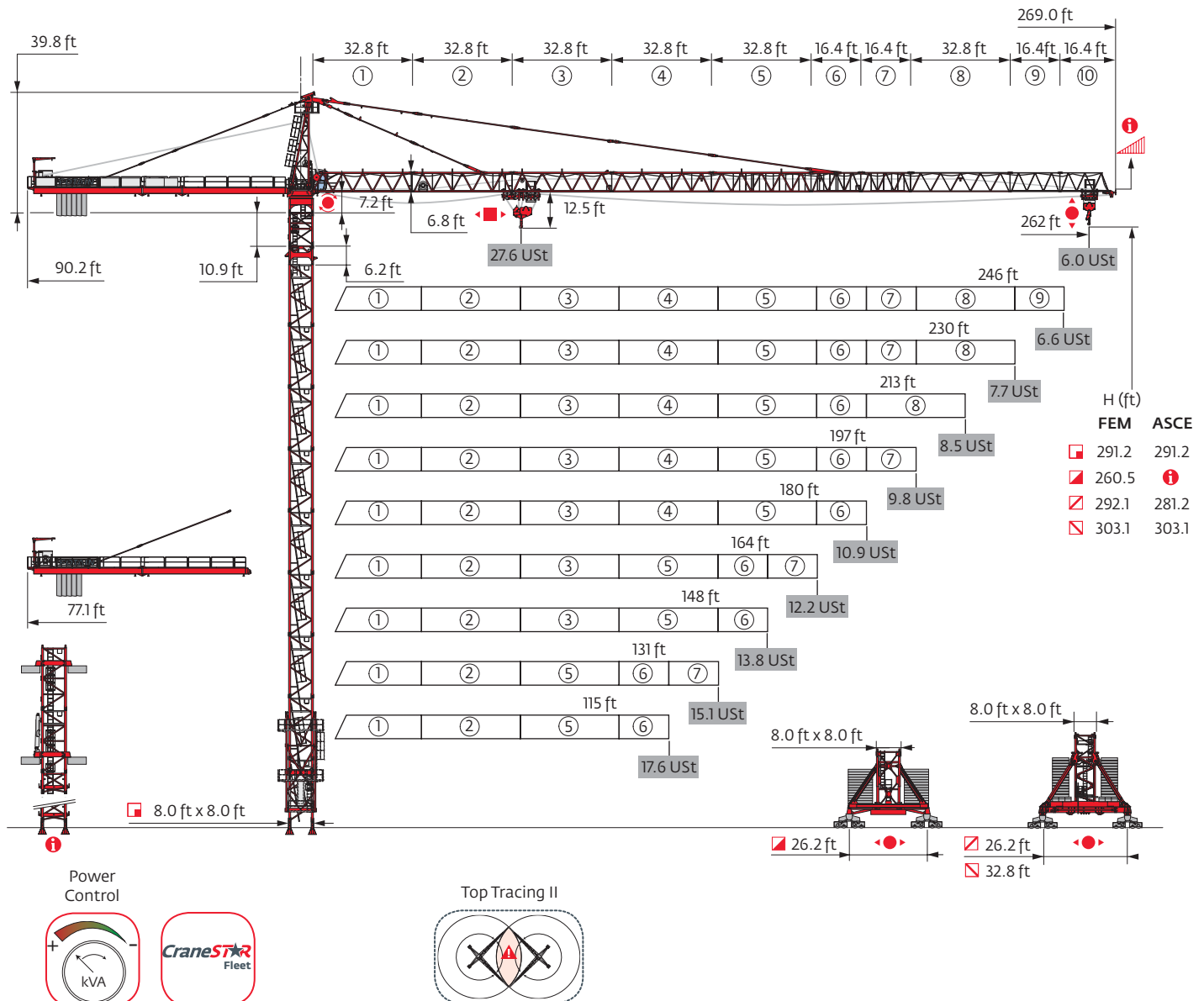


MD 560 B M25

Data Sheet

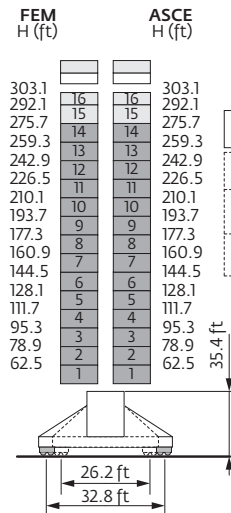
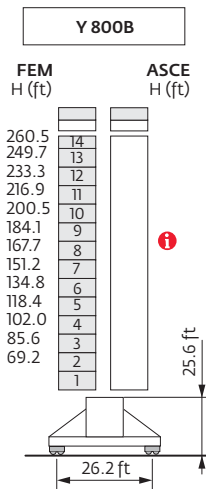
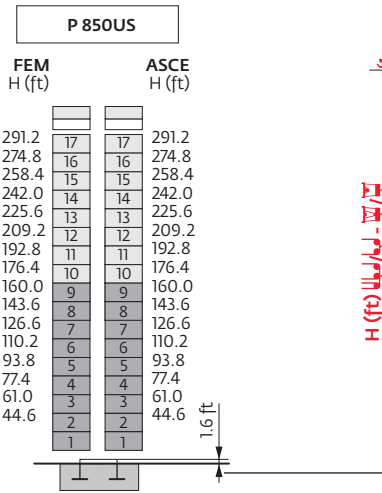
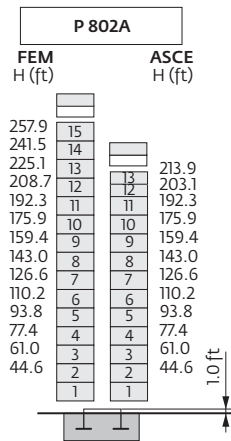
FEM 1.001-A3
ASCE 7-10



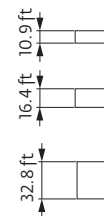
Mast

8.0 ft

115 ft → 262 ft



| JM 850 (32.8 ft) | |
|------------------|----------|
| YM 850 (26.2 ft) | |
| | |
| FEM | ASCE |
| H | 292.1 ft |
| | 281.2 ft |



Y 800B



H1 = H



H2 = H - 2.6 ft



H3 = H - 3.9 ft

YM 850
JM 850



H1 = H



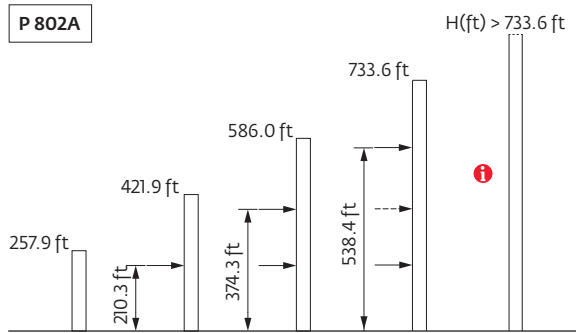
H3 = H - 4.6 ft

□ = Non-reinforced mast
 ■ = Reinforced mast
 ■ = K850 mast

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.



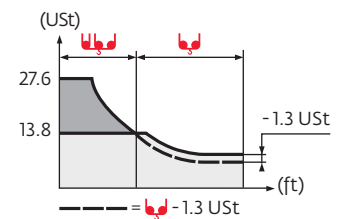
Anchorages (Consult us for ASCE 7-10 values)



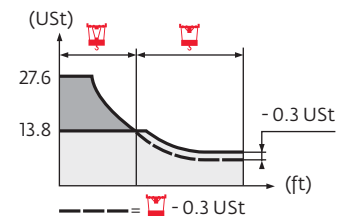
Load charts



| | | | | | | | | | | | | | | | | | | | | | |
|--------|------|---|--|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 262 ft | 12.3 | ▶ | | 69 | 72 | 82 | 89 | 98 | 105 | 115 | 123 | 132 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 | ft |
| ▲▼▲ | | | | 27.6 | 26 | 22.4 | 20.5 | 18.1 | 16.6 | 15.0 | 13.8 | 13.8 | 12.1 | 10.7 | 9.6 | 8.6 | 7.8 | 7.1 | 6.5 | 6.0 | USt |
| 246 ft | 12.3 | ▶ | | 69 | 72 | 82 | 89 | 98 | 105 | 115 | 124 | 134 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | | ft |
| ▲▼▲ | | | | 27.6 | 26.2 | 22.6 | 20.6 | 18.2 | 16.9 | 15.1 | 13.8 | 13.8 | 12.2 | 10.8 | 9.7 | 8.7 | 7.9 | 7.2 | 6.6 | | USt |
| 230 ft | 12.3 | ▶ | | | 72 | 82 | 89 | 98 | 105 | 115 | 130 | 140 | 148 | 164 | 180 | 197 | 213 | | 230 | | ft |
| ▲▼▲ | | | | | 27.6 | 23.8 | 21.7 | 19.3 | 17.9 | 16.0 | 13.8 | 13.8 | 13.0 | 11.5 | 10.3 | 9.3 | 8.5 | 7.7 | | | USt |
| 213 ft | 12.3 | ▶ | | | 73 | 82 | 89 | 98 | 105 | 115 | 130 | 141 | 148 | 164 | 180 | 197 | 213 | | | | ft |
| ▲▼▲ | | | | | 27.6 | 23.9 | 21.8 | 19.3 | 17.9 | 16.1 | 13.8 | 13.8 | 13.1 | 11.6 | 10.4 | 9.4 | 8.5 | | | | USt |
| 197 ft | 12.3 | ▶ | | | 75 | 82 | 89 | 98 | 105 | 115 | 136 | 147 | 148 | 164 | 180 | 197 | | | | | ft |
| ▲▼▲ | | | | | 27.6 | 25.0 | 22.9 | 20.3 | 18.8 | 16.9 | 13.8 | 13.8 | 13.7 | 12.1 | 10.9 | 9.8 | | | | | USt |
| 180 ft | 12.3 | ▶ | | | 76 | 82 | 89 | 98 | 105 | 115 | 136 | 147 | 148 | 164 | 180 | | | | | | ft |
| ▲▼▲ | | | | | 27.6 | 25.1 | 23.0 | 20.4 | 18.8 | 17.0 | 13.8 | 13.8 | 13.8 | 12.2 | 10.9 | | | | | | USt |
| 164 ft | 12.3 | ▶ | | | 76 | 82 | 89 | 98 | 105 | 115 | 131 | 137 | 148 | 164 | | | | | | | ft |
| ▲▼▲ | | | | | 27.6 | 25.2 | 23.1 | 20.5 | 19.0 | 17.1 | 14.6 | 13.8 | 13.8 | 12.2 | | | | | | | USt |
| 148 ft | 12.3 | ▶ | | | 76 | 82 | 89 | 98 | 105 | 115 | 131 | 136 | 148 | | | | | | | | ft |
| ▲▼▲ | | | | | 27.6 | 25.2 | 23.0 | 20.4 | 19.0 | 17.0 | 14.4 | 13.8 | 13.8 | | | | | | | | USt |
| 131 ft | 12.3 | ▶ | | | 76 | 82 | 89 | 98 | 105 | 115 | 131 | | | | | | | | | | |
| ▲▼▲ | | | | | 27.6 | 25.4 | 23.1 | 20.5 | 19.1 | 17.1 | 14.6 | | | | | | | | | | USt |
| 115 ft | 12.3 | ▶ | | | 76 | 82 | 89 | 98 | 105 | 115 | | | | | | | | | | | |
| ▲▼▲ | | | | | 27.6 | 25.4 | 23.1 | 20.5 | 19.0 | 17.1 | | | | | | | | | | | USt |



| | | | | | | | | | | | | | | | | | | | | | |
|--------|---|---|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|-----|-----|-----|-----|-----|
| 262 ft | 9 | ▶ | 70 | 72 | 82 | 89 | 98 | 105 | 115 | 126 | 129 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | 262 | ft |
| ▲▲▲ | | | 27.6 | 26.5 | 22.9 | 20.9 | 18.5 | 17.2 | 15.4 | 13.8 | 13.8 | 13.4 | 11.7 | 10.3 | 9.1 | 8.2 | 7.4 | 6.6 | 6.1 | 5.5 | USt |
| 246 ft | 9 | ▶ | 70 | 72 | 82 | 89 | 98 | 105 | 115 | 128 | 130 | 131 | 148 | 164 | 180 | 197 | 213 | 230 | 246 | ft | |
| ▲▲▲ | | | 27.6 | 26.7 | 23.1 | 21.2 | 18.7 | 17.4 | 15.7 | 13.8 | 13.8 | 13.7 | 11.8 | 10.4 | 9.3 | 8.3 | 7.5 | 6.7 | 6.2 | USt | |
| 230 ft | 9 | ▶ | | 73 | 82 | 89 | 98 | 105 | 115 | 131 | 134 | 136 | 148 | 164 | 180 | 197 | 213 | 230 | ft | | |
| ▲▲▲ | | | | 27.6 | 24.4 | 22.3 | 19.7 | 18.3 | 16.5 | 14.1 | 13.8 | 13.8 | 12.6 | 11.0 | 9.8 | 8.8 | 8.0 | 7.3 | USt | | |
| 213 ft | 9 | ▶ | | 74 | 82 | 89 | 98 | 105 | 115 | 131 | 135 | 137 | 148 | 164 | 180 | 197 | 213 | ft | | | |
| ▲▲▲ | | | | 27.6 | 24.5 | 22.4 | 19.8 | 18.4 | 16.6 | 14.2 | 13.8 | 13.8 | 12.6 | 11.1 | 9.9 | 8.9 | 8.0 | USt | | | |
| 197 ft | 9 | ▶ | | 77 | 82 | 89 | 98 | 105 | 115 | 131 | 140 | 143 | 148 | 164 | 180 | 197 | ft | | | | |
| ▲▲▲ | | | | 27.6 | 25.6 | 23.5 | 20.8 | 19.3 | 17.4 | 14.9 | 13.8 | 13.8 | 13.2 | 11.7 | 10.5 | 9.4 | USt | | | | |
| 180 ft | 9 | ▶ | | 77 | 82 | 89 | 98 | 105 | 115 | 131 | 141 | 143 | 148 | 164 | 180 | ft | | | | | |
| ▲▲▲ | | | | 27.6 | 25.7 | 23.6 | 20.9 | 19.4 | 17.5 | 15.0 | 13.8 | 13.8 | 13.3 | 11.8 | 10.5 | USt | | | | | |
| 164 ft | 9 | ▶ | | 77 | 82 | 89 | 98 | 105 | 115 | 131 | 141 | 144 | 148 | 164 | ft | | | | | | |
| ▲▲▲ | | | | 27.6 | 25.8 | 23.7 | 20.9 | 19.5 | 17.5 | 15.0 | 13.8 | 13.8 | 13.3 | 11.8 | USt | | | | | | |
| 148 ft | 9 | ▶ | | 77 | 82 | 89 | 98 | 105 | 115 | 131 | 141 | 144 | 148 | ft | | | | | | | |
| ▲▲▲ | | | | 27.6 | 25.8 | 23.6 | 20.9 | 19.5 | 17.5 | 15.0 | 13.8 | 13.8 | 13.3 | USt | | | | | | | |
| 131 ft | 9 | ▶ | | 78 | 82 | 89 | 98 | 105 | 115 | 131 | ft | | | | | | | | | | |
| ▲▲▲ | | | | 27.6 | 25.9 | 23.7 | 21.1 | 19.6 | 17.6 | 15.1 | USt | | | | | | | | | | |
| 115 ft | 9 | ▶ | | 77 | 82 | 89 | 98 | 105 | 115 | ft | | | | | | | | | | | |
| ▲▲▲ | | | | 27.6 | 25.9 | 23.7 | 21.1 | 19.5 | 17.6 | USt | | | | | | | | | | | |



Base ballast

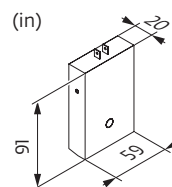
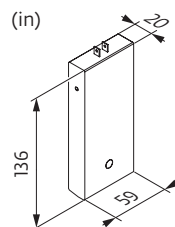
| | | | | | | | | | | | | | | | |
|--------|--------|------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 8.0 ft | Y 800B | H (ft) | 260.5 | 249.6 | 233.3 | 216.8 | 200.5 | 184.1 | 167.7 | 151.2 | 134.8 | 118.4 | 102.0 | 85.6 | 69.2 |
| | | FEM (USt) | 119.0 | 105.8 | 92.6 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 | 79.4 |
| | | ASCE (USt) | | | | | | | | | | | | | |
| | YM 850 | H (ft) | 292.1 | 281.2 | | | | | | | | | | | |
| | | FEM (USt) | 172.0 | - | | | | | | | | | | | |
| | | ASCE (USt) | - | 145.5 | | | | | | | | | | | |
| | JM 850 | H (ft) | 303.1 | 292.1 | 275.7 | 259.3 | 242.9 | 226.5 | 210.1 | 193.7 | 177.3 | 160.9 | 144.5 | 128.1 | 111.7 |
| | | FEM (USt) | 132.3 | | | | | | | | | | | | |
| | | ASCE (USt) | 132.3 | | | | | | | | | | | | |

Counter-jib ballast

| | ▲▲▲▲ (lb) (+/- 5%) | | 100 LVF ■■■■ | | | 180 LVF GH ■■■■ | | |
|--------|-----------------------|--------|--------------|---------|-----------|-----------------|---------|-----------|
| | ▲▲▲▲ | ▲▲▲▲ | 13,228 lb | 8818 lb | ▲▲▲▲ (lb) | 13,228 lb | 8818 lb | ▲▲▲▲ (lb) |
| 262 ft | 56,582 | 57,618 | 6 | 0 | 79,366 | 4 | 2 | 70,548 |
| 246 ft | 55,314 | 56,350 | 5 | 1 | 74,957 | 3 | 3 | 66,139 |
| 230 ft | 53,859 | 54,895 | 5 | 1 | 74,957 | 2 | 4 | 61,729 |
| 213 ft | 51,643 | 52,679 | 5 | 0 | 66,139 | 1 | 5 | 57,320 |
| 197 ft | 50,905 | 51,941 | 5 | 0 | 66,139 | 2 | 3 | 52,911 |
| 180 ft | 48,755 | 49,780 | 4 | 1 | 61,729 | 1 | 4 | 48,502 |
| 164 ft | 45,239 | 46,275 | 5 | 0 | 66,139 | 2 | 3 | 52,911 |
| 148 ft | 43,089 | 44,126 | 4 | 1 | 61,729 | 2 | 3 | 52,911 |
| 131 ft | 39,121 | 40,157 | 2 | 3 | 52,911 | 1 | 3 | 39,683 |
| 115 ft | 37,412 | 38,449 | 1 | 4 | 48,502 | 0 | 4 | 35,274 |

CBC - 13,228 lb


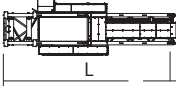

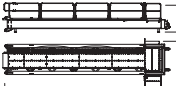
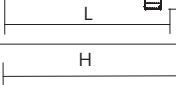
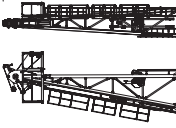

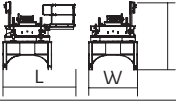
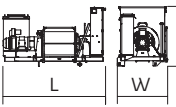
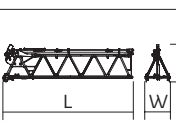
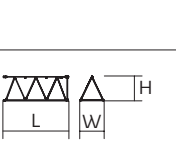
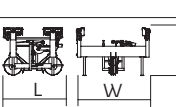

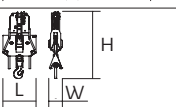

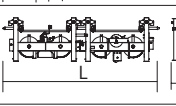

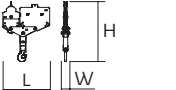

CBD - 8818 lb



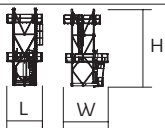
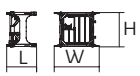
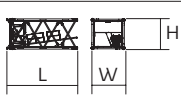
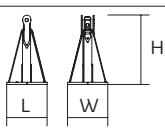
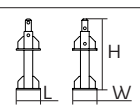
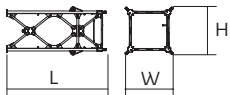
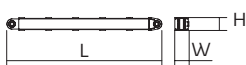
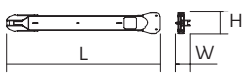

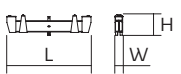
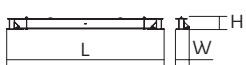
Component weights

Crane upper : 262 ft - 100 LVF













| | | | L (ft) | W (ft) | H (ft) | lb (+/- 5%) |
|-------------------------|---|---|--------|--------|--------|----------------|
| Counter-jib |  | | 38.4 | 13.5 | 6.4 | 14,308 |
| |  | | | | | |
| |  | | 13.8 | 6.6 | 6.4 | 4365 |
| |  | | | | | |
| |  | | 36.2 | 11.7 | 6.8 | 10,858 |
| Towerhead |  | | 11.0 | 6.5 | 32.3 | 19,731 |
| Cab |  | UltraView | 16.4 | 8.2 | 9.1 | 4134 |
| Pivot |  | 8.0 ft | 12.1 | 9.5 | 12.7 | 24,670 |
| Hoisting winch (+ rope) |  | 100 LVF | 10.4 | 5.2 | 5.7 | 9138 |
| | | 180 LVF GH | 14.0 | 6.3 | 6.2 | 20,349 |
| Jib section |  | ① | 34.0 | 9.7 | 10.2 | 11,354 |
| | | ② 10 DVF | 33.9 | 6.2 | 7.7 | 10,737 |
| | | ③ | 33.5 | 6.2 | 7.9 | 6537 |
| | | ④ | 33.6 | 6.2 | 7.6 | 5897 |
| | | ⑤ | 33.6 | 6.2 | 7.6 | 6162 |
| | | ⑧ | 33.5 | 6.2 | 6.6 | 2987 |
| Jib section |  | ⑥ | 17.5 | 6.2 | 7.2 | 3748 |
| | | ⑦ | 17.2 | 6.2 | 6.7 | 2271 |
| | | ⑨ | 17.0 | 6.2 | 6.5 | 1202 |
| | | ⑩ | 16.9 | 6.2 | 6.5 | 1102 |
| Trolley |  |  27.6 USt | 5.9 | 7.4 | 4.7 | 1676 |
| Hook block |  |  27.6 USt | 3.9 | 1.4 | 7.8 | 1874 |
| Trolley |  |  27.6 USt | 13.5 | 7.2 | 3.8 | 2635 |
| Hook block |  |  27.6 USt | 6.0 | 1.1 | 7.7 | 1995 |

Component weights

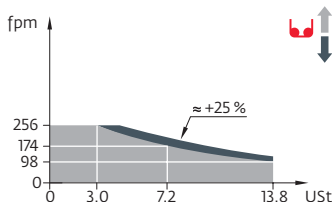
| | | | L (ft) | W (ft) | H (ft) | lb (+/- 5%) |
|------------------------------|---|----------|--------------|------------|------------|----------------|
| Climbing cage |  | □ 8.0 ft | 15.2 | 19.0 | 33.6 | 28,484 |
| K 849/K 849 Climbing mast |  | □ 8.0 ft | 7.0 | 10.7 | 8.2 | 6581 |
| KRMT 849A KRMT 849C |  | □ 8.0 ft | 17.2 11.7 | 8.4 8.4 | 8.3 8.3 | 9017 7066 |
| Fixing angles |  | P 802A | 2.5 | 2.5 | 4.2 | 1193 |
| Fixing angles |  | P 850US | 2.3 | 2.3 | 5.5 | 2127 |
| Chassis mast |  | Y 800B | 19.8 | 9.6 | 9.6 | 19,004 |
| Struts |  | Y 800B | 18.1 | 1.6 | 1.5 | 2447 |
| 1/2 Side member |  | Y 800B | 18.6 | 4.1 | 2.4 | 3351 |
| Side member |  | Y 800B | 39.4 | 4.1 | 2.4 | 6724 |
| Ballast support |  | Y 800B | 12.3 | 1.2 | 3.0 | 2392 |
| Chassis beam |  | Y 800B | 28.5 | 2.7 | 2.4 | 4938 |

Mechanisms










| 480 V - 60 Hz | | |  | | | | |  | | | | | hp | kW |  |
|---|----------------------|-----|---|-----|-----|-----|-----|---|------|-----|-----|-----|---------|---------|---|
|  | 100 LVF 63 Optima | fpm | 98 | 174 | 240 | 256 | | 49 | 89 | 121 | 128 | | 100 | 75 | 2382 ft |
| | | USt | 13.8 | 7.2 | 4.9 | 3.0 | | 27.6 | 14.3 | 9.7 | 6.0 | | | | |
|  | 180 LVF 63 GH Optima | fpm | 174 | 302 | 397 | 538 | 627 | 92 | 167 | 233 | 302 | 315 | | | |
| | | USt | 13.8 | 7.2 | 4.9 | 3.0 | 1.8 | 27.6 | 14.3 | 9.7 | 6.0 | 5.5 | 180 | 132 | 3937 ft |
|  | 10 DVF 10 | fpm | 0 → 210 (27.6 USt) 0 → 328 (13.8 USt) 0 → 361 (6.9 USt) | | | | | | | | | | 10 | 7.4 | |
|  | RVF 173 Optima+ | rpm | 0 → 1 | | | | | | | | | | 3 x 10 | 3 x 7.5 | |
|  | RT 584 A1 - 2V | fpm | 28 - 56 | | | | | | | | | | 8 x 8.4 | 8 x 6.2 | |










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

100 LVF 63 Optima



Key

| | |
|---|--|
|  | Jib elevation |
|  | Standard equipment |
|  | Options |
|  | Reactions in service |
|  | Reactions out of service |
|  | Weight without load, without ballast, with jib and max. height |
|  | Total ballast weight |
|  | Truck 44 ft |
|  | Container High Cube 40 ft, and/or Flat Rack 20 ft |

| | |
|---|--|
|  | Tightened anchorage frame |
|  | Loosened anchorage frame |
|  | Hoisting |
|  | Trolleying |
|  | Slewing |
|  | Travelling |
|  | Required power |
|  | Power Control function: Hoisting speeds adapted to the available power |
|  | Consult us |

Note: 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.

Constant improvement and engineering progress make it necessary that we reserve the right to make specification, equipment and price changes without notice. Illustrations shown may include optional equipment and accessories, and may not include all standard equipment.



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