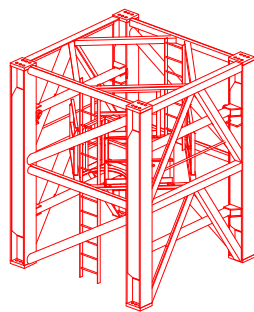
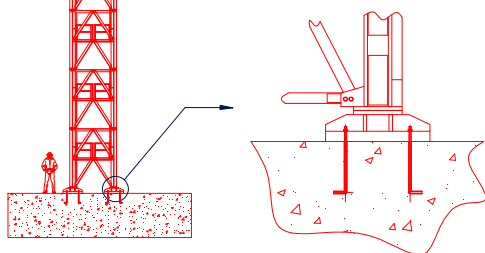


# M860DX TOWER CRANE

| TYPICAL LOADS |        |
|---------------|--------|
| LOAD          | RADIUS |
| 96T           | 11.8m  |
| 64T           | 19.0m  |
| 32T           | 34.2m  |
| 7T            | 72.0m  |



## Technical Data Sheet



**FAVELLE**  
**FAVCO**

**M860DX RADIUS AND CAPACITY ( WITHOUT AUXILIARY HOIST)**



| Boom Length | Max Rad. for Max WLL | Min Rad. | WLL at Min Rad. | 1 FALL                              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Max Rad. | WLL at Max Rad. |
|-------------|----------------------|----------|-----------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------------|
|             |                      |          |                 | Radius (metres) & Capacity (tonnes) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                 |
| (m)         | (m)                  | (m)      | (T)             | 7.5                                 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 57.5 | 60.0 | 62.5 | 65.0 | 67.5 | 70.0 | (m)      | (T)             |
| 73.4        | 15.9                 | 6.1      | 32.0            | 32.0                                | 32.0 | 32.0 | 29.0 | 26.8 | 24.8 | 22.9 | 21.2 | 20.2 | 19.1 | 17.7 | 16.4 | 15.2 | 14.2 | 13.2 | 12.3 | 11.5 | 10.8 | 10.1 | 9.5  | 72.0     | 8.9             |
| 68.8        | 31.0                 | 5.9      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 27.5 | 23.1 | 21.2 | 19.6 | 18.1 | 16.8 | 15.7 | 14.6 | 13.5 | 12.4 | 11.5 | 10.4 | 9.0  | -    | 67.6     | 8.9             |
| 64.2        | 31.8                 | 5.7      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 28.2 | 23.7 | 21.9 | 20.2 | 18.8 | 17.5 | 16.3 | 15.2 | 14.3 | 13.4 | 11.8 | -    | -    | -    | 63.1     | 11.4            |
| 59.6        | 32.0                 | 5.4      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 28.7 | 24.2 | 22.3 | 20.7 | 19.2 | 17.9 | 16.7 | 15.7 | 14.1 | -    | -    | -    | -    | -    | 58.7     | 13.2            |
| 55.0        | 32.8                 | 5.2      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 29.3 | 24.8 | 22.9 | 21.3 | 19.8 | 18.5 | 17.0 | -    | -    | -    | -    | -    | -    | -    | 54.3     | 15.3            |
| 50.4        | 32.7                 | 4.9      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 29.7 | 25.2 | 23.3 | 21.7 | 20.2 | -    | -    | -    | -    | -    | -    | -    | -    | -    | 49.8     | 17.5            |
| 45.8        | 33.0                 | 4.7      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 30.4 | 25.8 | 24.0 | 20.6 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 45.4     | 20.3            |
| 41.2        | 30.0                 | 4.5      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 25.1 | 22.1 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 40.9     | 22.1            |
| 36.6        | 34.2                 | 4.2      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 30.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 36.5     | 27.1            |

| Boom Length | Max Rad. for Max WLL | Min Rad. | WLL at Min Rad. | 2 FALL                              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Max Rad. | WLL at Max Rad. |
|-------------|----------------------|----------|-----------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------------|
|             |                      |          |                 | Radius (metres) & Capacity (tonnes) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                 |
| (m)         | (m)                  | (m)      | (T)             | 7.5                                 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 57.5 | 60.0 | 62.5 | 65.0 | 67.5 | 70.0 | (m)      | (T)             |
| 73.4        | -                    | 6.1      | 41.6            | 41.6                                | 41.6 | 41.0 | 37.3 | 34.0 | 31.2 | 27.3 | 22.6 | 20.7 | 19.0 | 17.5 | 16.1 | 14.9 | 13.7 | 12.7 | 11.7 | 10.8 | 10.1 | 9.4  | 8.8  | 71.9     | 8.4             |
| 68.8        | -                    | 5.9      | 52.9            | 52.9                                | 48.2 | 40.8 | 36.1 | 34.6 | 32.3 | 27.8 | 23.1 | 21.2 | 19.5 | 18.0 | 16.6 | 15.4 | 14.3 | 13.3 | 12.3 | 11.5 | 10.4 | -    | -    | 67.4     | 8.1             |
| 64.2        | -                    | 5.6      | 59.4            | 56.8                                | 52.3 | 44.8 | 41.3 | 38.1 | 34.8 | 28.6 | 23.9 | 22.0 | 20.2 | 18.7 | 17.4 | 16.1 | 15.0 | 14.0 | 12.8 | 11.1 | -    | -    | -    | 63.0     | 10.8            |
| 59.6        | 8.0                  | 5.4      | 64.0            | 64.0                                | 60.3 | 53.0 | 48.9 | 43.2 | 35.5 | 29.1 | 24.4 | 22.5 | 20.7 | 19.2 | 17.9 | 16.6 | 15.4 | 13.3 | -    | -    | -    | -    | -    | 58.5     | 12.9            |
| 55.0        | 11.3                 | 5.2      | 64.0            | 64.0                                | 64.0 | 59.1 | 54.4 | 44.4 | 36.3 | 29.9 | 25.1 | 23.2 | 21.5 | 19.9 | 18.6 | 16.2 | -    | -    | -    | -    | -    | -    | -    | 54.1     | 15.1            |
| 50.4        | 18.3                 | 4.9      | 64.0            | 64.0                                | 64.0 | 59.3 | 45.8 | 36.8 | 30.4 | 25.6 | 23.7 | 22.0 | 19.5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 49.6     | 17.4            |
| 45.8        | 18.6                 | 4.7      | 64.0            | 64.0                                | 64.0 | 60.1 | 46.5 | 37.5 | 31.1 | 26.3 | 23.6 | 20.3 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 45.2     | 20.2            |
| 41.2        | 18.8                 | 4.5      | 64.0            | 64.0                                | 64.0 | 60.6 | 47.0 | 37.9 | 31.5 | 23.7 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 40.7     | 23.4            |
| 36.6        | 19.0                 | 4.2      | 64.0            | 64.0                                | 64.0 | 61.4 | 47.8 | 38.7 | 29.3 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 36.3     | 27.3            |

| Boom Length | Max Rad. for Max WLL | Min Rad. | WLL at Min Rad. | 3 FALL                              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Max Rad. | WLL at Max Rad. |
|-------------|----------------------|----------|-----------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------------|
|             |                      |          |                 | Radius (metres) & Capacity (tonnes) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                 |
| (m)         | (m)                  | (m)      | (T)             | 7.5                                 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 57.5 | 60.0 | 62.5 | 65.0 | 67.5 | 70.0 | (m)      | (T)             |
| 73.4        | -                    | 5.7      | 42.6            | 42.6                                | 42.6 | 41.9 | 37.8 | 34.3 | 30.1 | 25.4 | 21.6 | 19.6 | 17.8 | 16.2 | 14.8 | 13.6 | 12.4 | 11.4 | 10.5 | 9.7  | 8.9  | 8.3  | 7.6  | 71.6     | 6.9             |
| 68.8        | -                    | 5.4      | 55.2            | 54.7                                | 49.9 | 42.1 | 37.5 | 36.3 | 31.7 | 26.8 | 22.3 | 20.3 | 18.5 | 16.9 | 15.5 | 14.2 | 13.1 | 12.1 | 11.2 | 10.4 | 9.6  | -    | -    | 67.1     | 8.4             |
| 64.2        | -                    | 5.2      | 65.0            | 63.7                                | 57.7 | 48.6 | 44.4 | 40.6 | 33.6 | 28.0 | 23.2 | 21.2 | 19.4 | 17.8 | 16.4 | 15.1 | 14.0 | 13.0 | 12.0 | 10.2 | -    | -    | -    | 62.7     | 10.1            |
| 59.6        | -                    | 5.0      | 79.4            | 73.0                                | 66.1 | 55.5 | 50.8 | 42.1 | 34.5 | 28.5 | 23.7 | 21.8 | 20.0 | 18.5 | 17.1 | 15.8 | 14.6 | 12.6 | -    | -    | -    | -    | -    | 58.2     | 12.1            |
| 55.0        | -                    | 4.7      | 92.0            | 81.1                                | 74.6 | 63.3 | 56.0 | 44.9 | 35.8 | 29.3 | 24.5 | 22.6 | 20.8 | 19.3 | 17.8 | 15.5 | -    | -    | -    | -    | -    | -    | -    | 53.8     | 14.3            |
| 50.4        | 11.8                 | 4.5      | 96.0            | 96.0                                | 96.0 | 77.5 | 58.7 | 45.5 | 36.4 | 29.9 | 25.1 | 23.1 | 21.4 | 18.8 | -    | -    | -    | -    | -    | -    | -    | -    | -    | 49.3     | 16.7            |
| 45.8        | 12.6                 | 4.2      | 96.0            | 96.0                                | 96.0 | 81.8 | 60.2 | 46.4 | 37.2 | 30.7 | 25.9 | 22.9 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 44.9     | 19.6            |
| 41.2        | 12.8                 | 4.0      | 96.0            | 96.0                                | 96.0 | 83.9 | 60.7 | 46.9 | 37.7 | 31.2 | 23.2 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 40.5     | 22.6            |
| 36.6        | 13.0                 | 3.7      | 96.0            | 96.0                                | 96.0 | 84.8 | 61.6 | 47.7 | 38.5 | 28.7 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 36.0     | 26.5            |

**M860DX RADIUS AND CAPACITY (WITH AUXILIARY HOIST)**



| Boom Length | Max Rad. for Max WLL | Min Rad. | WLL at Min Rad. | 1 FALL                              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Max Rad. | WLL at Max Rad. |      |
|-------------|----------------------|----------|-----------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------------|------|
|             |                      |          |                 | Radius (metres) & Capacity (tonnes) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                 |      |
| (m)         | (m)                  | (m)      | (T)             | 7.5                                 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 57.5 | 60.0 | 62.5 | 65.0 | 67.5 | 70.0     | (m)             | (T)  |
| 73.4        | 15.8                 | 6.1      | 32.0            | 32.0                                | 32.0 | 32.0 | 28.5 | 26.3 | 24.4 | 22.5 | 20.7 | 19.8 | 18.2 | 16.7 | 15.4 | 14.3 | 13.2 | 12.2 | 11.4 | 10.5 | 9.7  | 8.6  | 7.1      | 72.0            | 5.8  |
| 68.8        | 20.0                 | 5.9      | 32.0            | 32.0                                | 32.0 | 32.0 | 28.4 | 26.3 | 24.4 | 22.1 | 20.3 | 18.6 | 17.2 | 15.9 | 14.7 | 13.7 | 12.7 | 11.7 | 10.4 | 8.9  | 7.9  | -    | -        | 67.6            | 7.8  |
| 64.2        | 26.5                 | 5.7      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 30.6 | 27.3 | 22.8 | 20.9 | 19.3 | 17.8 | 16.5 | 15.4 | 14.3 | 13.3 | 11.7 | 9.4  | -    | -    | -    | -        | 63.1            | 9.1  |
| 59.6        | 31.3                 | 5.4      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 27.7 | 23.2 | 21.4 | 19.7 | 18.3 | 17.0 | 15.5 | 13.6 | 11.3 | -    | -    | -    | -    | -        | 58.7            | 10.8 |
| 55.0        | 31.9                 | 5.2      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 28.4 | 23.9 | 22.0 | 20.4 | 18.9 | 17.1 | 14.5 | -    | -    | -    | -    | -    | -    | -        | 54.3            | 13.6 |
| 50.4        | 32.1                 | 4.9      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 28.8 | 24.3 | 22.4 | 20.8 | 19.0 | -    | -    | -    | -    | -    | -    | -    | -    | -        | 49.8            | 16.6 |
| 45.8        | 32.9                 | 4.7      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 29.5 | 24.9 | 22.7 | 19.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 45.4            | 18.7 |
| 41.2        | 33.1                 | 4.5      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 29.8 | 23.9 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 40.9            | 22.3 |
| 36.6        | 33.5                 | 4.2      | 32.0            | 32.0                                | 32.0 | 32.0 | 32.0 | 32.0 | 32.0 | 29.2 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 36.5            | 26.2 |

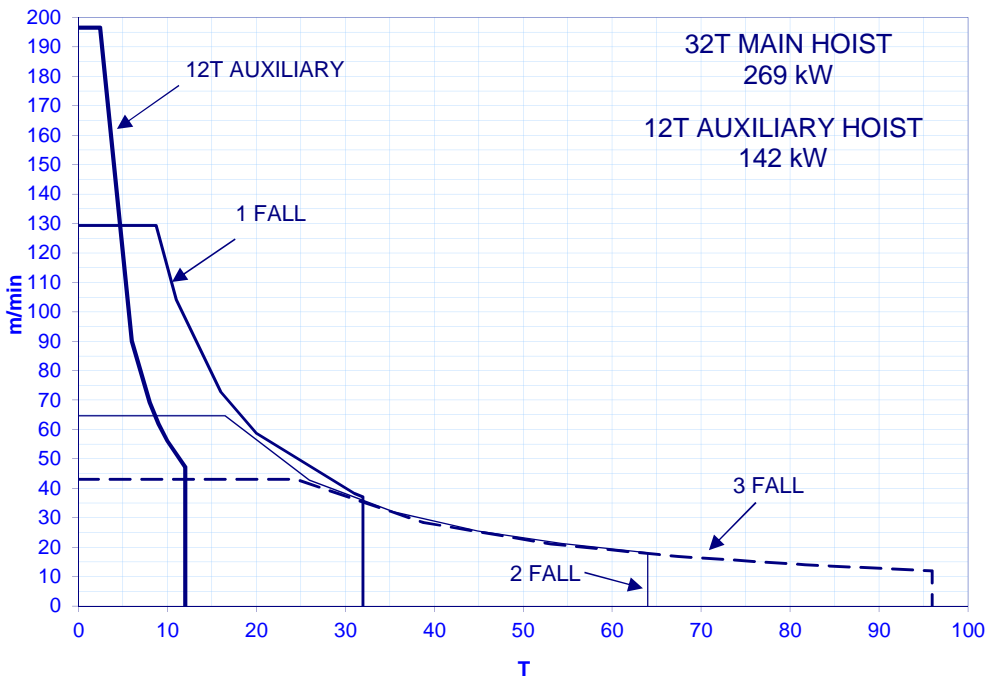
| Boom Length | Max Rad. for Max WLL | Min Rad. | WLL at Min Rad. | 2 FALL                              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Max Rad. | WLL at Max Rad. |      |
|-------------|----------------------|----------|-----------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------------|------|
|             |                      |          |                 | Radius (metres) & Capacity (tonnes) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                 |      |
| (m)         | (m)                  | (m)      | (T)             | 7.5                                 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 57.5 | 60.0 | 62.5 | 65.0 | 67.5 | 70.0     | (m)             | (T)  |
| 73.4        | -                    | 6.1      | 41.5            | 41.5                                | 41.5 | 38.3 | 33.9 | 30.9 | 28.5 | 25.3 | 21.3 | 19.4 | 17.6 | 16.0 | 14.5 | 12.8 | 11.7 | 10.5 | 9.3  | 8.3  | 7.2  | 6.2  | 5.3      | 71.9            | 4.8  |
| 68.8        | -                    | 5.9      | 53.6            | 52.0                                | 47.4 | 40.0 | 35.3 | 33.8 | 31.9 | 26.8 | 22.1 | 20.2 | 18.5 | 17.0 | 15.6 | 14.3 | 13.1 | 12.1 | 11.1 | 10.3 | 8.9  | -    | -        | 67.4            | 8.1  |
| 64.2        | -                    | 5.7      | 62.8            | 60.3                                | 54.6 | 46.0 | 41.3 | 39.9 | 33.8 | 27.6 | 22.9 | 20.9 | 19.2 | 17.7 | 16.3 | 15.1 | 14.0 | 12.9 | 11.7 | 9.5  | -    | -    | -        | 63.0            | 9.3  |
| 59.6        | 9.3                  | 5.4      | 64.0            | 64.0                                | 62.2 | 52.3 | 48.3 | 42.1 | 34.5 | 28.1 | 23.4 | 21.5 | 19.7 | 18.2 | 16.9 | 15.5 | 13.6 | 11.3 | -    | -    | -    | -    | -        | 58.5            | 11.0 |
| 55.0        | 12.9                 | 5.2      | 64.0            | 64.0                                | 64.0 | 59.3 | 54.4 | 44.3 | 35.3 | 28.9 | 24.1 | 22.2 | 20.5 | 18.9 | 17.1 | 14.5 | -    | -    | -    | -    | -    | -    | -        | 54.1            | 14.0 |
| 50.4        | 18.0                 | 4.9      | 64.0            | 64.0                                | 64.0 | 64.0 | 58.3 | 44.8 | 35.8 | 29.4 | 24.6 | 22.7 | 21.0 | 18.5 | -    | -    | -    | -    | -    | -    | -    | -    | -        | 49.6            | 16.4 |
| 45.8        | 18.3                 | 4.7      | 64.0            | 64.0                                | 64.0 | 64.0 | 59.2 | 45.6 | 36.5 | 30.1 | 25.4 | 22.5 | 19.1 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 45.2            | 19.0 |
| 41.2        | 18.7                 | 4.5      | 64.0            | 64.0                                | 64.0 | 64.0 | 59.6 | 46.0 | 37.0 | 30.6 | 23.8 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 40.7            | 23.5 |
| 36.6        | 19.0                 | 4.2      | 64.0            | 64.0                                | 64.0 | 64.0 | 60.5 | 46.8 | 37.7 | 28.3 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 36.3            | 26.3 |

| Boom Length | Max Rad. for Max WLL | Min Rad. | WLL at Min Rad. | 3 FALL                              |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Max Rad. | WLL at Max Rad. |      |
|-------------|----------------------|----------|-----------------|-------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----------|-----------------|------|
|             |                      |          |                 | Radius (metres) & Capacity (tonnes) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |          |                 |      |
| (m)         | (m)                  | (m)      | (T)             | 7.5                                 | 10.0 | 15.0 | 20.0 | 25.0 | 30.0 | 35.0 | 40.0 | 42.5 | 45.0 | 47.5 | 50.0 | 52.5 | 55.0 | 57.5 | 60.0 | 62.5 | 65.0 | 67.5 | 70.0     | (m)             | (T)  |
| 73.4        | -                    | 5.7      | 41.5            | 41.5                                | 41.5 | 38.3 | 33.9 | 30.9 | 28.5 | 25.3 | 21.3 | 19.4 | 17.6 | 16.0 | 14.5 | 12.8 | 11.7 | 10.5 | 9.3  | 8.3  | 7.2  | 6.2  | 5.3      | 71.6            | 4.8  |
| 68.8        | -                    | 5.4      | 55.2            | 53.7                                | 49.0 | 41.3 | 36.6 | 35.2 | 31.5 | 26.0 | 21.1 | 19.1 | 17.3 | 15.7 | 14.3 | 13.0 | 11.9 | 10.9 | 10.0 | 9.2  | 8.3  | -    | -        | 67.1            | 6.9  |
| 64.2        | -                    | 5.2      | 65.0            | 62.8                                | 56.8 | 47.7 | 43.4 | 40.4 | 33.4 | 26.9 | 22.0 | 20.0 | 18.2 | 16.6 | 15.2 | 14.0 | 12.8 | 11.8 | 11.0 | 9.0  | -    | -    | -        | 62.7            | 8.9  |
| 59.6        | -                    | 5.0      | 72.7            | 72.2                                | 65.2 | 54.6 | 49.5 | 40.5 | 32.9 | 27.5 | 22.7 | 20.6 | 18.9 | 17.3 | 15.9 | 14.6 | 13.1 | 10.8 | -    | -    | -    | -    | -        | 58.2            | 10.4 |
| 55.0        | -                    | 4.7      | 86.3            | 82.7                                | 74.4 | 62.3 | 56.0 | 43.9 | 34.8 | 28.3 | 23.5 | 21.6 | 19.8 | 18.2 | 16.8 | 14.9 | -    | -    | -    | -    | -    | -    | -        | 53.8            | 13.7 |
| 50.4        | 6.5                  | 4.5      | 96.0            | 92.1                                | 84.2 | 71.8 | 58.3 | 44.5 | 35.4 | 28.9 | 24.1 | 22.1 | 20.4 | 18.2 | -    | -    | -    | -    | -    | -    | -    | -    | -        | 49.3            | 16.1 |
| 45.8        | 9.6                  | 4.2      | 96.0            | 96.0                                | 94.9 | 79.1 | 59.2 | 45.4 | 36.2 | 29.7 | 24.9 | 22.0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 44.9            | 18.5 |
| 41.2        | 13.0                 | 4.0      | 96.0            | 96.0                                | 96.0 | 82.9 | 59.7 | 45.9 | 36.7 | 30.2 | 23.3 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 40.5            | 22.7 |
| 36.6        | 13.5                 | 3.7      | 96.0            | 96.0                                | 96.0 | 83.9 | 60.6 | 46.7 | 37.5 | 27.7 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -        | 36.0            | 25.6 |

| Boom Length<br>(m) | Max Rad. for Max WLL<br>(m) | Min Rad.<br>(m) | 1 FALL<br>Radius(metres) & Capacity (tonnes) |      |      |      |      |      |      |      | WLL at Min Rad.<br>(T) | Max Rad.<br>(m) | WLL at Max Rad.<br>(T) |
|--------------------|-----------------------------|-----------------|--|------|------|------|------|------|------|------|------------------------|-----------------|------------------------|
|                    |                             |                 | 52.5   | 55.0 | 57.5 | 60.0 | 62.5 | 65.0 | 67.5 | 70.0 |                        |                 |                        |
| 73.4               | 50.0                        | 7.6             | 12.0   | 11.6 | 9.8  | 9.2  | 7.4  | 6.3  | 5.1  | 4.7  | 12.0                   | 74.3            | 4.7                    |
| 68.8               | 52.5                        | 7.3             | 12.0   | 12.0 | 10.4 | 10.1 | 9.2  | 8.1  | 7.0  | -    | 12.0                   | 69.6            | 6.6                    |
| 64.2               | 52.5                        | 7.0             | 12.0   | 12.0 | 12.0 | 10.2 | 9.0  | 7.9  | -    | -    | 12.0                   | 65.4            | 7.7                    |
| 59.6               | 52.5                        | 6.7             | 12.0   | 12.0 | 10.7 | 9.0  | -    | -    | -    | -    | 12.0                   | 61.0            | 8.6                    |
| 55.0               | 50.0                        | 6.4             | 12.0   | 10.5 | -    | -    | -    | -    | -    | -    | 12.0                   | 56.6            | 9.5                    |
| 50.4               | 51.9                        | 6.0             | -  | -    | -    | -    | -    | -    | -    | -    | 12.0                   | 51.9            | 12.0                   |
| 45.8               | 47.4                        | 5.7             | -  | -    | -    | -    | -    | -    | -    | -    | 12.0                   | 47.4            | 12.0                   |
| 41.2               | 43.0                        | 5.4             | -  | -    | -    | -    | -    | -    | -    | -    | 12.0                   | 43.0            | 12.0                   |
| 36.6               | 38.6                        | 5.1             | -  | -    | -    | -    | -    | -    | -    | -    | 12.0                   | 38.6            | 12.0                   |

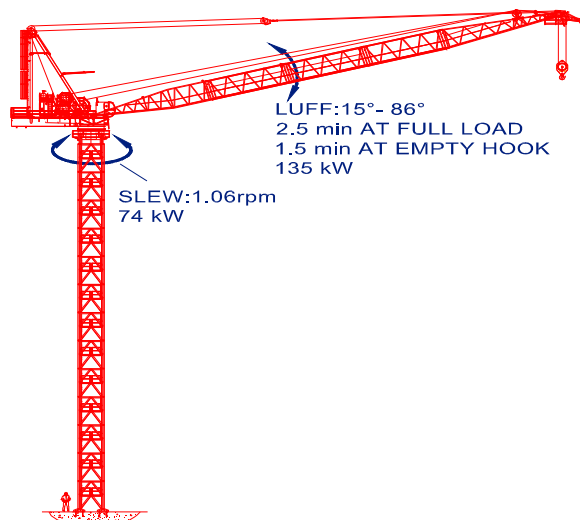
M860DX SPEEDS

HOIST SPEED



| LOAD (T) | SPEED (m/min) |
|----------|---------------|
| 8.7      | 129.4         |
| 11.0     | 104.1         |
| 16.0     | 72.8          |
| 20.0     | 58.7          |
| 31.0     | 38.3          |
| 32.0     | 37.1          |
| 16.5     | 64.7          |
| 26.0     | 42.8          |
| 35.4     | 32.0          |
| 44.9     | 25.5          |
| 54.3     | 21.3          |
| 64.0     | 18.1          |
| 24.5     | 43.1          |
| 38.8     | 28.4          |
| 53.1     | 21.1          |
| 67.4     | 16.8          |
| 81.7     | 14.0          |
| 96.0     | 12.0          |
| 2.4      | 196.6         |
| 6.0      | 90.1          |
| 8.0      | 69.1          |
| 9.0      | 61.9          |
| 10.0     | 56.1          |
| 12.0     | 47.2          |

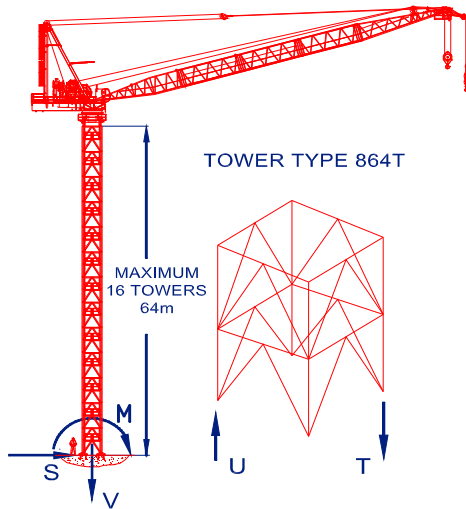
LUFF&SLEW SPEEDS



# M860DX GENERAL DIMENSIONS (TYPICAL CASES AT 55.0m BOOM LENGTH)



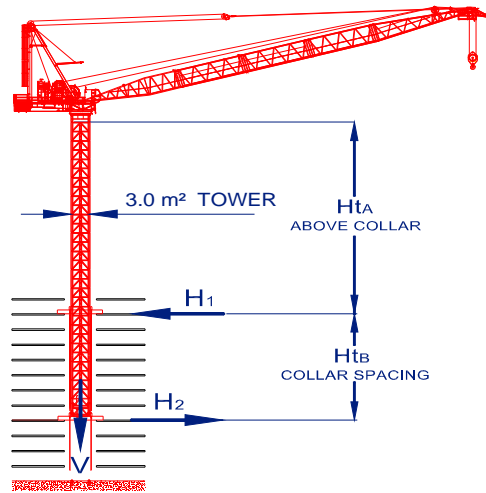
## CRANE FREE-STANDING WITHOUT CLIMBING FRAME



### BUILDING REACTION

| Design Load         | I/S* | O/S† | O/S high ^ | Unit |
|---------------------|------|------|------------|------|
| NO. of Towers       | 16   | 16   | 12         | -    |
| M                   | 1394 | 1630 | 3094       | mT   |
| V                   | 361  | 237  | 212        | T    |
| S                   | 9    | 39   | 80         | T    |
| T                   | 430  | 480  | 863        | T    |
| U                   | 300  | 368  | 757        | T    |
| Ht <sub>Total</sub> | 64   | 64   | 48         | m    |

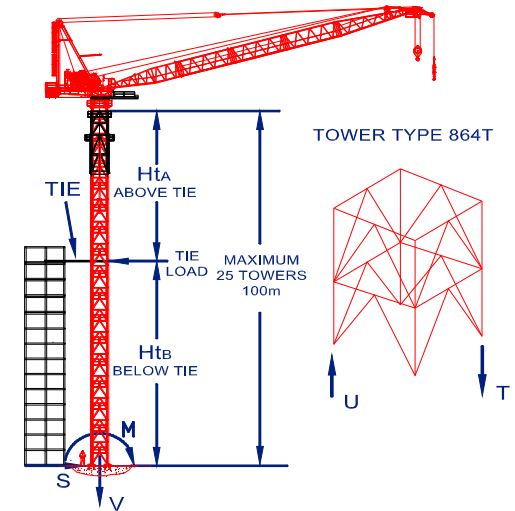
## INTERNAL CLIMBER ON COLLARS



### BUILDING REACTION

| Design Load     | I/S* | O/S† | O/S high^ | Unit |
|-----------------|------|------|-----------|------|
| NO. of Towers   | 16   | 16   | 12        | -    |
| V               | 261  | 237  | 212       | T    |
| H <sub>1</sub>  | 84   | 95   | 183       | T    |
| H <sub>2</sub>  | 76   | 62   | 117       | T    |
| Ht <sub>A</sub> | 48   | 48   | 32        | m    |
| Ht <sub>B</sub> | 16   | 16   | 16        | m    |

## WITH CLIMBER- ONE TIE ABOVE THE BASE



### BUILDING REACTION

| Design Load         | I/S* | O/S† | O/S high^ | Unit |
|---------------------|------|------|-----------|------|
| NO. of Towers       | 25   | 25   | 18        | -    |
| TIE                 | 48   | 77   | 199       | T    |
| M                   | 660  | 643  | 1335      | mT   |
| V                   | 336  | 311  | 268       | T    |
| S                   | 40   | 39   | 118       | T    |
| T                   | 257  | 296  | 417       | T    |
| U                   | 89   | 91   | 283       | T    |
| Ht <sub>A</sub>     | 50   | 50   | 38        | m    |
| Ht <sub>B</sub>     | 50   | 50   | 34        | m    |
| Ht <sub>Total</sub> | 100  | 100  | 72        | m    |

\*:IN SERVICE WIND=20 m/s

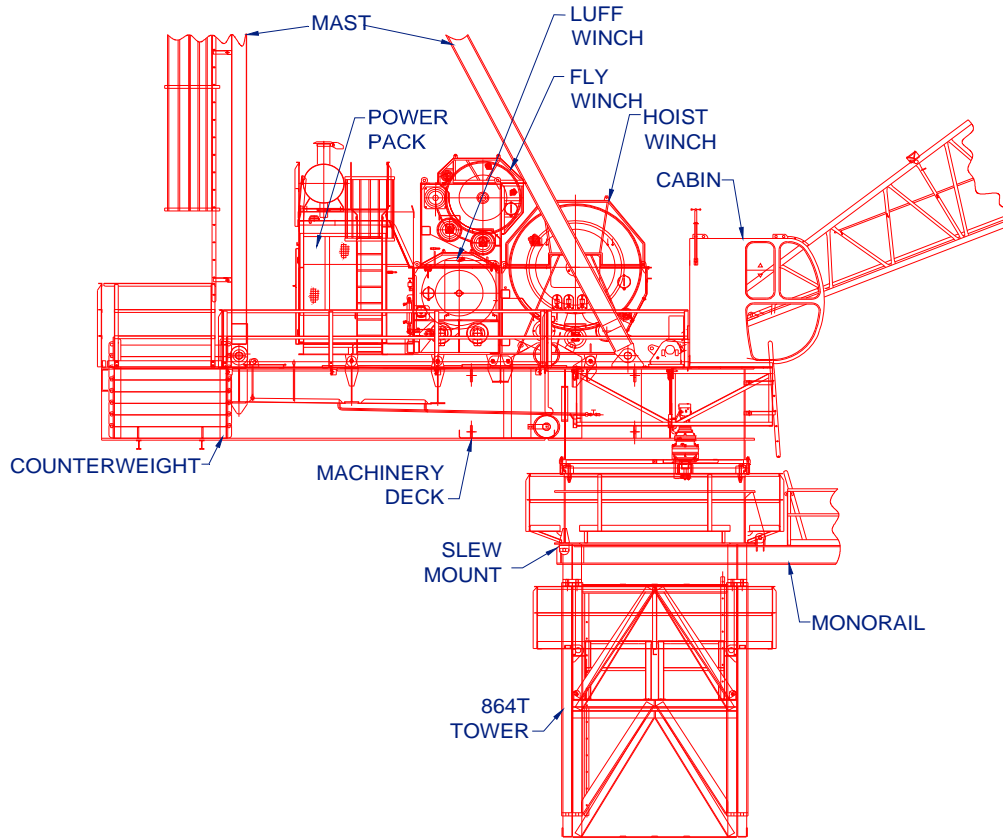
†:OUT OF SERVICE WIND= 42 m/s

^:HIGH WIND (i.e. CYCLONE)= 65 m/s

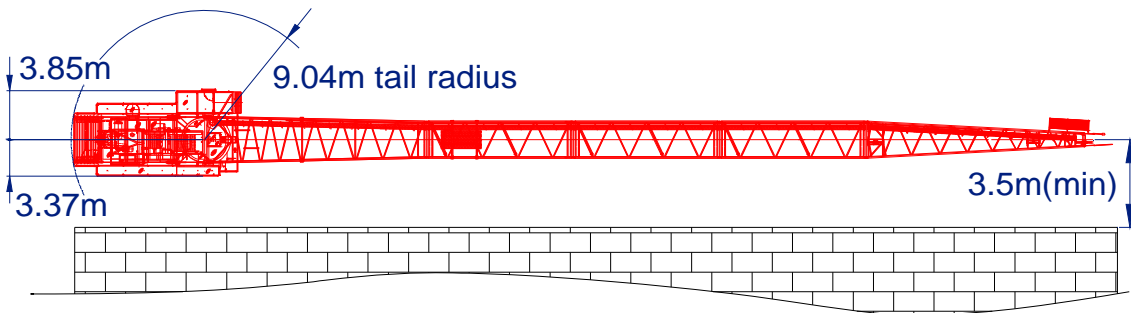
Notes:

1. Structure is designed using permissible stress method. These loads will vary by change of boom length, height and type of tower, actual site wind conditions, no of falls and change of wind speed.
2. To calculate alternative options for M860D refer to Favelle Favco Design Sheet named "Crane Weight Wind Chart".
3. The above data is published for preliminary consideration and reference guide only. Do not use for lifting purposes.

MACHINERY DECK ASSEMBLY



EXTERNAL CLIMBING  
INSTALLATION CLEARANCE



OUT OF SERVICE CONFIGURATION

| Boom Length (m) | Minimum weathervaning* |           |
|-----------------|------------------------|-----------|
|                 | Radius (m)             | Angle (°) |
| 73.4            | 19.7                   | 74.7      |
| 68.8            | 17.8                   | 75.3      |
| 64.2            | 16.2                   | 75.6      |
| 59.6            | 14.7                   | 75.9      |
| 55.0            | 14.5                   | 75.0      |
| 50.4            | 15.5                   | 72.3      |
| 45.8            | 16.8                   | 68.8      |
| 41.2            | 18.2                   | 64.2      |
| 36.6            | 19.9                   | 57.5      |

\*: MINIMUM WEATHERVANING POSITION IS BASED ON THE WIND SPEED OF 20 m/s OR BOOM FLOAT AT 25 m/s

| ITEM | QTY | DESCRIPTION   | LENGTH<br>L (mm) | HEIGHT<br>H (mm) | WIDTH<br>W (mm) | WEIGHT<br>PER ITEM (kg) |                |
|------|-----|---|------------------|------------------|-----------------|-------------------------|----------------|
| 1    | 1   | SPLIT DECK-FRONT<br>(INCL. SLEW DRIVE, PINS & HANDRAILS)                  |                  | 3370             | 2127            | 3390                    | 9675           |
| 2    | 1   | SPLIT DECK-REAR   |                  | 7255             | 1445            | 3390                    | 12206          |
| 3    | 1   | POWERPACK<br>(INCL. 850L OF OIL)  |                  | 3008             | 3207            | 2024                    | 5020           |
| 4    | 2   | MAST FRONT LEG  |                  | 13250            | 1099            | 519                     | 2545EA         |
|      | 1   | MAST HEAD   |                  | 1120             | 1152            | 852                     | 934            |
|      | 2   | MAST BACK LEG   |                  | 12020            | 250             | 390                     | 990EA          |
|      | 1   | BUFFER  |                  | 3740             | 231             | 2974                    | 398            |
|      |     | MAST ASSEMBLY (INC. SHEAVES, HEAD PIN, LADDERS,BUFFER AND PLATFORMS)      |                  |                  |                 |                         | 9716           |
| 5    | 1   | CABIN & PLATFORM ASSEMBLY   |                  | 4607             | 3286            | 1660                    | 2470           |
| 6    | 1   | MAIN HOIST WINCH ASSY (EMPTY DRUM)<br>(750 m WINCH CAPACITY)              |                  | 2464             | 2915            | 1765                    | 9351           |
| 7    | 1   | AUX. HOIST WINCH ASSY (EMPTY DRUM)<br>(500 m WINCH CAPACITY)              |                  | 1771             | 1937            | 1730                    | 3708           |
| 8    | 1   | LUFF WINCH ASSY (EMPTY DRUM)  |                  | 2846             | 1995            | 1576                    | 3968           |
| 9    | 1   | BOOM BOTTOM 9.1m<br>(INC. WALKWAY&PINS)                                   |                  | 9360             | 2814            | 2815                    | 1985           |
| 10   | 1   | BOOM TOP 9.1m<br>(INC. DEFLECTOR, SHEAVES & PINS)<br>(PENDANT & PLATFORM) |                  | 9465             | 2814            | 1920                    | 3888           |
| 11   | 6   | BOOM EXTENSION 9.2m<br>AND PENDANT BARS<br>(BRIDLE PLATFORM 462 kg)       |                  | 9316             | 2991            | 2814                    | 1877<br>(2339) |
| 12   | 1   | BOOM FLY 2.4m   |                  | 2845             | 1205            | 851                     | 451            |
| 14   | 1   | BRIDLE  |                  | 1865             | 1010            | 1056                    | 703            |
| 15   | 1   | SLEW MOUNT<br>(INCL. PLATFORMS 850Kg)                                     |                  | 3710             | 1871            | 3370                    | 6183           |
|      | 1   | SLEW RING<br>(INCL. BOLTS)  |                  | 3100 DIA.        | 175             |                         | 2245           |
|      |     | Total   |                  |                  |                 |                         | 8428           |
| 16   | 1   | CLIMBER   |                  | 11530            | 1000            | 3500                    | 16760          |
| 17   | 1   | MONORAIL  |                  | 8000             | 1697            | 650                     | 3120           |
| 18   | 8   | COUNTER WEIGHT  |                  | 2750             | 257             | 1915                    | 8194           |
| 19   | 1   | HOOK - 3/2/1 FALL (96/64/32T)   |                  | 2760             | 420             | 1340                    | 2683           |
| 20   | 1   | HOOK - 1 FALL (12T)   |                  | 2804             | 320             | 327                     | 520            |
| 20   |     | TOWER SECTION<br>(INC.LADDER,HAND RAIL,PLATFORM)                          |                  | 3050             | 4003            | 3031                    | 6235           |
| 21   | 1   | HOIST ROPE (42mm) @ 8.56kg/m  |                  | 400m             |                 |                         | 3561           |
|      | 1   | HOIST ROPE (32mm) @ 5.01kg/m  |                  | 200m             |                 |                         | 1042           |
| 22   | 1   | LUFF ROPE (32mm) @ 4.87 kg/m  |                  | 220m             |                 |                         | 1115           |