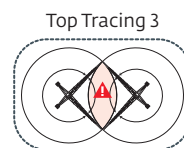
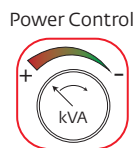
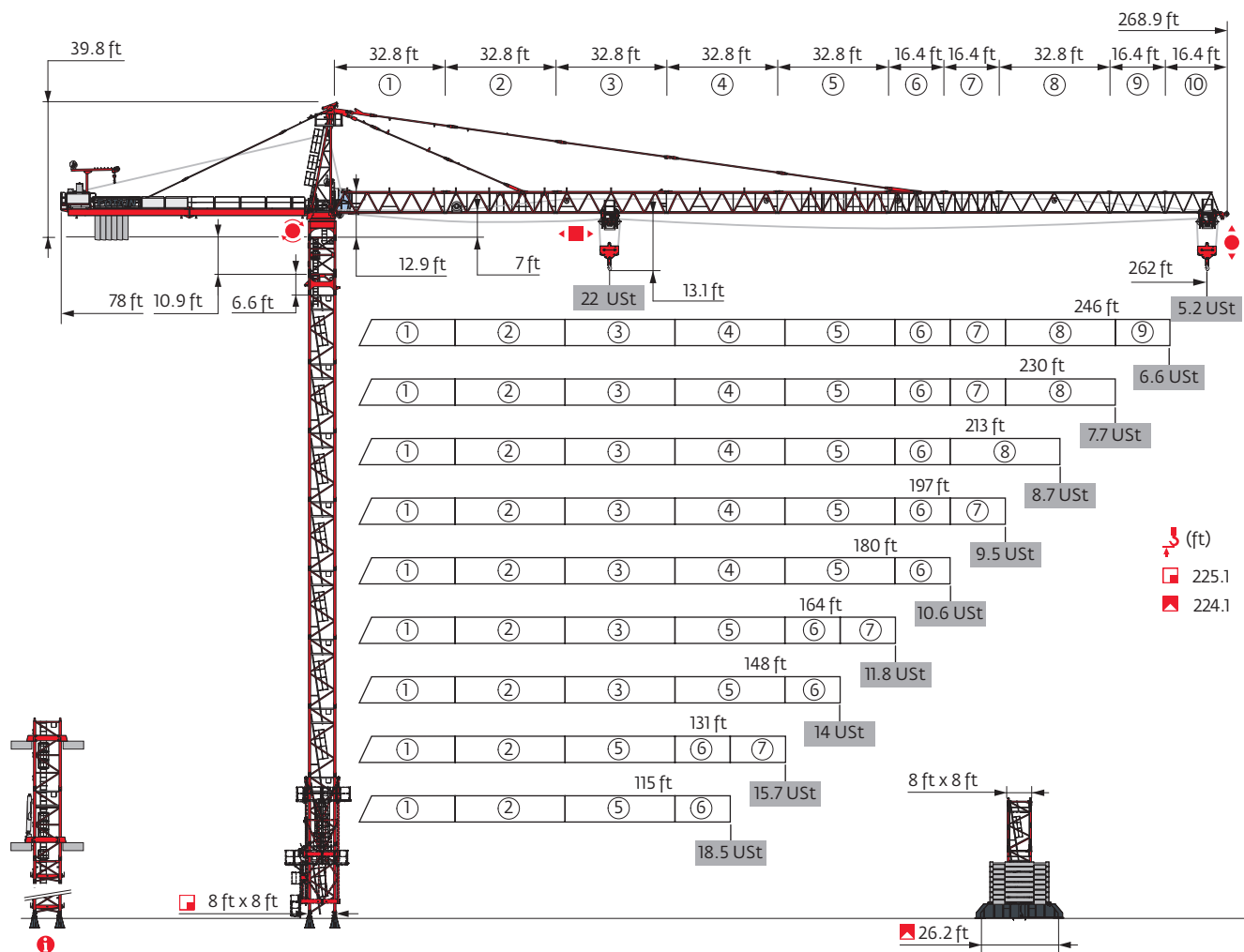



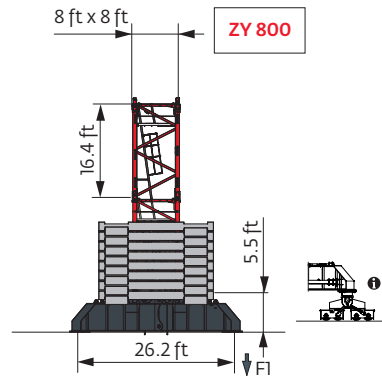
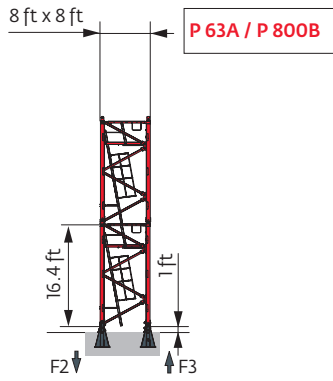
## MD 559



Mast - Reactions

| 8 ft - P 800B         |       |       |       |       |       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height (ft)           | 115   | 131   | 148   | 164   | 180   | 197   | 213   | 230   | 246   | 262   |
| ↓ (ft)                | 219.5 | 219.5 | 219.5 | 225.1 | 219.5 | 219.5 | 219.5 | 213.9 | 208.7 | 208.7 |
| ↓/P <sub>r</sub> (ft) | 219.5 | 219.5 | 219.5 | 225.1 | 219.5 | 219.5 | 219.5 | 213.9 | 208.7 | 208.7 |
| 10.9 ft               | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 6.6 ft                | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 10.9 ft               | 1     | 1     | 1     | 0     | 1     | 1     | 1     | 2     | 0     | 0     |
| 16.4 ft               | 12    | 12    | 12    | 13    | 12    | 12    | 12    | 11    | 12    | 12    |
| F2 (Ust)              | ● 252 | 250   | 251   | 250   | 250   | 254   | 260   | 257   | 251   | 250   |
|                       | ■ 287 | 290   | 285   | 305   | 293   | 293   | 289   | 280   | 263   | 267   |
| F3 (Ust)              | ● 168 | 165   | 173   | 160   | 167   | 168   | 173   | 168   | 161   | 158   |
|                       | ■ 214 | 215   | 208   | 225   | 210   | 207   | 202   | 191   | 173   | 176   |

| 8 ft - ZY 800 -  |       |       |       |       |       |       |       |       |       |       |
|---|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Height (ft)   | 115   | 131   | 148   | 164   | 180   | 197   | 213   | 230   | 246   | 262   |
| ↓ (ft)  | 218.5 | 218.5 | 212.9 | 224.1 | 218.5 | 218.5 | 218.5 | 212.9 | 207.7 | 207.7 |
| ↓/P <sub>r</sub> (ft)   | 196.5 | 196.5 | 185.7 | 196.5 | 191.3 | 196.5 | 196.5 | 202.1 | 207.7 | 207.7 |
| 10.9 ft   | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 6.6 ft  | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     | 1     |
| 10.9 ft   | 2     | 2     | 0     | 1     | 2     | 2     | 2     | 0     | 1     | 1     |
| 16.4 ft   | 11    | 11    | 12    | 12    | 11    | 11    | 11    | 12    | 11    | 11    |
| F1 (Ust)  | ● 141 | 139   | 137   | 141   | 142   | 143   | 144   | 146   | 146   | 146   |
|   | ■ 134 | 135   | 126   | 143   | 137   | 138   | 137   | 136   | 134   | 136   |



**i** Other mast compositions - Please consult us.

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

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 - ZY 800 - |       |      |      |      |      |      |      |       |       |       |
|--------------------------|-------|------|------|------|------|------|------|-------|-------|-------|
| △△△ (ft)                 | 115   | 131  | 148  | 164  | 180  | 197  | 213  | 230   | 246   | 262   |
| 224.1                    |       |      |      | 92.6 |      |      |      |       |       |       |
| 218.5                    | 105.8 | 92.6 |      | 92.6 | 92.6 | 92.6 | 92.6 |       |       |       |
| 212.9                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 105.8 |       |       |
| 207.7                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 105.8 | 105.8 | 105.8 |
| 191.3                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 105.8 | 105.8 |
| 174.9                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 105.8 |
| 158.5                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 92.6  |
| 142.1                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 92.6  |
| 125.7                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 92.6  |
| 109.3                    | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 92.6  |
| 92.9                     | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 92.6  |
| 76.4                     | 92.6  | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6 | 92.6  | 92.6  | 92.6  |

Load curves

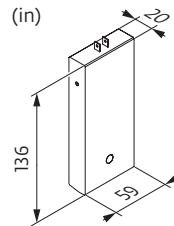


| (ft) |         | 72 | 82 | 89   | 98   | 105  | 115  | 121    | 131  | 138    | 148    | 154  | 164  | 171    | 180  | 187    | 197 | 203    | 213 | 220    | 230 | 236    | 246 | 253    | 262 | ft     |
|------|---------|----|----|------|------|------|------|--------|------|--------|--------|------|------|--------|------|--------|-----|--------|-----|--------|-----|--------|-----|--------|-----|--------|
|      | 22 USt  |    |    |      |      |      |      |        |      |        |        |      |      |        |      |        |     |        |     |        |     |        |     |        |     |        |
| 262  | 10 → 84 | 22 | 22 | 20.6 | 18.2 | 16.9 | 15.1 | 14.1   | 12.8 | 12.1   | 11.1   | 10.5 | 9.8  | 9.3    | 8.7  | 8.3    | 7.7 | 7.4    | 7   | 6.7    | 6.2 | 5.9    | 5.5 | 5.2    | 4.9 | USt    |
|      | 10 → 86 | 22 | 22 | 21.3 | 18.9 | 17.5 | 15.7 | 14.7   | 13.3 | 12.6   | 11.6   | 11   | 10.2 | 9.7    | 9.1  | 8.7    | 8.1 | 7.8    | 7.4 | 7.1    | 6.6 | 6.3    | 5.9 | 5.6    | 5.2 | USt P+ |
| 246  | 10 → 90 | 22 | 22 | 22   | 19.9 | 18.5 | 16.6 | 15.6   | 14.2 | 13.4   | 12.3   | 11.6 | 10.8 | 10.3   | 9.5  | 9.1    | 8.5 | 8.2    | 7.7 | 7.4    | 6.9 | 6.7    | 6.3 | USt    |     |        |
|      | 10 → 91 | 22 | 22 | 22   | 20.3 | 18.9 | 17   | 16     | 14.6 | 13.8   | 12.7   | 12   | 11.2 | 10.6   | 9.9  | 9.5    | 8.9 | 8.5    | 8   | 7.7    | 7.3 | 7      | 6.6 | USt P+ |     |        |
| 230  | 10 → 93 | 22 | 22 | 22   | 20.7 | 19.2 | 17.3 | 16.2   | 14.8 | 14     | 12.9   | 12.2 | 11.3 | 10.8   | 10.1 | 9.6    | 9   | 8.7    | 8.1 | 7.8    | 7.4 | USt    |     |        |     |        |
|      | 10 → 94 | 22 | 22 | 22   | 21.1 | 19.6 | 17.7 | 16.6   | 15.2 | 14.4   | 13.3   | 12.6 | 11.7 | 11.2   | 10.4 | 10     | 9.4 | 9      | 8.5 | 8.2    | 7.7 | USt P+ |     |        |     |        |
| 213  | 10 → 95 | 22 | 22 | 22   | 21.2 | 19.7 | 17.8 | 16.7   | 15.2 | 14.4   | 13.2   | 12.5 | 11.6 | 11.1   | 10.4 | 9.9    | 9.3 | 8.9    | 8.4 | USt    |     |        |     |        |     |        |
|      | 10 → 96 | 22 | 22 | 22   | 21.6 | 20.1 | 18.1 | 17     | 15.6 | 14.7   | 13.6   | 12.9 | 12   | 11.4   | 10.7 | 10.2   | 9.6 | 9.2    | 8.7 | USt P+ |     |        |     |        |     |        |
| 197  | 10 → 94 | 22 | 22 | 22   | 20.9 | 19.4 | 17.5 | 16.4   | 15   | 14.2   | 13     | 12.4 | 11.5 | 10.9   | 10.2 | 9.8    | 9.1 | USt    |     |        |     |        |     |        |     |        |
|      | 10 → 95 | 22 | 22 | 22   | 21.3 | 19.8 | 17.9 | 16.8   | 15.4 | 14.5   | 13.4   | 12.7 | 11.8 | 11.3   | 10.5 | 10.1   | 9.5 | USt P+ |     |        |     |        |     |        |     |        |
| 180  | 10 → 94 | 22 | 22 | 22   | 21   | 19.5 | 17.6 | 16.5   | 15.1 | 14.2   | 13.1   | 12.4 | 11.5 | 11     | 10.3 | USt    |     |        |     |        |     |        |     |        |     |        |
|      | 10 → 96 | 22 | 22 | 22   | 21.3 | 19.8 | 17.9 | 16.8   | 15.4 | 14.6   | 13.4   | 12.8 | 11.9 | 11.3   | 10.6 | USt P+ |     |        |     |        |     |        |     |        |     |        |
| 164  | 10 → 94 | 22 | 22 | 22   | 20.9 | 19.4 | 17.5 | 16.4   | 15   | 14.1   | 13     | 12.4 | 11.5 | USt    |      |        |     |        |     |        |     |        |     |        |     |        |
|      | 10 → 95 | 22 | 22 | 22   | 21.2 | 19.7 | 17.8 | 16.7   | 15.3 | 14.5   | 13.4   | 12.7 | 11.8 | USt P+ |      |        |     |        |     |        |     |        |     |        |     |        |
| 148  | 10 → 98 | 22 | 22 | 22   | 21.9 | 20.3 | 18.3 | 17.2   | 15.7 | 14.8   | 13.7   | USt  |      |        |      |        |     |        |     |        |     |        |     |        |     |        |
|      | 10 → 99 | 22 | 22 | 22   | 20.6 | 18.7 | 17.5 | 16     | 15.2 | 14     | USt P+ |      |      |        |      |        |     |        |     |        |     |        |     |        |     |        |
| 131  | 10 → 96 | 22 | 22 | 22   | 21.4 | 19.8 | 17.9 | 16.8   | 15.3 | USt    |        |      |      |        |      |        |     |        |     |        |     |        |     |        |     |        |
|      | 10 → 97 | 22 | 22 | 22   | 21.7 | 20.2 | 18.2 | 17.1   | 15.7 | USt P+ |        |      |      |        |      |        |     |        |     |        |     |        |     |        |     |        |
| 115  | 10 → 97 | 22 | 22 | 22   | 21.7 | 20.2 | 18.2 | USt    |      |        |        |      |      |        |      |        |     |        |     |        |     |        |     |        |     |        |
|      | 10 → 98 | 22 | 22 | 22   | 22   | 20.5 | 18.5 | USt P+ |      |        |        |      |      |        |      |        |     |        |     |        |     |        |     |        |     |        |

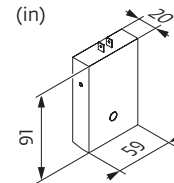
Jib weight & counter-jib ballast

| ft     |        |           |          |        |
|--------|--------|-----------|----------|--------|
|        |        | 13,228 lb | 8,818 lb |        |
| 262 ft | 57,739 | 6         | 0        | 79,366 |
| 246 ft | 56,637 | 5         | 1        | 74,957 |
| 230 ft | 54,983 | 4         | 2        | 70,548 |
| 213 ft | 52,591 | 4         | 1        | 61,729 |
| 197 ft | 51,908 | 3         | 2        | 57,320 |
| 180 ft | 49,516 | 3         | 1        | 48,502 |
| 164 ft | 45,801 | 2         | 1        | 35,274 |
| 148 ft | 43,409 | 1         | 2        | 30,865 |
| 131 ft | 39,165 | 1         | 1        | 22,046 |
| 115 ft | 36,784 | 0         | 2        | 17,637 |

CBC - 13,228 lb



CBD - 8,818 lb

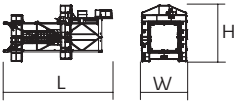

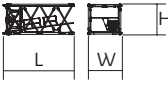
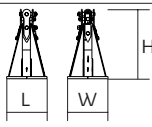
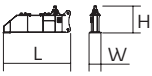



Dimensions and weight








Slewing crane part:  262 ft -  320 LVF






| Slewing crane part       |            | L (ft)   | W (ft) | H (ft) | Ib (+/- 5%) |        |
|--------------------------|------------|----------|--------|--------|-------------|--------|
| Counter-jib              |            | 38.4     | 15.4   | 6.4    | 14,551      |        |
|                          |            | 36.2     | 12.3   | 6.8    | 10,858      |        |
| Cathead                  |            | 11.6     | 6.5    | 32.3   | 18,221      |        |
| Cab                      | Ultra View | 16.4     | 8.2    | 9.1    | 4,134       |        |
| Towerhead                | 8 ft       | 12.1     | 9.5    | 12.7   | 24,670      |        |
| Hoisting winch (+ rope)  | 320 LVF    | 16.7     | 7.5    | 7.3    | 21,793      |        |
| Intermediate winch frame |            | 10.7     | 9.5    | 5.4    | 12,485      |        |
| Jib section              |            | ①        | 34     | 6.2    | 8.3         | 11,244 |
|                          |            | ② 15 DVF | 33.9   | 6.2    | 7.7         | 11,442 |
|                          |            | ③        | 33.6   | 6.2    | 7.9         | 6,636  |
|                          |            | ④        | 33.6   | 6.2    | 7.6         | 6,107  |
|                          |            | ⑤        | 33.6   | 6.2    | 7.6         | 6,250  |
| Jib section              |            | ⑧        | 33.5   | 6.2    | 6.6         | 3,075  |
|                          |            | ⑥        | 17.5   | 6.2    | 7.4         | 3,803  |
|                          |            | ⑦        | 17.2   | 6.2    | 6.7         | 2,381  |
|                          |            | ⑨        | 17     | 6.2    | 6.5         | 1,213  |
| Trolley                  |            | ⑩        | 16.7   | 6.2    | 6.5         | 1,102  |
|                          |            |          | 6.4    | 7.3    | 5.5         | 1,731  |
| Pulley block             |            | 5.5      | 0.9    | 8      | 1,257       |        |


















| Crane Tower   |   | L (ft)         | W (ft)                               | H (ft)                          | lb (+/- 5%)                     |  |
|---|---|----------------|--------------------------------------|---------------------------------|---------------------------------|--|
| Telescopic cage T 851                                     |  | 8 ft           | 36.7                                 | 15.9                            | 19                              | 34,723                                     |
| K 84/K 84-2<br>Telescoping mast                           |  | 8 ft           | 7.3                                  | 10.6                            | 8.2                             | 6,724                                      |
| KRM 849B<br>KMT 849A<br>KR 849A<br>KRMT 849A<br>KRMT 849C |  | 8 ft           | 33.6<br>17.2<br>17.2<br>17.2<br>11.7 | 8.4<br>8.4<br>8.3<br>8.4<br>8.4 | 8.3<br>8.3<br>8.2<br>8.3<br>8.3 | 17,196<br>6,945<br>9,458<br>9,017<br>7,066 |
| Fixing angles   |  | P 63A / P 800B | 2.5                                  | 2.5                             | 4.2                             | 1,025                                      |
| 1/2 Cross girder  |  | ZY 800         | 18.6                                 | 3.2                             | 6.3                             | 10,406                                     |
| Cross girder  |  | ZY 800         | 39.2                                 | 4.6                             | 6.3                             | 22,212                                     |

Mechanisms

| 480 V - 60 Hz   |   |            |  |             |           |            |            | hp     | kW      |  |
|---|---|------------|---|-------------|-----------|------------|------------|--------|---------|---|
|  | <b>320 LVF 100 Optima</b>   | fpm<br>USt | 220<br>22   | 282<br>16.5 | 387<br>11 | 486<br>7.5 | 531<br>6.6 | 320    | 240     | 1,745 ft  |
|  | <b>15 DVF 16 Optima</b>   | fpm        | 0 → 164 (22 USt) 0 → 220 (11 USt) 0 → 328 (2.8 USt)                               |             |           |            |            | 15     | 11      |   |
|  | <b>RVF 173 Optima+</b>  | rpm        | 0 → 0.8   |             |           |            |            | 3 x 10 | 3 x 7.5 |   |
|  |  |            |   |             |           |            |            |        |         |   |

|  IEC 60204-32 |  kVA |   |
|--|---|---|
| 480 V(+6% -10%) 60 Hz  | 297 → 169 kVA   |  |

These mast combinations meet the EN 14439 and ASME B30.3-2016 specifications for "out of service" wind conditions, provided the illustrated wind speed matches required design wind speed for the location of the tower crane. The "out of service" design wind speed was determined in accordance with ASCE 7-10, Figure 26.5-1A. 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 700-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  |   |   |

 This commercial document is not legally binding. For any technical information, please refer to the corresponding instructions.

