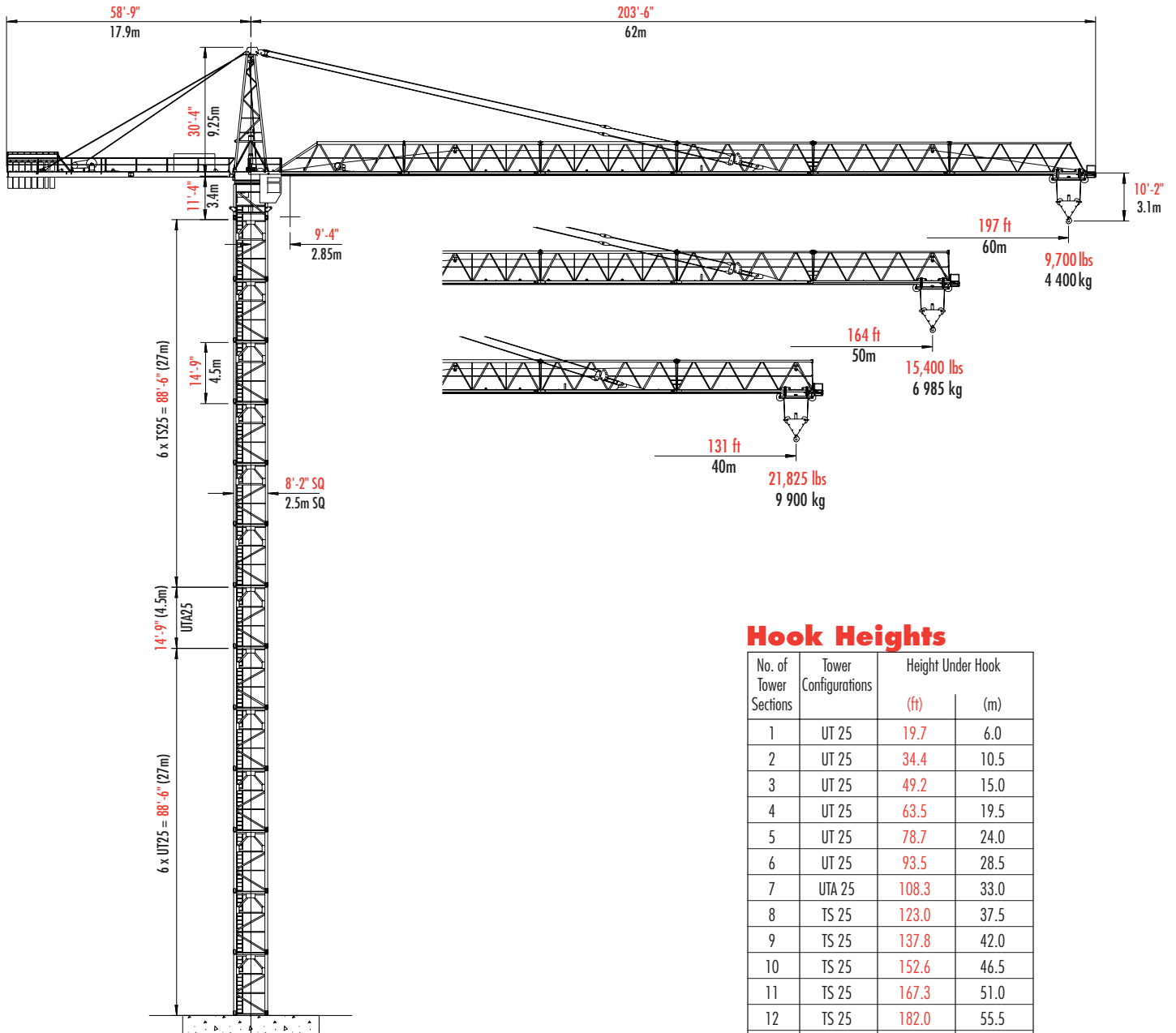


# Wolff WK 415-EC

## TOWER CRANE



**STATIONARY  
FREESTANDING**

### Hook Heights

| No. of Tower Sections | Tower Configurations | Height Under Hook |      |
|-----------------------|----------------------|-------------------|------|
|                       |                      | (ft)              | (m)  |
| 1                     | UT 25                | 19.7              | 6.0  |
| 2                     | UT 25                | 34.4              | 10.5 |
| 3                     | UT 25                | 49.2              | 15.0 |
| 4                     | UT 25                | 63.5              | 19.5 |
| 5                     | UT 25                | 78.7              | 24.0 |
| 6                     | UT 25                | 93.5              | 28.5 |
| 7                     | UTA 25               | 108.3             | 33.0 |
| 8                     | TS 25                | 123.0             | 37.5 |
| 9                     | TS 25                | 137.8             | 42.0 |
| 10                    | TS 25                | 152.6             | 46.5 |
| 11                    | TS 25                | 167.3             | 51.0 |
| 12                    | TS 25                | 182.0             | 55.5 |
| 13                    | TS 25*               | 197.0             | 60.0 |

\* Lower the top climbing unit to base of crane prior to operating crane at maximum hook height.

Other tower combinations are possible. Contact Morrow Equipment for additional information.



# Morrow Equipment

# SPECIFICATIONS

## Wolff Tower Crane Model WK 415-EC

### Hoist Speed and Capacity

| Hoist Unit   | Hw 10 85 3 | 2-Part Line |              |            |             |            |
|--|------------|-------------|--------------|------------|-------------|------------|
|  |            | Gear        | Capacity     | Line Speed | Capacity    | Line Speed |
| 114 hp (85.0 kW) AC hoist unit<br>3-speed gearbox<br>Remote-controlled gear shifting<br>Eddy current brake |            | 1           | 22,045 lbs @ | 134 fpm    | 10 000 kg @ | 40 m/min   |
|  |            | 2           | 9,920 lbs @  | 276 fpm    | 4 500 kg @  | 84 m/min   |
|  |            | 3           | 3,305 lbs @  | 670 fpm    | 1 500 kg @  | 204 m/min  |
|  |            | 4-Part Line |              |            |             |            |
|  |            | 1           | 44,090 lbs @ | 67 fpm     | 20 000 kg @ | 20 m/min   |
|  |            | 2           | 19,840 lbs @ | 138 fpm    | 9 000 kg @  | 42 m/min   |
|  |            | 3           | 6,610 lbs @  | 335 fpm    | 3 000 kg @  | 102 m/min  |

### Motor Information

| Drive Unit                  | Horsepower | Kilowatts  | Speed            |                   |
|-----------------------------|------------|------------|------------------|-------------------|
| Trolley (Tw 76) 2-Part Line | 9.8 hp     | 7.3 kW     | 12 - 120/236 fpm | 3.6 - 36/72 m/min |
| Trolley (Tw 76) 4-Part Line | 9.8 hp     | 7.3 kW     | 6 - 60/118 fpm   | 1.8 - 18/36 m/min |
| Swing (Dw-SG)               | 2 x 9.8 hp | 2 x 7.3 kW | 0.7 rpm          |                   |

### Power Requirements

|                                |  |
|--------------------------------|--|
| 480 Volts — 3-phase — 60-cycle | 200 Amperes service with 114 hp (85 kW) hoist unit |
|--------------------------------|--|

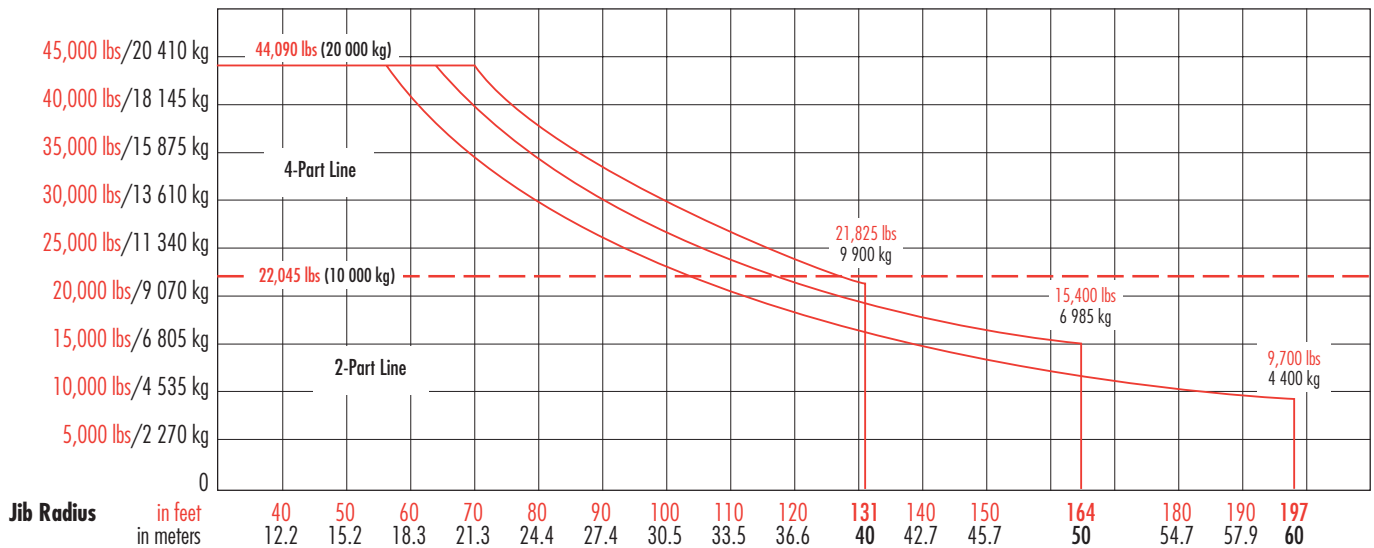
Specifications subject to change without notice. For other configurations and specifications, contact Morrow Equipment.

**Morrow Equipment Co., L.L.C.**

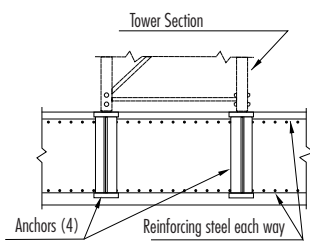
## Wolff Tower Crane Model WK 415-EC

| Hook Radius   | 4-Part Line                             | 2-Part Line                              | ft  | 56     | 66     | 82     | 98     | 112    | 118    | 131    | 141    | 148    | 154    | 164    | 171    | 180    | 190    | 197   |
|---------------|---|--|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
|               | Max Capacity – Radius                   | Max Capacity – Radius                    | m   | 17     | 20     | 25     | 30     | 34     | 36     | 40     | 43     | 45     | 47     | 50     | 52     | 55     | 58     | 60    |
| 197 ft<br>60m | 44,090 lbs – 56 ft<br>20 000 kg – 16.9m | 22,045 lbs – 103 ft<br>10 000 kg – 31.4m | lbs | 44,090 | 36,600 | 28,500 | 23,200 | 20,000 | 18,700 | 16,400 | 15,000 | 14,200 | 13,400 | 12,400 | 11,800 | 10,900 | 10,200 | 9,700 |
|               |   |  | kg  | 20 000 | 16 600 | 12 930 | 10 525 | 9 070  | 8 480  | 7 440  | 6 805  | 6 440  | 6 080  | 5 625  | 5 350  | 4 945  | 4 625  | 4 400 |
| 164 ft<br>50m | 44,090 lbs – 66 ft<br>20 000 kg – 20m   | 22,045 lbs – 122 ft<br>10 000 kg – 37.2m | lbs | 44,090 | 44,090 | 34,600 | 28,200 | 24,500 | 22,900 | 20,200 | 18,600 | 17,600 | 16,700 | 15,400 |        |        |        |       |
|               |   |  | kg  | 20 000 | 20 000 | 15 695 | 12 790 | 11 115 | 10 385 | 9 165  | 8 435  | 7 985  | 7 575  | 6 985  |        |        |        |       |
| 131 ft<br>40m | 44,090 lbs – 70 ft<br>20 000 kg – 21.4m | 22,045 lbs – 130 ft<br>10 000 kg – 39.6m | lbs | 44,090 | 44,090 | 37,170 | 30,360 | 26,460 | 24,755 | 21,825 |        |        |        |        |        |        |        |       |
|               |   |  | kg  | 20 000 | 20 000 | 16 860 | 13 770 | 12 000 | 11 230 | 9 900  |        |        |        |        |        |        |        |       |

### Capacity

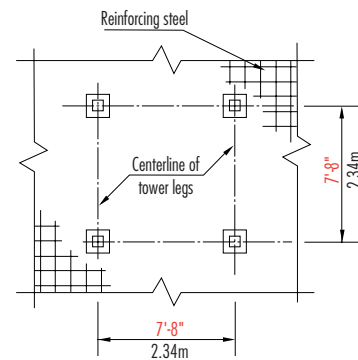


## Foundation Details



Elevation

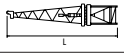


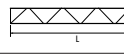

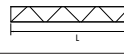

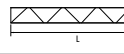

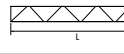

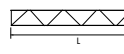
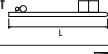



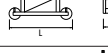








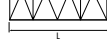
### FOUNDATION (Concrete)



Plan View

# Component List

# WK 415-EC

| Description   | Dimensions*                                     | Weight                  | Description   | Dimensions*                                       | Weight                  |
|---|---|-------------------------|---|---|-------------------------|
| Turntable & Tower Top <sup>1</sup>                   | 41'-8" x 9'-3" x 9'-6"<br>12.7m x 2.82m x 2.9m  | 38,300 lbs<br>17 370 kg | Jib Section ①                               | 32'-6" x 7'-5" x 8'-2"<br>9.91m x 2.25m x 2.48m   | 6,170 lbs<br>2 800 kg   |
| Hydraulic Cylinder, Pump and Reservoir               | 17'-7" x 1'-6" x 2'-9"<br>5.35m x 0.46m x 0.83m | 7,700 lbs<br>3 490 kg   | Jib Section ②                               | 34'-0" x 7'-5" x 8'-2"<br>10.36m x 2.25m x 2.48m  | 5,290 lbs<br>2 400 kg   |
| Tower Top    | 30'-2" x 7'-11" x 8'-4"<br>9.2m x 2.4m x 2.54m  | 8,000 lbs<br>3 630 kg   | Jib Section ③                               | 34'-0" x 7'-5" x 8'-2"<br>10.36m x 2.25m x 2.48m  | 5,290 lbs<br>2 400 kg   |
| Turntable with Slewing Motors                        | 25'-8" x 9'-3" x 9'-6"<br>7.83m x 2.82m x 2.9m  | 30,300 lbs<br>13 745 kg | Jib Section ④                               | 34'-0" x 7'-5" x 8'-2"<br>10.36m x 2.25m x 2.48m  | 5,335 lbs<br>2 420 kg   |
| Turntable Upper Part <sup>2</sup>                    | 7'-10" x 9'-3" x 9'-6"<br>2.39m x 2.82m x 2.9m  | 15,500 lbs<br>7 030 kg  | Jib Section ⑤                               | 34'-0" x 7'-5" x 8'-2"<br>10.36m x 2.25m x 2.48m  | 4,300 lbs<br>1 950 kg   |
| Turntable Lower Part <sup>3</sup>                    | 9'-2" x 8'-4" x 8'-9"<br>2.8m x 2.54m x 2.67m   | 14,800 lbs<br>6 715 kg  | Jib Section ⑥                               | 32'-10" x 7'-5" x 8'-2"<br>10.0m x 2.25m x 2.48m  | 2,955 lbs<br>1 340 kg   |
| Counterjib with Hoist Unit & Switchbox <sup>4</sup>  | 54'-6" x 9'-6" x 6'-1"<br>16.6m x 2.9m x 1.85m  | 22,575 lbs<br>10 240 kg | Jib Assembly <sup>5</sup><br>197'-ft (60m)   | 199'-5" x 7'-5" x 8'-2"<br>60.8m x 2.25m x 2.48m  | 35,495 lbs<br>16 100 kg |
| Operator Cab with Access Platform                    | 5'-8" x 3'-4" x 7'-3"<br>1.73m x 1.02m x 2.21m  | 1,700 lbs<br>770 kg     | Jib Assembly <sup>5</sup><br>164'-ft (50m)   | 166'-7" x 7'-5" x 8'-2"<br>50.8m x 2.25m x 2.48m  | 32,540 lbs<br>14 760 kg |
| Trolley   | 9'-7" x 8'-4" x 3'-5"<br>2.91m x 2.54m x 1.05m  | 1,465 lbs<br>665 kg     | Jib Assembly <sup>5</sup><br>131'-ft (40m)  | 133'-10" x 7'-5" x 8'-2"<br>40.8m x 2.25m x 2.48m | 27,030 lbs<br>12 260 kg |
| Hook Block 2/4-part Combination                    | 6'-2" x 0'-9" x 6'-11"<br>1.87m x 0.23m x 2.11m | 1,500 lbs<br>680 kg     | Counterweight Block A                    | 6'-5" x 1'-4" x 6'-10"<br>1.96m x 0.40m x 2.08m   | 8,200 lbs<br>3 720 kg   |
| Tower Section TS 25                                | 15'-10" x 8'-2" x 8'-3"<br>4.82m x 2.5m x 2.52m | 6,065 lbs<br>2 750 kg   | Counterweight Block B                    | 6'-5" x 1'-1" x 6'-10"<br>1.96m x 0.33m x 2.08m   | 6,600 lbs<br>2 995 kg   |
| Tower Section UT 25                                | 15'-11" x 8'-2" x 8'-4"<br>4.84m x 2.5m x 2.54m | 8,480 lbs<br>3 850 kg   | Counterweight Block C                    | 6'-5" x 0'-10" x 6'-10"<br>1.96m x 0.25m x 2.08m  | 5,000 lbs<br>2 270 kg   |
| Transition Section UTA 25                          | 15'-10" x 8'-2" x 8'-4"<br>4.82m x 2.5m x 2.54m | 8,035 lbs<br>3 645 kg   | Top Climbing Unit KWH 25-80 <sup>6</sup>  | 29'-2" x 10'-4" x 9'-10"<br>8.9m x 3.15m x 3.0m   | 17,415 lbs<br>7 900 kg  |

\* Dimensions expressed as Length x Width x Height.

<sup>1</sup> Does not include cab and hydraulics.

<sup>2</sup> Includes race bearing, gearboxes and motors.

<sup>3</sup> Does not include race bearing.

<sup>4</sup> Does not include wire rope.

<sup>5</sup> Jib assemblies include jib sections, pendants, trolley and trolley rope.

<sup>6</sup> Does not include hydraulic cylinder.

**NOTE:** Weights and dimensions are approximate. Scale components before lifting.



**Morrow Equipment**  
C O M P A N Y, L. L. C.

3218 Pringle Road SE • P O Box 3306 • Salem OR 97302 USA • 503/585 5721 • Fax 503/363 1172



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