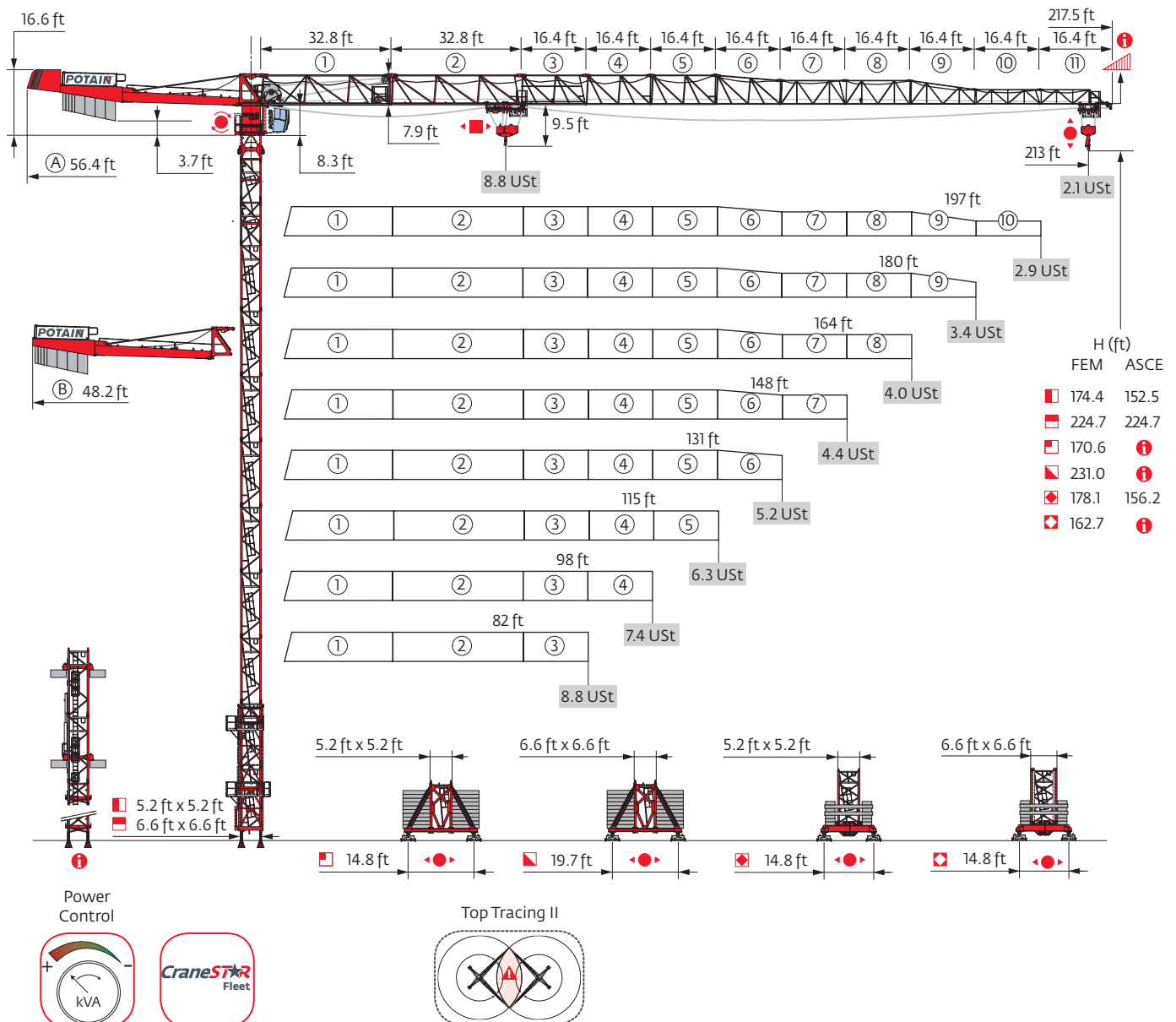


# MDT 218 A

## Data Sheet

FEM 1.001-A3  
ASCE 7-10

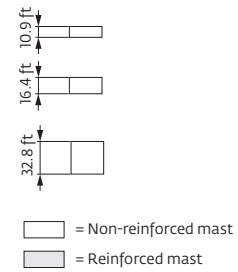
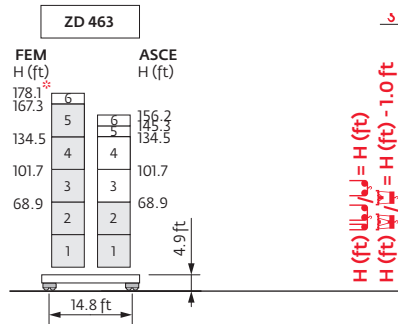
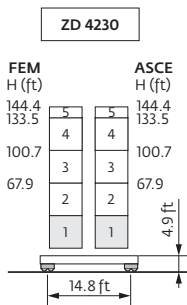
### MDT 218 AJ8



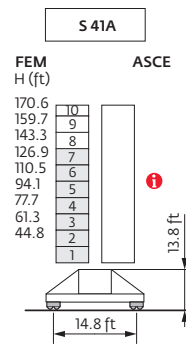
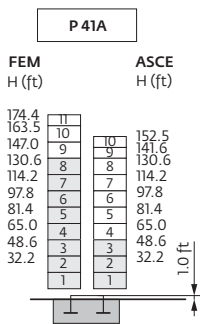
Values have been rounded

# Mast

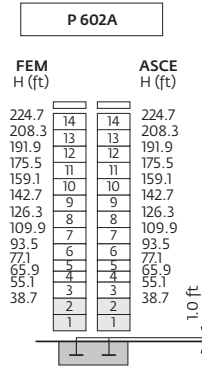
5.2 ft City  
82 ft → 213 ft



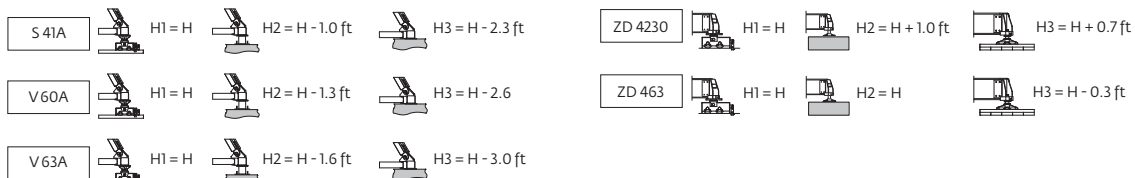
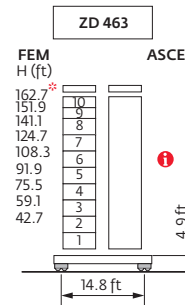
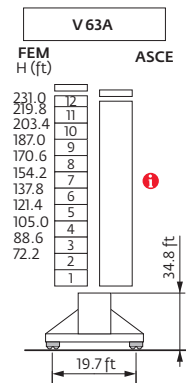
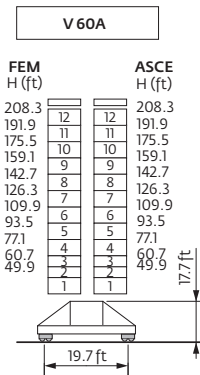
5.2 ft  
82 ft → 213 ft



6.6 ft  
82 ft → 213 ft



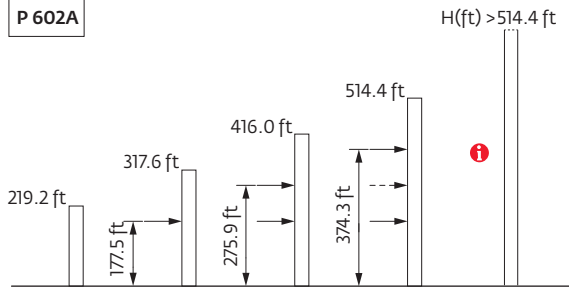
6.6 ft  
82 ft → 213 ft



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 (Consult us for ASCE 7-10 values)

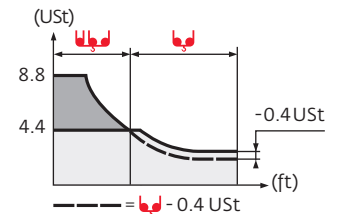
P 602A



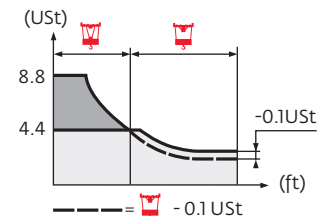
## Load charts



|        |    |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------|----|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 213 ft | 10 | ▶ | 61  | 66  | 72  | 82  | 89  | 98  | 105 | 109 | 117 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
| ▲▲▲    |    |   | 8.8 | 8.0 | 7.3 | 6.2 | 5.6 | 5.0 | 4.6 | 4.4 | 4.4 | 4.3 | 3.9 | 3.6 | 3.4 | 3.2 | 3.0 | 2.9 | 2.6 | 2.5 | 2.4 | 2.3 | 2.1 | USt |
| 197 ft | 10 | ▶ | 71  | 72  | 82  | 89  | 98  | 105 | 115 | 121 | 126 | 136 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | ft  |     |     |     |
| ▲▲▲    |    |   | 8.8 | 8.6 | 7.4 | 6.7 | 6.0 | 5.5 | 5.0 | 4.6 | 4.4 | 4.4 | 4.4 | 4.1 | 3.9 | 3.5 | 3.4 | 3.2 | 3.0 | 2.9 | USt |     |     |     |
| 180 ft | 10 | ▶ | 75  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 134 | 145 | 148 | 154 | 164 | 171 | 180 | ft  |     |     |     |     |     |     |
| ▲▲▲    |    |   | 8.8 | 7.9 | 7.3 | 6.4 | 6.0 | 5.3 | 5.0 | 4.5 | 4.4 | 4.4 | 4.3 | 4.1 | 3.9 | 3.6 | 3.4 | USt |     |     |     |     |     |     |
| 164 ft | 10 | ▶ | 78  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 138 | 140 | 152 | 154 | 164 | ft  |     |     |     |     |     |     |     |     |
| ▲▲▲    |    |   | 8.8 | 8.4 | 7.6 | 6.7 | 6.3 | 5.6 | 5.3 | 4.7 | 4.5 | 4.4 | 4.4 | 4.3 | 4.0 | USt |     |     |     |     |     |     |     |     |
| 148 ft | 10 | ▶ | 81  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | ft  |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |    |   | 8.8 | 8.6 | 7.9 | 7.1 | 6.5 | 5.8 | 5.5 | 5.0 | 4.6 | 4.3 | USt |     |     |     |     |     |     |     |     |     |     |     |
|        |    |   |     |     |     |     |     |     |     |     |     |     | 4.4 | USt |     |     |     |     |     |     |     |     |     |     |
| 131 ft | 10 | ▶ | 83  | 89  | 98  | 105 | 115 | 121 | 131 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |    |   | 8.8 | 8.3 | 7.3 | 6.7 | 6.1 | 5.7 | 5.2 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 115 ft | 10 | ▶ | 84  | 89  | 98  | 105 | 115 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |    |   | 8.8 | 8.4 | 7.4 | 6.8 | 6.2 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 98 ft  | 10 | ▶ | 84  | 89  | 98  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |    |   | 8.8 | 8.3 | 7.3 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 82 ft  | 10 | ▶ | 82  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |    |   | 8.8 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



|        |   |   |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------|---|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 213 ft | 8 | ▶ | 61  | 66  | 72  | 82  | 89  | 98  | 105 | 110 | 112 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
| ▲▲▲    |   |   | 8.8 | 8.2 | 7.3 | 6.3 | 5.7 | 5.1 | 4.6 | 4.4 | 4.4 | 4.3 | 4.0 | 3.6 | 3.4 | 3.1 | 3.0 | 2.8 | 2.6 | 2.4 | 2.3 | 2.1 | 2.0 | 1.9 | USt |
| 197 ft | 8 | ▶ | 71  | 72  | 82  | 89  | 98  | 105 | 115 | 121 | 128 | 131 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | ft  |     |     |     |
| ▲▲▲    |   |   | 8.8 | 8.6 | 7.5 | 6.8 | 6.1 | 5.6 | 5.1 | 4.7 | 4.4 | 4.4 | 4.4 | 4.2 | 3.7 | 3.6 | 3.3 | 3.2 | 3.0 | 2.8 | 2.6 | USt |     |     |     |
| 180 ft | 8 | ▶ | 75  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 136 | 139 | 148 | 154 | 164 | 171 | 180 | ft  |     |     |     |     |     |     |     |
| ▲▲▲    |   |   | 8.8 | 7.9 | 7.3 | 6.5 | 6.0 | 5.4 | 5.1 | 4.6 | 4.4 | 4.4 | 4.1 | 3.9 | 3.6 | 3.4 | 3.2 | USt |     |     |     |     |     |     |     |
| 164 ft | 8 | ▶ | 79  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 138 | 142 | 145 | 148 | 154 | 164 | ft  |     |     |     |     |     |     |     |     |
| ▲▲▲    |   |   | 8.8 | 8.4 | 7.7 | 6.8 | 6.3 | 5.7 | 5.3 | 4.9 | 4.6 | 4.4 | 4.4 | 4.3 | 4.1 | 3.8 | USt |     |     |     |     |     |     |     |     |
| 148 ft | 8 | ▶ | 81  | 82  | 89  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |   |   | 8.8 | 8.7 | 7.9 | 7.1 | 6.5 | 5.8 | 5.5 | 5.1 | 4.7 | 4.4 | USt |     |     |     |     |     |     |     |     |     |     |     |     |
|        |   |   |     |     |     |     |     |     |     |     |     |     | 4.4 | USt |     |     |     |     |     |     |     |     |     |     |     |
| 131 ft | 8 | ▶ | 84  | 89  | 98  | 105 | 115 | 121 | 131 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |   |   | 8.8 | 8.3 | 7.3 | 6.8 | 6.2 | 5.7 | 5.2 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 115 ft | 8 | ▶ | 85  | 89  | 98  | 105 | 115 | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |   |   | 8.8 | 8.5 | 7.5 | 6.9 | 6.3 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 98 ft  | 8 | ▶ | 85  | 89  | 98  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |   |   | 8.8 | 8.4 | 7.4 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 82 ft  | 8 | ▶ | 82  | ft  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲    |   |   | 8.8 | USt |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



## Base ballast

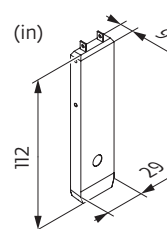
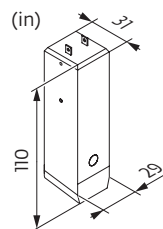
|                                                                                                     |                                                                                                                                                                             |                                                                                                                                                                                              |                                                                                   |                                                                                   |       |                                                                                   |       |       |       |       |       |      |      |
|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------|-------|-------|-------|-------|-------|------|------|
| <br>5.2 ft<br>City | ZD 4230   | H (ft)<br> (Ust)<br> (Ust) | 144.4                                                                             | 133.5                                                                             | 100.7 | 67.9                                                                              |       |       |       |       |       |      |      |
|                                                                                                     | FEM                                                                                                                                                                         |  (Ust)                                                                                                      | 93.7                                                                              | 93.7                                                                              | 93.7  | 93.7                                                                              |       |       |       |       |       |      |      |
|                                                                                                     | ASCE                                                                                                                                                                        |  (Ust)                                                                                                      |  |                                                                                   |       |                                                                                   |       |       |       |       |       |      |      |
|                                                                                                     | ZD 463    | H (ft)<br> (Ust)<br> (Ust) | 178.1                                                                             | 167.3                                                                             | 156.2 | 134.5                                                                             | 101.7 | 68.9  |       |       |       |      |      |
|                                                                                                     | FEM                                                                                                                                                                         |  (Ust)                                                                                                      | 110.2*                                                                            | 104.7                                                                             | -     | 93.7                                                                              | 93.7  | 93.7  |       |       |       |      |      |
|                                                                                                     | ASCE                                                                                                                                                                        |  (Ust)                                                                                                      | -                                                                                 | -                                                                                 | 93.7  |  |       |       |       |       |       |      |      |
| <br>5.2 ft         | S 41A     | H (ft)<br> (Ust)<br> (Ust) | 170.6                                                                             | 159.7                                                                             | 143.3 | 126.9                                                                             | 110.5 | 94.1  | 77.7  | 61.3  | 44.8  |      |      |
|                                                                                                     | FEM                                                                                                                                                                         |  (Ust)                                                                                                      |  |                                                                                   |       |                                                                                   |       |       |       |       |       |      |      |
|                                                                                                     | ASCE                                                                                                                                                                        |  (Ust)                                                                                                      |  |                                                                                   |       |                                                                                   |       |       |       |       |       |      |      |
| <br>6.6 ft         | V 60A     | H (ft)<br> (Ust)<br> (Ust) | 208.3                                                                             | 191.9                                                                             | 175.5 | 159.1                                                                             | 142.7 | 126.3 | 109.9 | 93.5  | 77.1  | 60.7 | 49.9 |
|                                                                                                     | FEM                                                                                                                                                                         |  (Ust)                                                                                                      | 145.5                                                                             | 119.0                                                                             | 92.6  | 66.1                                                                              | 39.7  | 39.7  | 39.7  | 39.7  | 39.7  | 39.7 | 39.7 |
|                                                                                                     | ASCE                                                                                                                                                                        |  (Ust)                                                                                                      | 145.5                                                                             |  |       |                                                                                   |       |       |       |       |       |      |      |
|                                                                                                     | V 63A     | H (ft)<br> (Ust)<br> (Ust) | 231.0                                                                             | 219.8                                                                             | 203.4 | 187.0                                                                             | 170.6 | 154.2 | 137.8 | 121.4 | 105.0 | 88.6 | 72.2 |
|                                                                                                     | FEM                                                                                                                                                                         |  (Ust)                                                                                                      | 198.4                                                                             | 172.0                                                                             | 145.5 | 105.8                                                                             | 79.4  | 66.1  | 39.7  | 39.7  | 39.7  | 39.7 | 39.7 |
|                                                                                                     | ASCE                                                                                                                                                                        |  (Ust)                                                                                                      |  |                                                                                   |       |                                                                                   |       |       |       |       |       |      |      |
|                                                                                                     | ZD 463    | H (ft)<br> (Ust)<br> (Ust) | 162.7                                                                             | 151.9                                                                             | 141.1 | 124.7                                                                             | 108.3 | 91.9  | 75.5  | 59.1  | 42.7  |      |      |
|                                                                                                     | FEM                                                                                                                                                                         |  (Ust)                                                                                                      | 121.3*                                                                            | 93.7                                                                              | 77.2  | 77.2                                                                              | 77.2  | 77.2  | 77.2  | 77.2  | 77.2  |      |      |
|                                                                                                     | ASCE                                                                                                                                                                        |  (Ust)                                                                                                      |  |                                                                                   |       |                                                                                   |       |       |       |       |       |      |      |

## Counter-jib ballast

|                                                                                     |  (lb) - 33 LVF<br>(+/- 5%) |                                                                                     |                                                                                     |  |         |                                                                                          |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------|
|  |                            |  |  | 7937 lb                                                                             | 2425 lb |  (lb) |
| 213 ft                                                                              | 23,887                                                                                                        | 23,435                                                                              | 24,074                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 197 ft                                                                              | 23,446                                                                                                        | 22,994                                                                              | 23,634                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 180 ft                                                                              | 22,741                                                                                                        | 22,355                                                                              | 22,950                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 164 ft                                                                              | 22,079                                                                                                        | 21,693                                                                              | 22,289                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 148 ft                                                                              | 21,319                                                                                                        | 20,922                                                                              | 21,517                                                                              | 4                                                                                   | 3       | 39,022                                                                                   |
| 131 ft                                                                              | 20,459                                                                                                        | 20,051                                                                              | 20,657                                                                              | 4                                                                                   | 2       | 36,597                                                                                   |
| 115 ft                                                                              | 19,390                                                                                                        | 19,004                                                                              | 19,599                                                                              | 4                                                                                   | 1       | 34,172                                                                                   |
| 98 ft                                                                               | 18,287                                                                                                        | 17,902                                                                              | 18,486                                                                              | 4                                                                                   | 0       | 31,747                                                                                   |
| 82 ft                                                                               | 17,174                                                                                                        | 16,788                                                                              | 17,372                                                                              | 3                                                                                   | 2       | 28,660                                                                                   |

CAU - 7937 Ib

CAV - 2425 Ib



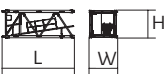
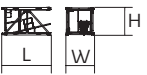
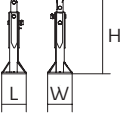
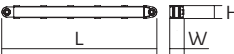
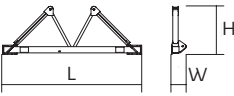
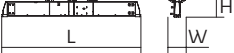
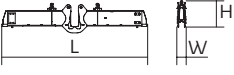
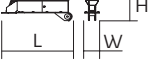
# Component weights

Crane upper : 213 ft - 33 LVF



|                         |  |                               | L (ft)                                       | W (ft)                                 | H (ft)                                 | lb<br>(+/- 5%)                            |
|-------------------------|--|-------------------------------|----------------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------|
| Counter-jib             |  | Ⓐ<br>Ⓑ                        | 36.7<br>36.7                                 | 5.0<br>5.0                             | 8.3<br>8.3                             | 13,095<br>12,588                          |
| Pivot + cab             |  | UltraView<br>5.2 ft<br>6.6 ft | 15.4<br>15.6                                 | 7.5<br>7.5                             | 8.2<br>8.2                             | 12,511<br>14,584                          |
| Jib section             |  | ①<br>33 LVF<br>7 DVF          | 35.8                                         | 9.6                                    | 8.6                                    | 9766                                      |
| Jib section             |  | ②                             | 33.7                                         | 3.4                                    | 7.9                                    | 4156                                      |
| Jib section             |  | ③<br>④<br>⑤<br>⑦<br>⑧<br>⑩    | 17.2<br>17.0<br>17.0<br>17.0<br>16.9<br>17.0 | 3.4<br>3.4<br>3.4<br>3.4<br>3.4<br>3.4 | 7.7<br>7.6<br>7.6<br>6.2<br>6.2<br>3.8 | 1653<br>1334<br>1334<br>860<br>783<br>529 |
| Jib section             |  | ⑥<br>⑨                        | 17.0<br>17.0                                 | 3.4<br>3.4                             | 7.6<br>6.2                             | 1058<br>661                               |
| Jib section             |  | ⑪                             | 16.7                                         | 3.4                                    | 3.8                                    | 441                                       |
| Hoisting winch (+ rope) |  | 33 LVF<br>50 LVF<br>50 LVF GH | 4.6<br>4.9<br>5.2                            | 2.7<br>3.1<br>4.4                      | 2.5<br>3.0<br>4.1                      | 1995<br>2646<br>4453                      |
| Trolley                 |  | 8.8 USt                       | 5.9                                          | 4.4                                    | 3.1                                    | 364                                       |
| Hook block              |  | 8.8 USt                       | 3.3                                          | 1.4                                    | 6.6                                    | 441                                       |
| Trolley                 |  | 8.8 USt                       | 5.4                                          | 4.3                                    | 3.0                                    | 364                                       |
| Trolley                 |  | 8.8 USt<br>4.4 USt            | 5.2<br>5.2                                   | 4.3<br>4.2                             | 3.0<br>3.0                             | 353<br>507                                |
| Hook block              |  | 8.8 USt<br>4.4 USt            | 5.4<br>3.6                                   | 0.8<br>0.5                             | 5.6<br>4.9                             | 683<br>694                                |

# Component weights

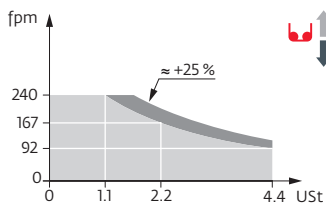
|                                        |                                                                                     |                                                                                      | L (ft)                                                          | W (ft)                                                      | H (ft)                                                      | lb<br>(+/- 5%)                                                  |
|----------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|
| Climbing cage                          |    | <div> <div>5.2 ft</div> <div>6.6 ft</div> </div>                                     | <div>36.7</div> <div>37.7</div>                                 | <div>12.9</div> <div>13.8</div>                             | <div>11.7</div> <div>14.3</div>                             | <div>12,930</div> <div>18,155</div>                             |
| K40/K40<br>K60/K60                     |    | <div> <div>5.2 ft</div> <div>6.6 ft</div> </div>                                     | <div>7.3</div> <div>6.6</div>                                   | <div>6.9</div> <div>8.1</div>                               | <div>6.8</div> <div>8.2</div>                               | <div>3208</div> <div>4365</div>                                 |
| K 437B<br>KM 437E<br>KM 439E<br>K 639B |    | <div> <div>5.2 ft</div> <div>5.2 ft</div> <div>5.2 ft</div> <div>6.6 ft</div> </div> | <div>33.5</div> <div>33.5</div> <div>33.5</div> <div>33.6</div> | <div>5.5</div> <div>5.5</div> <div>6.9</div> <div>6.8</div> | <div>5.3</div> <div>5.3</div> <div>6.8</div> <div>6.7</div> | <div>4079</div> <div>4916</div> <div>7165</div> <div>6184</div> |
| K 437A<br>K 439A<br>KR 649A<br>K 639A  |    | <div> <div>5.2 ft</div> <div>5.2 ft</div> <div>6.6 ft</div> <div>6.6 ft</div> </div> | <div>17.1</div> <div>17.1</div> <div>17.2</div> <div>17.2</div> | <div>5.5</div> <div>5.5</div> <div>6.9</div> <div>6.8</div> | <div>5.3</div> <div>5.3</div> <div>6.8</div> <div>6.7</div> | <div>4079</div> <div>4916</div> <div>7165</div> <div>6184</div> |
| K 437C<br>K 639C                       |    | <div> <div>5.2 ft</div> <div>6.6 ft</div> </div>                                     | <div>11.3</div> <div>11.7</div>                                 | <div>5.5</div> <div>6.8</div>                               | <div>5.3</div> <div>6.7</div>                               | <div>2998</div> <div>4376</div>                                 |
| Fixing angles                          |   | P 41A<br>P 602A                                                                      | <div>1.2</div> <div>2.1</div>                                   | <div>1.2</div> <div>2.1</div>                               | <div>3.7</div> <div>4.2</div>                               | <div>298</div> <div>650</div>                                   |
| Chassis mast                           |  | S 41A<br>V 60A<br>V 63A                                                              | <div>11.9</div> <div>16.4</div> <div>32.9</div>                 | <div>6.4</div> <div>7.9</div> <div>7.9</div>                | <div>6.8</div> <div>7.9</div> <div>7.9</div>                | <div>6537</div> <div>9678</div> <div>16,502</div>               |
| Struts                                 |  | S 41A<br>V 60A<br>V 63A                                                              | <div>10.4</div> <div>14.8</div> <div>14.8</div>                 | <div>0.9</div> <div>1.0</div> <div>1.1</div>                | <div>0.8</div> <div>1.0</div> <div>1.1</div>                | <div>496</div> <div>926</div> <div>1135</div>                   |
| Half-bearer                            |  | S 41A<br>V 60A<br>V 63A                                                              | <div>16.7</div> <div>22.0</div> <div>22.0</div>                 | <div>2.0</div> <div>2.3</div> <div>2.3</div>                | <div>5.8</div> <div>7.6</div> <div>7.6</div>                | <div>2524</div> <div>3527</div> <div>4079</div>                 |
| Cross girder                           |  | ZD 4230                                                                              | 21.8                                                            | 2.7                                                         | 3.4                                                         | 4034                                                            |
| Cross girder                           |  | ZD 4230                                                                              | 21.8                                                            | 1.5                                                         | 4.4                                                         | 4707                                                            |
| Cross girder                           |  | ZD 463                                                                               | 25.1                                                            | 3.8                                                         | 4.5                                                         | 7904                                                            |
| 1/2 Cross girder                       |  | ZD 463                                                                               | 11.2                                                            | 2.3                                                         | 4.4                                                         | 3649                                                            |
| 1/2 Cross girder                       |  | ZD 463                                                                               | 11.2                                                            | 2.4                                                         | 4.4                                                         | 3682                                                            |

# Mechanisms

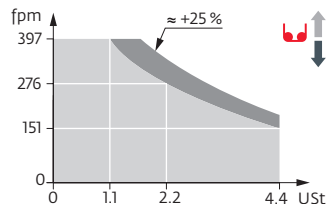
| 480 V - 60 Hz                                                                     |                                        |     |  |     |     |     |  |     |     |     | hp      | kW      |  |  |
|-----------------------------------------------------------------------------------|----------------------------------------|-----|-----------------------------------------------------------------------------------|-----|-----|-----|-----------------------------------------------------------------------------------|-----|-----|-----|---------|---------|-------------------------------------------------------------------------------------|--|
|  | 33 LVF 20 Optima                       | fpm | 92                                                                                | 118 | 167 | 240 | 46                                                                                | 59  | 84  | 120 | 33      | 22      | 951 ft                                                                              |  |
|                                                                                   |                                        | USt | 4.4                                                                               | 3.3 | 2.2 | 1.1 | 8.8                                                                               | 6.6 | 4.4 | 2.2 |         |         |                                                                                     |  |
|                                                                                   | 50 LVF 20 Optima                       | fpm | 151                                                                               | 194 | 276 | 397 | 75                                                                                | 97  | 138 | 198 | 50      | 37      | 1191 ft                                                                             |  |
|                                                                                   |                                        | USt | 4.4                                                                               | 3.3 | 2.2 | 1.1 | 8.8                                                                               | 6.6 | 4.4 | 2.2 |         |         |                                                                                     |  |
|                                                                                   | 50 LVF 20 GH Optima                    | fpm | 141                                                                               | 180 | 259 | 371 | 71                                                                                | 90  | 130 | 185 | 50      | 37      | 2080 ft                                                                             |  |
|                                                                                   |                                        | USt | 4.4                                                                               | 3.3 | 2.2 | 1.1 | 8.8                                                                               | 6.6 | 4.4 | 2.2 |         |         |                                                                                     |  |
|  | 7 DVF 4                                | fpm | 0 → 259                                                                           |     |     |     |                                                                                   |     |     |     | 6.5     | 4.8     |                                                                                     |  |
|  | RVF 162 Optima+                        | rpm | 0 → 0.8                                                                           |     |     |     |                                                                                   |     |     |     | 2 x 7.5 | 2 x 5.5 |                                                                                     |  |
|  | S 41A<br>RT 443<br>A1 - 2V<br>R ≥ 10 m | fpm | 59 - 118                                                                          |     |     |     |                                                                                   |     |     |     | 4 x 6   | 4 x 4.4 |                                                                                     |  |
|  | V 60A<br>RT 544<br>A1 - 2V<br>R ≥ 13 m | fpm | 52 - 105                                                                          |     |     |     |                                                                                   |     |     |     | 4 x 8.4 | 4 x 6.2 |                                                                                     |  |
|  | V 63A<br>RT 664<br>A2B - 2V            | fpm | 62 - 125                                                                          |     |     |     |                                                                                   |     |     |     | 6 x 8.4 | 6 x 6.2 |                                                                                     |  |
|  |                                        |     |                                                                                   |     |     |     |                                                                                   |     |     |     |         |         |                                                                                     |  |
|  | ZD 4230<br>RT 324                      | fpm | 49 - 98                                                                           |     |     |     |                                                                                   |     |     |     | 2 x 8.4 | 2 x 6.2 |                                                                                     |  |
|  | ZD 463<br>RT 443<br>A1 - 2V            | fpm | 59 - 118                                                                          |     |     |     |                                                                                   |     |     |     | 4 x 6   | 4 x 4.4 |                                                                                     |  |

|  IEC 60204-32 |  kVA                                                  |
|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| 480 V (+6% -10%) 60 Hz                                                                           | 33 LVF : 44 → 31 kVA <br>50 LVF / 50 LVF GH : 58 kVA |

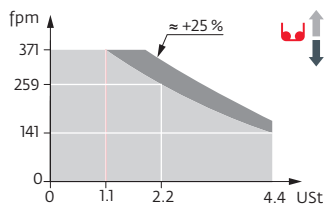
33 LVF 20 Optima



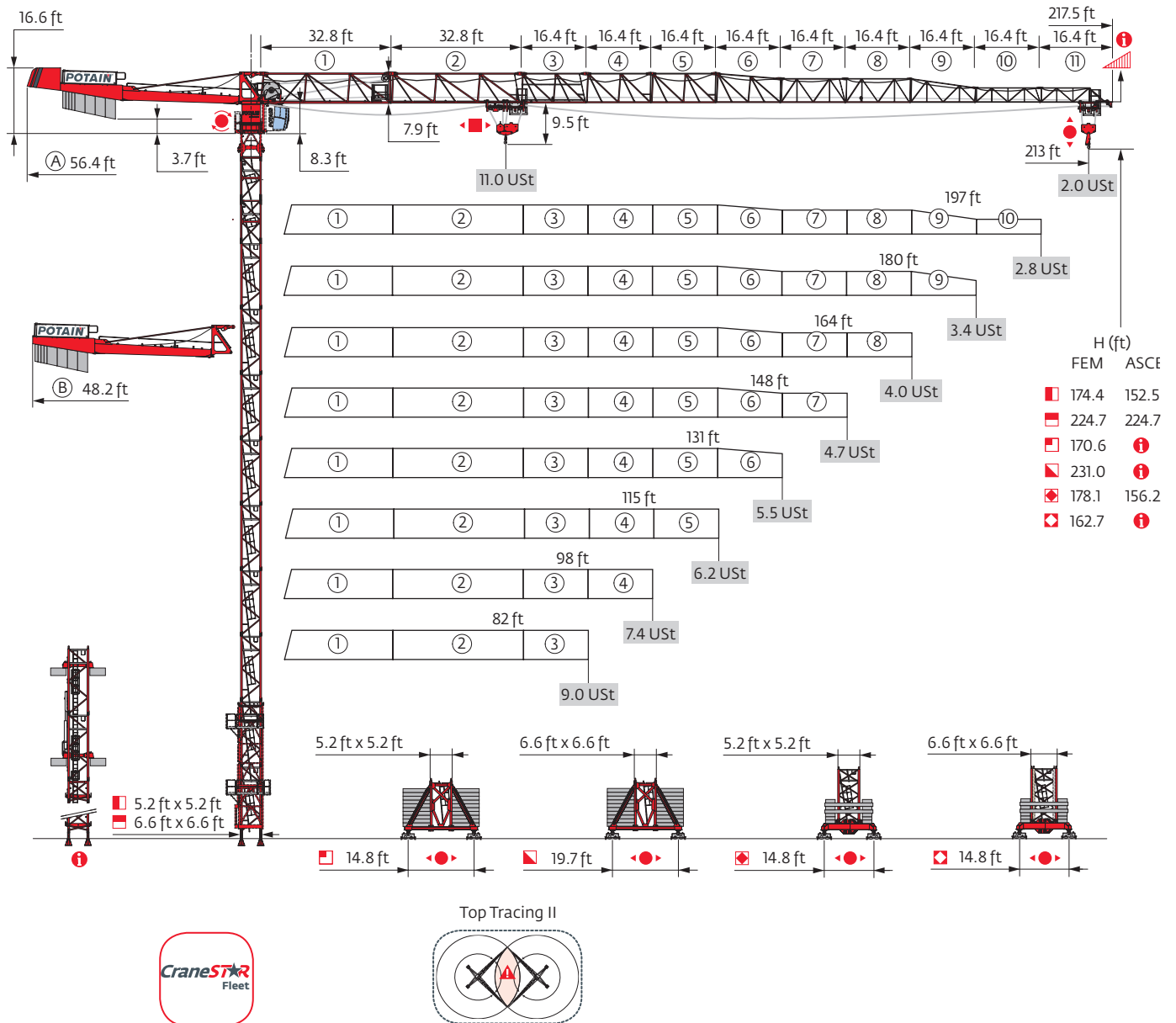
50 LVF 20 Optima



50 LVF 20 GH Optima



## MDT 218 A J10



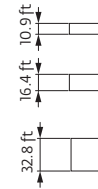
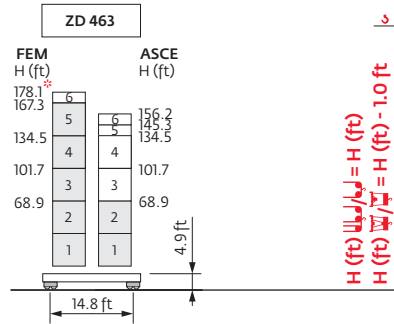
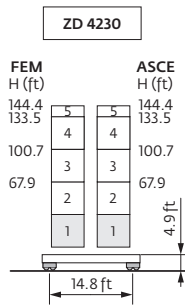
Values have been rounded



# Mast

5.2 ft City

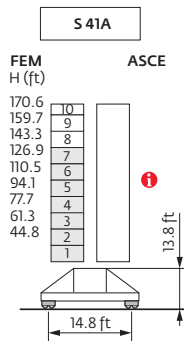
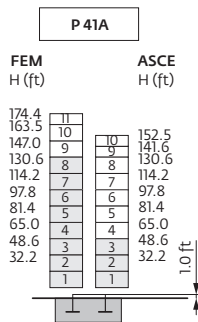
82 ft → 213 ft



□ = Non-reinforced mast  
■ = Reinforced mast

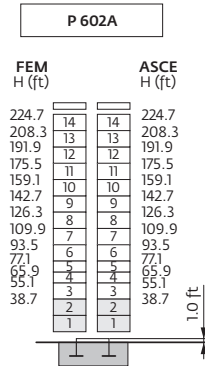
5.2 ft

82 ft → 213 ft



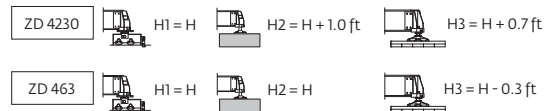
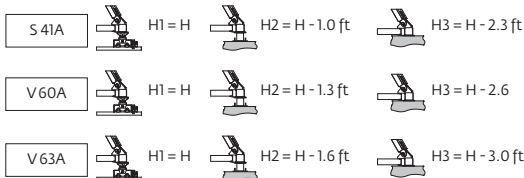
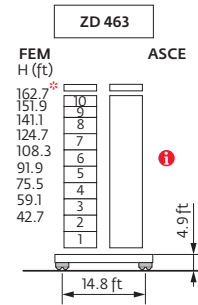
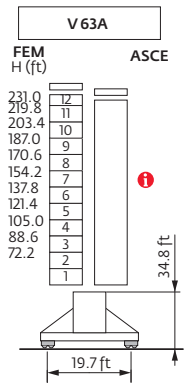
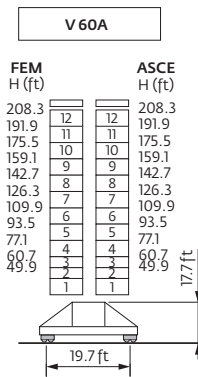
6.6 ft

82 ft → 213 ft



6.6 ft

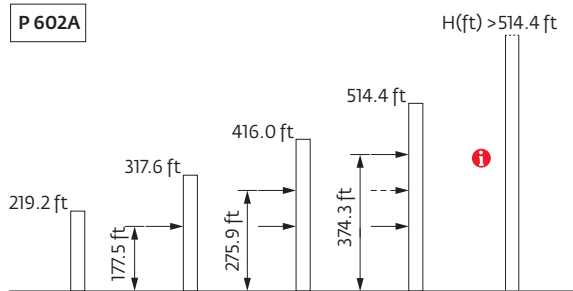
82 ft → 213 ft



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 (Consult us for ASCE 7-10 values)

P 602A



## Load chart



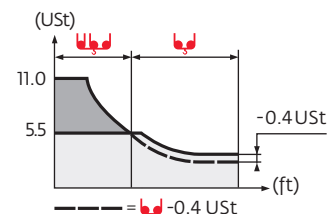
|        |    |   |  |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------|----|---|--|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 213 ft | 10 | ▶ |  | 49   | 56   | 66   | 72   | 82  | 88  | 94  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
| ▲▲▲▲   |    |   |  | 11.0 | 9.5  | 7.8  | 6.9  | 6.0 | 5.5 | 5.5 | 5.3 | 4.9 | 4.4 | 4.1 | 3.7 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 | 2.4 | 2.3 | 2.1 | 2.0 | USt |
| 197 ft | 10 | ▶ |  |      | 57   | 66   | 72   | 82  | 89  | 98  | 102 | 110 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 |     | ft  |     |
| ▲▲▲▲   |    |   |  |      | 11.0 | 9.4  | 8.4  | 7.2 | 6.5 | 5.7 | 5.5 | 5.5 | 5.3 | 5.0 | 4.5 | 4.2 | 3.9 | 3.7 | 3.4 | 3.3 | 3.1 | 2.9 | 2.8 |     | USt |     |
| 180 ft | 10 | ▶ |  |      | 62   | 66   | 72   | 82  | 89  | 98  | 105 | 112 | 119 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 |     |     | ft  |     |     |
| ▲▲▲▲   |    |   |  |      | 11.0 | 10.3 | 9.3  | 7.9 | 7.3 | 6.4 | 6.0 | 5.5 | 5.5 | 5.4 | 5.0 | 4.6 | 4.3 | 4.1 | 3.9 | 3.6 | 3.4 |     |     | USt |     |     |
| 164 ft | 10 | ▶ |  |      | 64   | 66   | 72   | 82  | 89  | 98  | 105 | 115 | 117 | 125 | 131 | 138 | 148 | 154 | 164 |     |     |     |     | ft  |     |     |
| ▲▲▲▲   |    |   |  |      | 11.0 | 10.8 | 9.7  | 8.4 | 7.6 | 6.7 | 6.3 | 5.6 | 5.5 | 5.5 | 5.2 | 5.0 | 4.5 | 4.3 | 4.0 |     |     |     |     | USt |     |     |
| 148 ft | 10 | ▶ |  |      |      | 66   | 72   | 82  | 89  | 98  | 105 | 115 | 120 | 128 | 131 | 138 | 148 |     |     |     |     |     |     |     | ft  |     |
| ▲▲▲▲   |    |   |  |      |      | 11.0 | 9.9  | 8.6 | 7.8 | 6.9 | 6.5 | 5.8 | 5.5 | 5.5 | 5.4 | 5.1 | 4.7 |     |     |     |     |     |     |     | USt |     |
| 131 ft | 10 | ▶ |  |      |      | 68   | 72   | 82  | 89  | 98  | 105 | 115 | 121 | 123 | 131 |     |     |     |     |     |     |     |     |     | ft  |     |
| ▲▲▲▲   |    |   |  |      |      | 11.0 | 10.3 | 8.8 | 8.2 | 7.2 | 6.6 | 6.0 | 5.6 | 5.5 | 5.5 |     |     |     |     |     |     |     |     |     | USt |     |
| 115 ft | 10 | ▶ |  |      |      | 69   | 72   | 82  | 89  | 98  | 105 | 115 |     |     |     |     |     |     |     |     |     |     |     |     | ft  |     |
| ▲▲▲▲   |    |   |  |      |      | 11.0 | 10.5 | 9.0 | 8.3 | 7.4 | 6.8 | 6.1 |     |     |     |     |     |     |     |     |     |     |     |     | USt |     |
| 98 ft  | 10 | ▶ |  |      |      | 69   | 72   | 82  | 89  | 98  |     |     |     |     |     |     |     |     |     |     |     |     |     |     | ft  |     |
| ▲▲▲▲   |    |   |  |      |      | 11.0 | 10.4 | 9.0 | 8.3 | 7.3 |     |     |     |     |     |     |     |     |     |     |     |     |     |     | USt |     |
| 82 ft  | 10 | ▶ |  |      |      | 68   | 72   | 82  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | ft  |     |
| ▲▲▲▲   |    |   |  |      |      | 11.0 | 10.4 | 8.9 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | USt |     |

(USt)

11.0

5.5

--- = b d



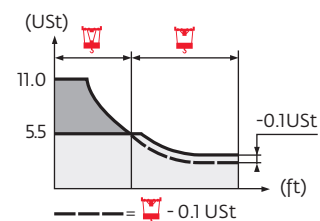
|        |   |   |      |      |      |      |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
|--------|---|---|------|------|------|------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 213 ft | 8 | ▶ | 50   | 56   | 66   | 72   | 82  | 89  | 90  | 92  | 98  | 105 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 | 203 | 213 | ft  |
| ▲▲▲▲   |   |   | 11.0 | 9.7  | 8.0  | 7.2  | 6.2 | 5.6 | 5.5 | 5.5 | 5.1 | 4.6 | 4.2 | 3.9 | 3.5 | 3.3 | 3.0 | 2.9 | 2.6 | 2.5 | 2.3 | 2.2 | 2.0 | 1.9 | 1.8 | USt |
| 197 ft | 8 | ▶ |      | 58   | 66   | 72   | 82  | 89  | 98  | 104 | 106 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 | 187 | 197 |     |     | ft  |     |
| ▲▲▲▲   |   |   |      | 11.0 | 9.5  | 8.5  | 7.4 | 6.7 | 6.0 | 5.5 | 5.5 | 5.1 | 4.7 | 4.3 | 4.1 | 3.7 | 3.5 | 3.3 | 3.1 | 2.9 | 2.7 | 2.5 |     |     | USt |     |
| 180 ft | 8 | ▶ |      | 62   | 66   | 72   | 82  | 89  | 98  | 105 | 113 | 115 | 121 | 131 | 138 | 148 | 154 | 164 | 171 | 180 |     |     |     |     | ft  |     |
| ▲▲▲▲   |   |   |      | 11.0 | 10.4 | 9.3  | 8.0 | 7.3 | 6.5 | 6.0 | 5.5 | 5.5 | 5.2 | 4.7 | 4.4 | 4.1 | 3.9 | 3.6 | 3.4 | 3.2 |     |     |     |     | USt |     |
| 164 ft | 8 | ▶ |      | 65   | 66   | 72   | 82  | 89  | 98  | 105 | 115 | 118 | 120 | 121 | 131 | 138 | 148 | 154 | 164 |     |     |     |     |     | ft  |     |
| ▲▲▲▲   |   |   |      | 11.0 | 10.8 | 9.7  | 8.4 | 7.7 | 6.8 | 6.3 | 5.7 | 5.5 | 5.5 | 5.4 | 5.0 | 4.7 | 4.3 | 4.1 | 3.8 |     |     |     |     |     | USt |     |
| 148 ft | 8 | ▶ |      |      | 66   | 72   | 82  | 89  | 98  | 105 | 115 |     | 121 | 124 | 131 | 138 | 148 |     |     |     |     |     |     |     |     |     |
| ▲▲▲▲   |   |   |      |      | 11.0 | 10.0 | 8.7 | 7.9 | 7.1 | 6.5 | 5.8 | 5.5 | 5.5 | 5.2 | 4.9 | 4.5 |     |     |     |     |     |     |     |     | USt |     |
| 131 ft | 8 | ▶ |      |      | 69   | 72   | 82  | 89  | 98  | 105 | 115 |     | 121 | 125 | 128 | 131 |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲▲   |   |   |      |      | 11.0 | 10.4 | 9.0 | 8.3 | 7.3 | 6.8 | 6.1 | 5.7 | 5.5 | 5.5 | 5.3 |     |     |     |     |     |     |     |     |     | USt |     |
| 115 ft | 8 | ▶ |      |      | 70   | 72   | 82  | 89  | 98  | 105 | 115 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲▲   |   |   |      |      | 11.0 | 10.6 | 9.1 | 8.4 | 7.5 | 6.9 | 6.2 |     |     |     |     |     |     |     |     |     |     |     |     |     | USt |     |
| 98 ft  | 8 | ▶ |      |      | 69   | 72   | 82  | 89  | 98  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲▲   |   |   |      |      | 11.0 | 10.5 | 9.1 | 8.4 | 7.4 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | USt |     |
| 82 ft  | 8 | ▶ |      |      | 69   | 72   | 82  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| ▲▲▲▲   |   |   |      |      | 11.0 | 10.5 | 9.0 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     | USt |     |

(USt)

11.0

5.5

— = —



## Base ballast

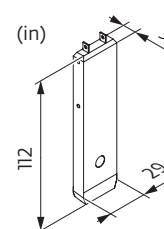
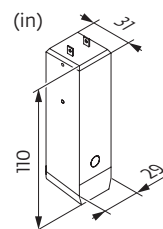
|                |         |        |        |       |       |       |       |       |       |       |       |      |      |  |
|----------------|---------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|--|
| 5.2 ft<br>City | ZD 4230 | H (ft) | 144.4  | 133.5 | 100.7 | 67.9  |       |       |       |       |       |      |      |  |
|                | FEM     | (Ust)  | 93.7   | 93.7  | 93.7  | 93.7  |       |       |       |       |       |      |      |  |
|                | ASCE    | (Ust)  | i      |       |       |       |       |       |       |       |       |      |      |  |
|                | ZD 463  | H (ft) | 178.1  | 167.3 | 156.2 | 134.5 | 101.7 | 68.9  |       |       |       |      |      |  |
|                | FEM     | (Ust)  | 110.2* | 104.7 | -     | 93.7  | 93.7  | 93.7  |       |       |       |      |      |  |
|                | ASCE    | (Ust)  | -      | -     | 93.7  | i     |       |       |       |       |       |      |      |  |
| 5.2 ft         | S 41A   | H (ft) | 170.6  | 159.7 | 143.3 | 126.9 | 110.5 | 94.1  | 77.7  | 61.3  | 44.8  |      |      |  |
|                | FEM     | (Ust)  | i      |       |       |       |       |       |       |       |       |      |      |  |
|                | ASCE    | (Ust)  | i      |       |       |       |       |       |       |       |       |      |      |  |
| 6.6 ft         | V 60A   | H (ft) | 208.3  | 191.9 | 175.5 | 159.1 | 142.7 | 126.3 | 109.9 | 93.5  | 77.1  | 60.7 | 49.9 |  |
|                | FEM     | (Ust)  | 145.5  | 119.0 | 92.6  | 66.1  | 39.7  | 39.7  | 39.7  | 39.7  | 39.7  | 39.7 | 39.7 |  |
|                | ASCE    | (Ust)  | 145.5  | i     |       |       |       |       |       |       |       |      |      |  |
|                | V 63A   | H (ft) | 231.0  | 219.8 | 203.4 | 187.0 | 170.6 | 154.2 | 137.8 | 121.4 | 105.0 | 88.6 | 72.2 |  |
|                | FEM     | (Ust)  | 198.4  | 172.0 | 145.5 | 105.8 | 79.4  | 66.1  | 39.7  | 39.7  | 39.7  | 39.7 | 39.7 |  |
|                | ASCE    | (Ust)  | i      |       |       |       |       |       |       |       |       |      |      |  |
|                | ZD 463  | H (ft) | 162.7  | 151.9 | 141.1 | 124.7 | 108.3 | 91.9  | 75.5  | 59.1  | 42.7  |      |      |  |
|                | FEM     | (Ust)  | 121.3* | 93.7  | 77.2  | 77.2  | 77.2  | 77.2  | 77.2  | 77.2  | 77.2  |      |      |  |
|                | ASCE    | (Ust)  | i      |       |       |       |       |       |       |       |       |      |      |  |

## Counter-jib ballast

|                                                                                     |  (lb) - 50 LVF<br>(+/- 5%) |                                                                                     |                                                                                     |  |         |                                                                                          |
|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|------------------------------------------------------------------------------------------|
|  |                            |  |  | 7937 lb                                                                             | 2425 lb |  (lb) |
| 213 ft                                                                              | 24,405                                                                                                        | 23,942                                                                              | 24,593                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 197 ft                                                                              | 23,964                                                                                                        | 23,501                                                                              | 24,152                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 180 ft                                                                              | 23,259                                                                                                        | 22,862                                                                              | 23,457                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 164 ft                                                                              | 22,597                                                                                                        | 22,201                                                                              | 22,796                                                                              | 4                                                                                   | 4       | 41,447                                                                                   |
| 148 ft                                                                              | 21,826                                                                                                        | 21,429                                                                              | 22,024                                                                              | 4                                                                                   | 3       | 39,022                                                                                   |
| 131 ft                                                                              | 20,966                                                                                                        | 20,569                                                                              | 21,164                                                                              | 4                                                                                   | 2       | 36,597                                                                                   |
| 115 ft                                                                              | 19,908                                                                                                        | 19,511                                                                              | 20,106                                                                              | 4                                                                                   | 1       | 34,172                                                                                   |
| 98 ft                                                                               | 18,805                                                                                                        | 18,409                                                                              | 18,993                                                                              | 4                                                                                   | 0       | 31,747                                                                                   |
| 82 ft                                                                               | 17,692                                                                                                        | 17,306                                                                              | 17,891                                                                              | 3                                                                                   | 2       | 28,660                                                                                   |

CAU - 7937 Ib

CAV - 2425 lb

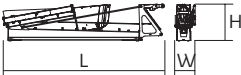
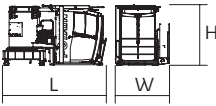
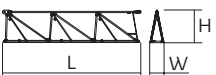
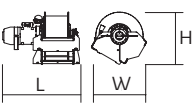
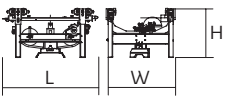
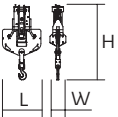
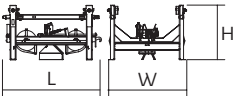
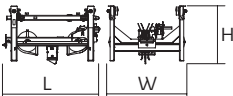
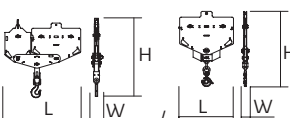


# Component weights

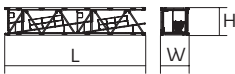
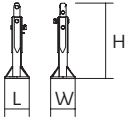
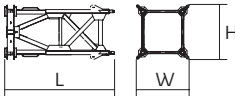
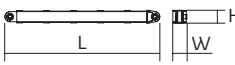
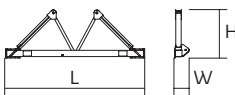
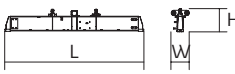
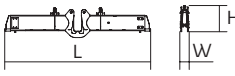
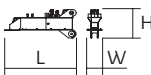
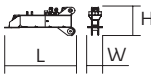
Crane upper :  213 ft  -  -  50 LVF

 x 3

 x 3

|                         |                                                                                     |                                                                                                                                                                                                     | L (ft)                                       | W (ft)                                 | H (ft)                                 | lb<br>(+/- 5%)                            |
|-------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------|
| Counter-jib             |    | Ⓐ<br>Ⓑ                                                                                                                                                                                              | 36.7<br>36.7                                 | 5.0<br>5.0                             | 8.3<br>8.3                             | 13,095<br>12,588                          |
| Pivot + cab             |    | UltraView<br>5.2 ft<br>6.6 ft                                                                                                                                                                       | 15.4<br>15.6                                 | 7.5<br>7.5                             | 8.2<br>8.2                             | 12,511<br>14,584                          |
| Jib section             |    | ①<br>50 LVF<br>7 DVF                                                                                                                                                                                | 35.8                                         | 9.6                                    | 8.6                                    | 10,439                                    |
| Jib section             |    | ②                                                                                                                                                                                                   | 33.7                                         | 3.4                                    | 7.9                                    | 4156                                      |
| Jib section             |    | ③<br>④<br>⑤<br>⑦<br>⑧<br>⑩                                                                                                                                                                          | 17.2<br>17.0<br>17.0<br>17.0<br>16.9<br>17.0 | 3.4<br>3.4<br>3.4<br>3.4<br>3.4<br>3.4 | 7.7<br>7.6<br>7.6<br>6.2<br>6.2<br>3.8 | 1653<br>1334<br>1334<br>860<br>783<br>529 |
| Jib section             |  | ⑥<br>⑨                                                                                                                                                                                              | 17.0<br>17.0                                 | 3.4<br>3.4                             | 7.6<br>6.2                             | 1058<br>661                               |
| Jib section             |  | ⑪                                                                                                                                                                                                   | 16.7                                         | 3.4                                    | 3.8                                    | 441                                       |
| Hoisting winch (+ rope) |  | 50 LVF<br>50 LVF GH                                                                                                                                                                                 | 4.9<br>5.2                                   | 3.1<br>4.2                             | 2.8<br>3.9                             | 2668<br>3439                              |
| Trolley                 |  | <br>11.0 USt                                                                                                    | 5.9                                          | 4.4                                    | 3.1                                    | 364                                       |
| Hook block              |  | <br>11.0 USt                                                                                                    | 3.3                                          | 1.4                                    | 6.6                                    | 441                                       |
| Trolley                 |  | <br>11.0 USt                                                                                                    | 5.4                                          | 4.3                                    | 3.0                                    | 364                                       |
| Trolley                 |  | <br>11.0 USt<br><br>5.5 USt | 5.2<br>5.2                                   | 4.3<br>4.2                             | 3.0<br>3.0                             | 353<br>507                                |
| Hook block              |  | <br>11.0 USt<br><br>5.5 USt | 5.4<br>3.6                                   | 0.8<br>0.5                             | 5.6<br>4.9                             | 683<br>694                                |

# Component weights

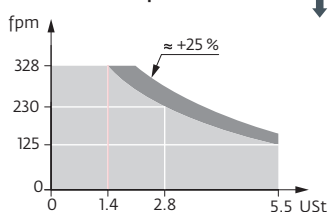
|                                        |                                                                                     |                                                                         | L (ft)                                                          | W (ft)                                                      | H (ft)                                                      | lb<br>(+/- 5%)                                                  |
|----------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|-----------------------------------------------------------------|
| Climbing cage                          |    | <div>5.2 ft</div> <div>6.6 ft</div>                                     | <div>36.7</div> <div>37.7</div>                                 | <div>12.9</div> <div>13.8</div>                             | <div>11.7</div> <div>14.3</div>                             | <div>12,930</div> <div>18,155</div>                             |
| K40/K40<br>K60/K60                     |    | <div>5.2 ft</div> <div>6.6 ft</div>                                     | <div>7.3</div> <div>6.6</div>                                   | <div>6.9</div> <div>8.1</div>                               | <div>6.8</div> <div>8.2</div>                               | <div>3208</div> <div>4365</div>                                 |
| K 437B<br>KM 437E<br>KM 439E<br>K 639B |    | <div>5.2 ft</div> <div>5.2 ft</div> <div>5.2 ft</div> <div>6.6 ft</div> | <div>33.5</div> <div>33.5</div> <div>33.5</div> <div>33.6</div> | <div>5.5</div> <div>5.5</div> <div>6.9</div> <div>6.8</div> | <div>5.3</div> <div>5.3</div> <div>6.8</div> <div>6.7</div> | <div>4079</div> <div>4916</div> <div>7165</div> <div>6184</div> |
| K 437A<br>K 439A<br>KR 649A<br>K 639A  |    | <div>5.2 ft</div> <div>5.2 ft</div> <div>6.6 ft</div> <div>6.6 ft</div> | <div>17.1</div> <div>17.1</div> <div>17.2</div> <div>17.2</div> | <div>5.5</div> <div>5.5</div> <div>6.9</div> <div>6.8</div> | <div>5.3</div> <div>5.3</div> <div>6.8</div> <div>6.7</div> | <div>4079</div> <div>4916</div> <div>7165</div> <div>6184</div> |
| K 437C<br>K 639C                       |    | <div>5.2 ft</div> <div>6.6 ft</div>                                     | <div>11.3</div> <div>11.7</div>                                 | <div>5.5</div> <div>6.8</div>                               | <div>5.3</div> <div>6.7</div>                               | <div>2998</div> <div>4376</div>                                 |
| Fixing angles                          |   | <div>P 41A</div> <div>P 602A</div>                                      | <div>1.2</div> <div>2.1</div>                                   | <div>1.2</div> <div>2.1</div>                               | <div>3.7</div> <div>4.2</div>                               | <div>298</div> <div>650</div>                                   |
| Chassis mast                           |  | <div>S 41A</div> <div>V 60A</div> <div>V 63A</div>                      | <div>11.9</div> <div>16.4</div> <div>32.9</div>                 | <div>6.4</div> <div>7.9</div> <div>7.9</div>                | <div>6.8</div> <div>7.9</div> <div>7.9</div>                | <div>6537</div> <div>9678</div> <div>16,502</div>               |
| Struts                                 |  | <div>S 41A</div> <div>V 60A</div> <div>V 63A</div>                      | <div>10.4</div> <div>14.8</div> <div>14.8</div>                 | <div>0.9</div> <div>1.0</div> <div>1.1</div>                | <div>0.8</div> <div>1.0</div> <div>1.1</div>                | <div>496</div> <div>926</div> <div>1135</div>                   |
| Half-bearer                            |  | <div>S 41A</div> <div>V 60A</div> <div>V 63A</div>                      | <div>16.7</div> <div>22</div> <div>22</div>                     | <div>2</div> <div>2.3</div> <div>2.3</div>                  | <div>5.8</div> <div>7.6</div> <div>7.6</div>                | <div>2524</div> <div>3527</div> <div>4079</div>                 |
| Cross girder                           |  | ZD 4230                                                                 | 21.8                                                            | 2.7                                                         | 3.4                                                         | 4034                                                            |
| Cross girder                           |  | ZD 4230                                                                 | 21.8                                                            | 1.5                                                         | 4.4                                                         | 4707                                                            |
| Cross girder                           |  | ZD 463                                                                  | 25.1                                                            | 3.8                                                         | 4.5                                                         | 7904                                                            |
| 1/2 Cross girder                       |  | ZD 463                                                                  | 11.2                                                            | 2.3                                                         | 4.4                                                         | 3649                                                            |
| 1/2 Cross girder                       |  | ZD 463                                                                  | 11.2                                                            | 2.4                                                         | 4.4                                                         | 3682                                                            |

# Mechanisms

| 480 V - 60 Hz                                                                     |                            |     |  |     |     |     |  |     |     |     | hp      | kW      |  |  |
|-----------------------------------------------------------------------------------|----------------------------|-----|-----------------------------------------------------------------------------------|-----|-----|-----|-----------------------------------------------------------------------------------|-----|-----|-----|---------|---------|-------------------------------------------------------------------------------------|--|
|  | 50 LVF 25 Optima           | fpm | 125                                                                               | 161 | 230 | 328 | 62                                                                                | 80  | 115 | 164 | 50      | 37      | 912 ft                                                                              |  |
|                                                                                   | 50 LVF 25 GH Optima        | USt | 5.5                                                                               | 4.1 | 2.8 | 1.4 | 11.0                                                                              | 8.3 | 5.5 | 2.8 | 50      | 37      | 1690 ft                                                                             |  |
|  | 7 DVF 4                    | fpm | 0 → 259                                                                           |     |     |     |                                                                                   |     |     |     | 6.5     | 4.8     |                                                                                     |  |
|  | RVF 162 Optima+            | rpm | 0 → 0.8                                                                           |     |     |     |                                                                                   |     |     |     | 2 x 7.5 | 2 x 5.5 |                                                                                     |  |
|   | RT 443 A1 - 2V<br>R ≥ 10 m | fpm | 59 - 118                                                                          |     |     |     |                                                                                   |     |     |     | 4 x 6   | 4 x 4.4 |                                                                                     |  |
|   | RT 544 A1 - 2V<br>R ≥ 13 m | fpm | 52 - 105                                                                          |     |     |     |                                                                                   |     |     |     | 4 x 8.4 | 4 x 6.2 |                                                                                     |  |
|   | RT 664 A2B - 2V            | fpm | 62 - 125                                                                          |     |     |     |                                                                                   |     |     |     | 6 x 8.4 | 6 x 6.2 |                                                                                     |  |
|  |                            |     |                                                                                   |     |     |     |                                                                                   |     |     |     |         |         |                                                                                     |  |
|   | RT 324                     | fpm | 49 - 98                                                                           |     |     |     |                                                                                   |     |     |     | 2 x 8.4 | 2 x 6.2 |                                                                                     |  |
|   | RT 443 A1 - 2V             | fpm | 59 - 118                                                                          |     |     |     |                                                                                   |     |     |     | 4 x 6   | 4 x 4.4 |                                                                                     |  |

|  IEC 60204-32 |  kVA |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 480 V (+6% -10%) 60 Hz                                                                           | 50 LVF : 58 kVA<br>50 LVF GH : 58 kVA                                                   |

50 LVF 25 Optima  
50 LVF 25 GH Optima



## Notes

# 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            |
|  | Consult us                |
|  | Static use only           |

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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