

## WOLFF 355 B US

Load moment: **max. 5100 kNm**

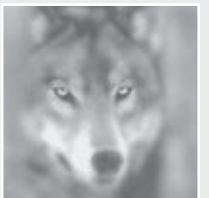
Lifting capacity: **max. 28.0 t (61730 lb)**

Jib radius: **max. 60.0 m (197')**

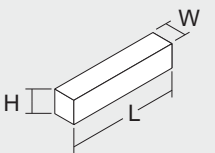
Compliant with ANSI Standard B30.3-2012 – Tower Cranes. Electrical equipment and wiring compliant with European Standard EN 60204-1 and relevant modifications based on the US Standard NFPA-70. All loads indicated with activated WOLFF BOOST. Bracketed loads with mounted auxiliary hoist and fly-jib.

### WOLFF 355 B US · Packing List · with auxiliary hoist components

| Pos. | Pcs. | Description   | Component | Length [m] (ft) | Width [m] (ft) | Height [m] (ft) | Weight [kg] (lb) | Volume [m³] (ft³) |
|------|------|---|-----------|-----------------|----------------|-----------------|------------------|-------------------|
| 1    | 1    | Tower top upper part  |           | 13.36 (43' 10") | 2.30 (7' 7")   | 2.52 (8' 3")    | 10405 (22939)    | 77.40 (2733.36)   |
| 2    | 1    | Tower top lower part  |           | 8.39 (27' 6")   | 2.30 (7' 7")   | 2.53 (8' 4")    | 15320 (33774)    | 48.82 (1724.06)   |
|      |      |   |           | 8.58 (28' 2")   | 2.32 (7' 7")   | 2.80 (9' 2")    | 16640 (36685)    | 55.74 (1968.44)   |
| 3    | 1    | Driver's cabin with suspension  |           | 2.80 (9' 2")    | 2.07 (6' 9")   | 2.81 (9' 3")    | 1500 (3307)      | 16.29 (575.28)    |
| 4    | 1    | Counterjib (including platforms, struts and standard railings)                              |           | 6.58 (21' 7")   | 2.30 (7' 7")   | 0.93 (3' 1")    | 4580 (10097)     | 14.08 (497.23)    |
| 5    | 1    | Machinery platform Hw 28110 FU (incl. 1030 m (3379') hoisting rope and 2nd brake)           |           | 2.31 (7' 7")    | 2.19 (7' 2")   | 2.41 (7' 11")   | 10815 (23843)    | 12.12 (428.01)    |
|      |      |   |           | 4.90 (16' 1")   | 2.56 (8' 5")   | 2.81 (9' 3")    | 11900 (26235)    | 35.52 (1254.38)   |
| 6    | 1    | Jib element 1 (including platforms)   |           | 11.92 (39' 1")  | 2.22 (7' 3")   | 2.00 (6' 7")    | 2790 (6151)      | 52.93 (1869.21)   |
| 7    | 1    | Jib element 2 (including WOLFF sign)  |           | 10.56 (34' 8")  | 1.71 (5' 7")   | 1.96 (6' 5")    | 1845 (4067)      | 35.40 (1250.14)   |
| 8    | 1    | Jib element 3   |           | 5.39 (17' 8")   | 1.71 (5' 7")   | 1.96 (6' 5")    | 980 (2161)       | 18.07 (638.14)    |
| 9    | 1    | Jib element 4   |           | 5.39 (17' 8")   | 1.71 (5' 7")   | 1.96 (6' 5")    | 945 (2083)       | 18.07 (638.14)    |
| 10   | 1    | Jib element 5.0   |           | 10.56 (34' 8")  | 1.71 (5' 7")   | 1.96 (6' 5")    | 1715 (3781)      | 35.40 (1250.14)   |
| 11   | 1    | Jib element 5.1   |           | 10.56 (34' 8")  | 1.71 (5' 7")   | 1.96 (6' 5")    | 1715 (3781)      | 35.40 (1250.14)   |
| 12   | 1    | Jib element 6 (including platforms)   |           | 10.16 (33' 4")  | 1.71 (5' 7")   | 1.99 (6' 6")    | 2580 (5688)      | 34.58 (1221.18)   |
| 13   | 5    | Braces (jib) (for 60 m (213') jib)  |           | 10.51 (34' 6")  | 0.24 (0' 9")   | 0.61 (2' 0")    | 1375 (3031)      | 1.54 (54.38)      |
| 14   | 1    | Hook block 28 t (61730 lb)  |           | 0.68 (2' 3")    | 0.26 (0' 10")  | 1.63 (5' 4")    | 540 (1190)       | 0.29 (10.24)      |
| 15   | 1    | Fly-Jib with hook block 8 t (17640 lb) and platforms  |           | 5.91 (19' 5")   | 1.27 (4' 2")   | 1.16 (3' 10")   | 1260 (2778)      | 8.71 (307.59)     |
| 16   | 1    | Auxiliary hoist switch cabinet with standard railings                                       |           | 2.08 (6' 10")   | 1.76 (5' 9")   | 2.16 (7' 1")    | 880 (1940)       | 7.91 (279.34)     |
| 17   | 1    | Auxiliary hoisting gear Hw 1675 FU with platforms   |           | 2.39 (7' 10")   | 1.10 (3' 7")   | 1.03 (3' 5")    | 3327 (7335)      | 2.71 (95.70)      |
| 18   | 2    | Support pulleys for auxiliary hoist rope  |           | 1.77 (5' 10")   | 1.04 (3' 5")   | 1.22 (4' 0")    | 190 (419)        | 2.25 (79.46)      |
| 19   | 5    | Suspended concrete weight with steel edge protection (Suitable for Hw28110FU and Hw28132FU) |           | 2.10 (6' 11")   | 0.54 (1' 9")   | 3.45 (11' 4")   | 8000 (17637)     | 3.91 (138.08)     |
| 20   | 1    | Lying concrete weight with steel edge protection (Suitable for Hw28110FU only)              |           | 2.15 (7' 11")   | 1.70 (5' 7")   | 1.09 (3' 7")    | 8000 (17637)     | 3.98 (140.55)     |
| 21   | 1    | Lying concrete weight with steel edge protection (Suitable for Hw28132FU only)              |           | 2.15 (7' 11")   | 1.70 (5' 7")   | 0.87 (2' 10")   | 6200 (13669)     | 3.18 (112.3)      |



Der Leitwolf.  
The leader of the pack.



Dimensions colli list

Steel counterweights available!

# WOLFF 355 B US

## Main Components

30 m (98') basic jib. Extensions up to 60 m (197') radius in 5 m (16') steps. Towntop with luffing winch. Slewing frame with driver's cabin, control cabinet, slewing gear, ball race bearing with central lubrication unit and slipping system. Counter-jib with hoisting winch and counterweights.

## Drive Technique

All drives with frequency controlled squirrel cage motors, and thermal motor protection. Hoisting winch Hw 28110 FU (147 hp) / Hw 28132 FU (177 hp). Slewing gear with electrically operated weathervaning device. Automatic windforce compensation controls. Luffing winch Ew 1575 FU (100 hp).

## Electrical Equipment

Multivoltage equipment for supplies from 380 V to 460 V at 50/60 cycles. Electronic safety crane controls with bus technology. Incremental absolute encoders for all operating movements. Electronic load measuring device. Multilingual graphic display in cabin showing both operational and diagnostics data.

## Safety Devices

Electronic overload protection system. Increase of load moment limitation by automatically hoisting speed reduction. Menu guided setting of overload protection system and all limiters from operators cabin. Working space limiter. Anti-collision interface. Electronically controlled level luffing. Standard with remote data transmission module and wind indicator.







## Tower Elements, Climbing Device

Tower configuration of WOLFF system tower elements. WOLFF slug bolt connection. Detachable hydraulic WOLFF system climbing device KWH 20.6.







## Crane Basis

On foundation anchors. Alternatively on stationary elements of the WOLFF KRE series. Cross Frame Elements of the KRE series can be modified to travelling WOLFF Undercarriages of the UW series. Both with gauges from 6.0 m (20') up to 8.0 m (26').

## Operating Speeds Hw 28110 FU

|           |              |  |  |  |  |  |  |
|-----------|--------------|---|---|---|---|---|---|
| Motor     | [kw]<br>(hp) | 110<br>(147)  | 110<br>(147)  | 75<br>(100)   | 7.5<br>(10)   | 6 x 5.5<br>(6 x 7.4)  | 75<br>(100)   |
| Speed     |              | 0 - 2.5 t<br>(0 - 5510 lb)<br>0 ... 185 m/min<br>(0 ... 607 ft/min)<br>stepless     | 0 - 5.5 t<br>(0 - 12120)<br>0 ... 92 m/min<br>(0 ... 302 ft/min)<br>stepless        | 1.8<br>min  | 0.8 min <sup>-1</sup>   | 25 m/min<br>(82 ft/min)   | 0 - 2.1 t<br>(0 - 4630)<br>0 ... 140 m/min<br>(0 ... 459 ft/min)<br>stepless        |
| Hook path | [m]<br>(ft)  | 920<br>(3018)   | 460<br>(1509)   |   |   |   | 600<br>(1969)   |

## Operating Speeds Hw 28132 FU

|           |              |  |  |  |  |  |  |
|-----------|--------------|---|---|---|---|---|---|
| Motor     | [kw]<br>(hp) | 132<br>(177)  | 132<br>(177)  | 75<br>(100)   | 7.5<br>(10)   | 6 x 5.5<br>(6 x 7.4)  | 75<br>(100)   |
| Speed     |              | 0 - 1.7 t<br>(0 - 3750 lb)<br>0 ... 290 m/min<br>(0 ... 951 ft/min)<br>stepless     | 0 - 4.0 t<br>(0 - 8820)<br>0 ... 146 m/min<br>(0 ... 479 ft/min)<br>stepless        | 1.8<br>min  | 0.8 min <sup>-1</sup>   | 25 m/min<br>(82 ft/min)   | 0 - 2.1 t<br>(0 - 4630)<br>0 ... 140 m/min<br>(0 ... 459 ft/min)<br>stepless        |
| Hook path | [m]<br>(ft)  | 920<br>(3018)   | 460<br>(1509)   |   |   |   | 600<br>(1969)   |

### WOLFF 355 B US · Load Data BOOST · without mounted fly-jib

| Jib radius [m] (ft)    |             | [m]<br>(ft)                       | 20<br>(65' 7") | 25<br>(82)      | 30<br>(98' 5")  | 35<br>(114' 10") | 40<br>(131' 3") | 45<br>(147' 8") | 50<br>(164' 1") | 55<br>(180' 5") | 60<br>(196' 10") |               |
|------------------------|-------------|-----------------------------------|----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|---------------|
| Jib length<br>(m) (ft) | 60<br>(197) | 5.4 - 29.0<br>(17' 9" - 95' 3")   | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 13.4<br>(29550)  | 10.8<br>(23870) | 8.9<br>(19620)  | 7.4<br>(16310)  | 6.2<br>(13670)  | 5.2<br>(11510)   | 4.4<br>(9700) |
|                        | 55<br>(180) | 5.0 - 30.2<br>(16' 5" - 99')      | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  | 11.5<br>(25360) | 9.6<br>(21050)  | 8.0<br>(17710)  | 6.8<br>(15040)  | 5.8<br>(12850)   |               |
|                        | 50<br>(164) | 4.5 - 31.9<br>(14' 9" - 104' 7")  | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  | 12.5<br>(27450) | 10.5<br>(23080) | 8.9<br>(19630)  | 7.7<br>(16970)  |                  |               |
|                        | 45<br>(148) | 4.1 - 33.7<br>(13' 5" - 110' 5")  | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  | 13.4<br>(29490) | 11.4<br>(25180) | 9.9<br>(21820)  |                 |                  |               |
|                        | 40<br>(131) | 3.6 - 36.7<br>(11' 10" - 120' 3") | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  | 14.0<br>(30860) | 12.8<br>(28130) |                 |                 |                  |               |
|                        | 35<br>(115) | 3.2 - 35.0<br>(10' 6" - 114' 10") | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  | 14.0<br>(30860) |                 |                 |                 |                  |               |
|                        | 30<br>(98)  | 2.7 - 30.0<br>(8' 10" - 98' 5")   | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  |                 |                 |                 |                 |                  |               |
| Jib length<br>(m) (ft) | 60<br>(197) | -                                 | -              | -               | -               | -                | -               | -               | -               | -               | -                | -             |
|                        | 55<br>(180) | -                                 | -              | -               | -               | -                | -               | -               | -               | -               | -                | -             |
|                        | 50<br>(164) | 4.5 - 17.4<br>(14' 9" - 57' 2")   | [t]<br>(lb)    | 23.9<br>(52710) | 18.4<br>(40560) | 14.7<br>(32450)  | 12.1<br>(26660) | 10.1<br>(22330) | 8.6<br>(18950)  | 7.4<br>(16250)  |                  |               |
|                        | 45<br>(148) | 4.1 - 18.0<br>(13' 5" - 59' 1")   | [t]<br>(lb)    | 24.9<br>(54970) | 19.4<br>(42780) | 15.7<br>(34650)  | 13.1<br>(28840) | 11.1<br>(24490) | 9.6<br>(21100)  |                 |                  |               |
|                        | 40<br>(131) | 3.6 - 18.6<br>(11' 10" - 61' 2")  | [t]<br>(lb)    | 26.0<br>(57330) | 20.6<br>(45360) | 17.0<br>(37380)  | 14.4<br>(31680) | 12.4<br>(27400) |                 |                 |                  |               |
|                        | 35<br>(115) | 3.2 - 19.2<br>(10' 6" - 62' 11")  | [t]<br>(lb)    | 26.8<br>(59110) | 21.2<br>(46810) | 17.5<br>(38600)  | 14.9<br>(32740) |                 |                 |                 |                  |               |
|                        | 30<br>(98)  | 2.7 - 19.8<br>(8' 10" - 65' 1")   | [t]<br>(lb)    | 27.8<br>(61240) | 22.3<br>(49230) | 18.7<br>(41230)  |                 |                 |                 |                 |                  |               |

### WOLFF 355 B US · Load Data BOOST · with mounted fly-jib

| Jib radius [m] (ft)    |             | [m]<br>(ft)                       | 20<br>(65' 7") | 25<br>(82)      | 30<br>(98' 5")  | 35<br>(114' 10") | 40<br>(131' 3") | 45<br>(147' 8") | 50<br>(164' 1") | 55<br>(180' 5") | 60<br>(196' 10") |               |
|------------------------|-------------|-----------------------------------|----------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|-----------------|------------------|---------------|
| Jib length<br>(m) (ft) | 60<br>(197) | 5.4 - 26.1<br>(17' 9" - 85' 9")   | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 11.3<br>(24940)  | 8.7<br>(19200)  | 6.8<br>(14890)  | 5.2<br>(11550)  | 4.0<br>(8870)   | 3.0<br>(6680)    | 2.2<br>(4850) |
|                        | 55<br>(180) | 5.0 - 26.9<br>(16' 5" - 88' 4")   | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 11.9<br>(26210)  | 9.3<br>(20420)  | 7.3<br>(16070)  | 5.8<br>(12680)  | 4.5<br>(9980)   | 3.5<br>(7760)    |               |
|                        | 50<br>(164) | 4.5 - 28.1<br>(14' 9" - 92' 1")   | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 12.7<br>(28080)  | 10.1<br>(22300) | 8.1<br>(17950)  | 6.6<br>(14590)  | 5.4<br>(11880)  |                  |               |
|                        | 45<br>(148) | 4.1 - 29.7<br>(13' 5" - 97' 4")   | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 13.8<br>(30390)  | 11.1<br>(24540) | 9.1<br>(20150)  | 7.6<br>(16730)  |                 |                  |               |
|                        | 40<br>(131) | 3.6 - 31.3<br>(11' 10" - 102' 8") | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  | 12.1<br>(26700) | 10.1<br>(22310) |                 |                 |                  |               |
|                        | 35<br>(115) | 3.2 - 31.8<br>(10' 6" - 104' 3")  | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  | 12.3<br>(27160) |                 |                 |                 |                  |               |
|                        | 30<br>(98)  | 2.7 - 30.0<br>(8' 10" - 98' 5")   | [t]<br>(lb)    | 14.0<br>(30860) | 14.0<br>(30860) | 14.0<br>(30860)  |                 |                 |                 |                 |                  |               |
| Jib length<br>(m) (ft) | 60<br>(197) | -                                 | -              | -               | -               | -                | -               | -               | -               | -               | -                | -             |
|                        | 55<br>(180) | -                                 | -              | -               | -               | -                | -               | -               | -               | -               | -                | -             |
|                        | 50<br>(164) | 4.5 - 17.8<br>(14' 9" - 58' 6")   | [t]<br>(lb)    | 21.6<br>(47710) | 16.1<br>(35520) | 12.4<br>(27400)  | 9.8<br>(21590)  | 7.8<br>(17250)  | 6.3<br>(13860)  | 5.1<br>(11150)  |                  |               |
|                        | 45<br>(148) | 4.1 - 16.8<br>(13' 5" - 55' 2")   | [t]<br>(lb)    | 22.7<br>(50090) | 17.2<br>(37820) | 13.4<br>(29630)  | 10.8<br>(23790) | 8.8<br>(19420)  | 7.3<br>(16010)  |                 |                  |               |
|                        | 40<br>(131) | 3.6 - 17.3<br>(11' 10" - 56' 9")  | [t]<br>(lb)    | 23.7<br>(52140) | 18.1<br>(39920) | 14.4<br>(31770)  | 11.8<br>(25950) | 9.8<br>(21580)  |                 |                 |                  |               |
|                        | 35<br>(115) | 3.2 - 17.7<br>(10' 6" - 58' 1")   | [t]<br>(lb)    | 24.3<br>(53550) | 18.6<br>(40890) | 14.7<br>(32460)  | 12.0<br>(26430) |                 |                 |                 |                  |               |
|                        | 30<br>(98)  | 2.7 - 18.1<br>(8' 10" - 59' 6")   | [t]<br>(lb)    | 25.2<br>(55440) | 19.6<br>(43270) | 16.0<br>(35170)  |                 |                 |                 |                 |                  |               |

## WOLFF-Boost

With the WOLFF-Boost function, the load is allowed to exceed the load torque range specified for the lifting capacities by up to 10%. This is, however, subject to the restriction that hoisting gear and luffing gear must only be moved alternately.



**CUSTOM SERVICE CRANE, INC.**

www.CustomServiceCrane.com | t: 217-897-1700 | Randy@customservicecrane.com