 | 981 |

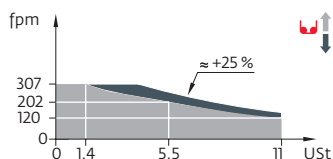
| Crane tower | | | L (ft) | W (ft) | H (ft) | lb (+/- 5%) |
|---|---|---------------------------|--|---|---|---|
| Telescopic cage T 851 |  | □ 8 ft | 36.7 | 15.9 | 19 | 34,723 |
| Telescopic cage |  | □ 8.2 ft | 24.3 | 12 | 19.1 | 13,669 |
| Slider |  | □ 8.2 ft | 36.4 | 6.9 | 6.9 | 15,653 |
| Slider base |  | □ 8.2 ft | 7.7 | 5.2 | 7.7 | 13,140 |
| K 850/KR 849B KM 850-10B KRMT 849A K 849A KR 849A K 850/KR 849A KMT 850.10A KR 849C KRMT 849C |  | □ 8 ft | 33.6 33.9 17.2 17.2 17.2 17.2 17.5 11.7 11.7 | 8.3 8.1 8.4 8.3 8.3 8.3 8.3 8.4 8.4 | 8.2 8.3 8.3 8.2 8.2 8.2 8.2 8.3 8.3 | 20,878 22,201 9,017 7,496 9,458 12,291 12,015 7,044 7,066 |
| R 87 R 86 R 85 |  | □ 8.2 ft | 21 21 21 | 9.5 9.5 9.5 | 9.5 9.5 9.5 | 9,392 8,422 8,157 |
| Fixing angles |  | P 802B P 851A P 80A | 2.5 3 2.6 | 2.5 3 2.6 | 4.2 4.9 4 | 1,025 1,841 4,343 |
| Basic mast unit |  | Y 800B Y 80A | 19.8 19.7 | 9.6 9.8 | 9.6 9.8 | 19,004 16,314 |
| Struts |  | Y 800B Y 80A | 18.1 18 | 1.6 1.4 | 1.5 1.2 | 2,447 1,764 |
| 1/2 Side member |  | Y 800B Y 80A | 18.6 18.4 | 4.1 3.8 | 2.4 2 | 3,351 2,205 |
| Side member |  | Y 800B Y 80A | 39.4 38.9 | 4.1 3.8 | 2.4 2 | 6,724 4,630 |
| Ballast support |  | Y 800B Y 80A | 12.3 15.3 | 1.2 1 | 3 2.2 | 2,392 595 |
| Chassis beam |  | Y 800B Y 80A | 28.5 28.2 | 2.7 2.3 | 2.4 3.8 | 4,938 4,409 |
| Central cross (transport position) |  | YM 850 JM 850 | 17.1 | 5.6 | 4.9 | 14,771 |
| Basic mast unit |  | YM 850 JM 850 | 28.7 | 8.2 | 8.2 | 32,187 |
| Chassis girder |  | YM 850 JM 850 | 12.5 17.1 | 3 3 | 5.1 5.1 | 6,173 7,055 |
| Chassis ties |  | YM 850 JM 850 | 23.6 | 0.8 | 1.1 | 551 |
| Struts |  | YM 850 JM 850 | 24.6 26.9 | 2.5 2.5 | 4.3 4.3 | 4,630 5,071 |
| Cross girder |  | ZX 6830 | 29.9 29.9 | 3.7 2.5 | 3.6 4.9 | 11,607 12,004 |

Mechanisms


















| 480 V - 60 Hz | | |  | | | | |  | | | | | hp | kW |  |
|---|---|-----|---|-----|-----|-----|-----|---|------|-----|-----|-----|--------|---------|---|
|  | 100 LVF 50 Optima | fpm | 120 | 153 | 202 | 258 | 307 | 61 | 79 | 105 | 146 | 154 | 100 | 75 | 3,340 ft |
| | | USt | 11 | 8.3 | 5.5 | 2.8 | 1.4 | 22 | 16.5 | 11 | 5.5 | 4.3 | | | |
|  | 180 LVF 50 GH Optima | fpm | 220 | 267 | 353 | 536 | 805 | 112 | 136 | 182 | 285 | 404 | 180 | 132 | 3,937 ft |
| | | USt | 11 | 8.3 | 5.5 | 2.8 | 0.4 | 22 | 16.5 | 11 | 5.5 | 1.9 | | | |
|  | 10 DVF 10 Optima | fpm | 0 → 262 (22 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt) | | | | | | | | | | 10 | 7.4 |  |
|  | RVF 173 Optima+ | rpm | 0 → 0.9 | | | | | | | | | | 3 x 10 | 3 x 7.5 | |
|  |  | | | | | | | | | | | | | | |

| | | |
|--|---|---|
|  IEC 60204-32 |  kVA | |
| 480 V (+6% -10%) 60 Hz | 100 LVF: 117 → 77 kVA 180 LVF GH: 181 → 109 kVA |  |

100 LVF 50 Optima



These mast combinations meet the EN 14439 and ASME B30.3-2012 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind for the location of the tower crane. The "out of service" design wind speed was determined in accordance with ASCE 7-10, Figure 26.5-A. The wind velocity, used for this configuration was 98 mph (158 kph), which represents a nominal design 3-second wind gust at 33 ft (10 m) above ground for Exposure B category A. Factor of 0.85 was applied to the 50-year ultimate design wind speed of 115 mph (185 kph), per ASCE 37-02, with the assumption that this crane is considered a temporary structure used during a construction period of 2 years or less.

| | | |
|--|---|---|
|  Standard equipment |  Jib weight |  Required power |
|  Options |  Lorry 44 ft |  Power Control Function: winch speeds adapted to the available power |
|  Potain Plus function: Plus load curves |  Container High Cube 40 ft, and/or Flat Rack 20 ft |  Consult us |
|  Hook heights with Plus load curves |  Hoisting | |
|  Reactions in service |  Trolleying | |
|  Reactions out of service |  Slewing | |
|  Total ballast weight |  Travelling | |



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