

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.

WOLFF 235 B US

Load moment: **max. 2958 kNm**

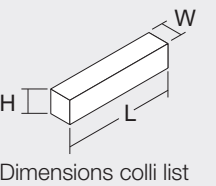
Lifting capacity: **max. 16.0 t (35270 lb)**

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



WOLFF 235 B US Colli List

| Pos. | Pcs. | Description | Colli | Length [m] (ft) | Width [m] (ft) | Height [m] (ft) | Weight [kg] (lb) | Volume [m³] (ft³) |
|------|------|--|-------|-----------------|----------------|-----------------|------------------|-------------------|
| 1 | 1 | Tower top upper part (incl. luffing gear with 2nd brake, platforms, 185 m (606' 11") luffing rope (370 kg (816 lb)) and counterjib braces) | | 12.02 (39' 5") | 2.58 (8' 6") | 2.61 (8' 7") | 9910 (21848) | 80.94 (2858.4) |
| | 1 | Tower top upper part (excl. luffing gear) | | 12.02 (39' 5") | 2.30 (7' 7") | 1.89 (6' 2") | 6470 (14264) | 55.84 (1972.0) |
| 2 | 1 | Tower top lower part | | 8.79 (28' 10") | 2.71 (8' 11") | 2.56 (8' 5") | 13380 (29498) | 60.98 (2153.5) |
| | 1 | Connection block Item 2 disassembled | | 3.52 (11' 7") | 2.30 (7' 7") | 2.48 (8' 2") | 3205 (7066) | 20.08 (709.1) |
| | 1 | Adapter lower tower top Item 2 disassembled | | 5.27 (17' 3") | 2.32 (7' 7") | 2.75 (9' 0") | 10175 (22432) | 33.62 (1187.3) |
| 3 | 1 | Driver's cabin with suspension (incl. switch cabinet) | | 5.56 (18' 3") | 2.08 (6' 10") | 2.56 (8' 5") | 2900 (6393) | 29.61 (1045.7) |
| 4 | 1 | Counterjib (incl. platforms) | | 7.04 (23' 1") | 2.33 (7' 8") | 0.88 (2' 11") | 4040 (8907) | 14.43 (509.6) |
| | 1 | Counterjib (incl. platforms, luffing gear with 2nd brake, 185 m (606' 11") luffing rope (370 kg (816 lb))) | | 7.04 (23' 1") | 2.33 (7' 8") | 2.10 (6' 11") | 6915 (15245) | 34.45 (1216.6) |
| 5 | 1 | Jib element 1 (incl. hoisting gear Hw1660FU with 2nd brake (620 kg (1367 lb)) and 285 m (935' 0") hoisting rope (587 kg (1294 lb))) | | 11.76 (38' 7") | 2.61 (8' 7") | 2.00 (6' 7") | 5190 (11442) | 57.54 (2032.0) |
| 6 | 1 | Jib element 2 (with WOLFF sign) | | 10.56 (34' 8") | 1.73 (5' 8") | 2.06 (6' 9") | 1750 (3858) | 37.63 (1328.9) |
| 7 | 1 | Jib element 3 | | 5.39 (17' 8") | 1.96 (6' 5") | 2.06 (6' 9") | 1080 (2381) | 21.76 (768.45) |
| 8 | 1 | Jib element 4 | | 5.39 (17' 8") | 1.96 (6' 5") | 1.73 (5' 8") | 870 (1918) | 18.28 (645.6) |
| 9 | 1 | Jib element 5 | | 10.56 (34' 8") | 2.01 (6' 7") | 1.73 (5' 8") | 1290 (2844) | 36.72 (1296.8) |
| 10 | 1 | Jib element 6 | | 10.56 (34' 8") | 1.96 (6' 5") | 1.73 (5' 8") | 1225 (2701) | 35.81 (1264.6) |
| 11 | 1 | Jib element 7 | | 9.99 (32' 9") | 1.94 (6' 4") | 1.98 (6' 6") | 1690 (3726) | 38.37 (1355.0) |
| 12 | 1 | Hook block U8/16 | | 1.43 (4' 8") | 0.60 (2' 0") | 0.35 (1' 2") | 590 (1301) | 0.30 (10.6) |
| 13 | 1 | Braces (for 60 m (197') jib) | | 10.48 (34' 5") | 0.72 (2' 4") | 0.22 (0' 9") | 725 (1598) | 1.62 (57.2) |
| 14 | 1 | Box (Loose parts) | | 1.00 (3' 3") | 1.00 (3' 3") | 1.00 (3' 3") | 150 (331) | 1.00 (35.3) |



Dimensions colli list

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WOLFF 235 B US

Main Components

30 m (98') basic jib with hoist drive. Extensions up to 60 m (197') radius in 5 m (16') steps. With hoist winch in jib and active compensator. Slewing frame with slewing gear, electrical central lubrication and slipping system, operator's cabin station with control cabinet. Counterjib with counterweights.

Drive Technique

All drives frequency controlled squirrel cage motors, fully thermal protected. Hoisting winch Hw 1660 FU, hoisting gear with performance optimization and performance reduction option. Slewing gear with electrically operated weathervaning device. Automatic windforce compensation. Luffing winch Ew 1660 FU.

Electrical Equipment

Multivoltage equipment for supplies from 480 V Y / 277 V 60 Hz. Voltage monitoring, electronic safety crane controls with bus technology. Incremental absolute encoders for all operating movements. Electronic load measuring. Multilingual graphic display with touchscreen. Wind indicator and signal lights.

Safety Devices

Electronic overload protection with WOLFF Boost. Increased load moment limitation due to automatic hoist speed reduction. Menu guided setting of overload protection system and of all limiters from operator's cabin. Working space limiter. Anti-collision interface. WOLFF Link data transfer hoist wick optional.

Tower Elements, Climbing Device

Tower configuration of WOLFF system tower elements. WOLFF slug bolt connection. Detachable hydraulic WOLFF system climbing device KWH 20.6.1 or inner climbing device KSH 20 SH.

Cross Frame KR, Mobile Cross Frame KRF

Cross Frames with 6.0 m (20') to 8.0 m (26'). Cross frames KR can be converted to KRF. Mobile cross frame KRF with 4.6 m (15') to 10.0 m (33').

Cross Frame Elements KRE, Cross Frame KR

For stationary installation. Cross frame elements KRE can be converted to undercarriage UW. Cross frames KR can be converted to KRF.

Power Requirements and hook paths (Slewing part)

118 kVA (Hw 1660 FU).
620 m (2034') with one-fall operation
310 m (1017') with two-fall operation

Operating Speeds · WOLFF 235 B US · (Hw 1660 FU)

| Motor | [kW] (hp) | 60 (80) | 60 (80) | 60 (80) | 1 x 7.5 (1 x 10) | 8 x 5.5 (8 x 7.4) |
|-----------|--------------|--|---|--------------------|--------------------------|---------------------------|
| Speed | | 0 - 2.0 t (0 - 4409 lb) 0 ... 130 m/min (0 ... 426 ft/min) stepless 0 - 8.0 t (0 - 17637 lb) 0 ... 38.0 m/min (0 ... 124 ft/min) | 0 - 4.0 t (0 - 8818 lb) 0 ... 65 m/min (0 ... 213 ft/min) stepless 0 - 16.0 t (0 - 35274 lb) 0 ... 19.0 m/min (0 ... 62 ft/min) | 1.3 ... 1.8 min | 0.8 min ⁻¹ | 30.0 m/min (98 ft/min) |
| Hook path | [m] (ft) | 620 (2034') | 310 (1017') | | | |

WOLFF 235 B US · Load Data

| Operating radius [m] (ft) | | [m] (ft) | 20 (65' 7") | 25 (82' 0") | 30 (98' 5") | 35 (114' 10") | 40 (131' 3") | 45 (147' 8") | 50 (164' 1") | 55 (180' 5") | 60 (196' 10") | Load capacity [t] (lb) |
|---------------------------|------------|------------|-------------|-------------|-------------|---------------|--------------|--------------|--------------|--------------|-------------------|------------------------|
| Jib length [m] (ft) | 60 (197') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 6.7 (22') | 5.2 (17') | 4.1 (13') | 3.3 (11') | 2.6 (9') | 2.1 (7') | 1.6 (5') | |
| | 55 (180') | 8.0 (26') | 8.0 (26') | 7.3 (24') | 5.8 (19') | 4.6 (15') | 3.8 (12') | 3.1 (10') | 2.5 (8') | 2.1 (7') | 1.6 (5') | |
| | 50 (164') | 8.0 (26') | 8.0 (26') | 7.8 (25') | 6.4 (21') | 5.3 (17') | 4.4 (14') | 3.7 (12') | 3.0 (10') | 2.5 (9') | 2.1 (7') | |
| | 45 (148') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 6.9 (23') | 5.8 (19') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | 2.5 (9') | |
| | 40 (131') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 7.5 (25') | 6.4 (21') | 5.8 (19') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | |
| | 35 (115') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 7.0 (23') | 6.0 (20') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | |
| | 30 (98') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 7.0 (23') | 6.0 (20') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | |
| | 60 (197') | 10.0 (33') | 10.0 (33') | 7.4 (24') | 5.6 (18') | 4.3 (14') | 3.4 (11') | 2.7 (9') | 2.1 (7') | 1.6 (5') | 1.2 (4') | 10.0 t (22050 lb) |
| 55 (180') | 12.0 (39') | 10.5 (34') | 7.9 (26') | 6.1 (20') | 4.9 (16') | 3.9 (13') | 3.2 (11') | 2.6 (9') | 2.1 (7') | 1.6 (5') | | |
| 50 (164') | 12.7 (40') | 10.1 (33') | 9.6 (30') | 7.5 (24') | 6.0 (20') | 4.9 (16') | 4.0 (13') | 3.3 (11') | 2.6 (9') | 2.1 (7') | | |
| 45 (148') | 13.3 (41') | 10.1 (33') | 10.1 (33') | 8.1 (26') | 6.6 (22') | 5.5 (18') | 4.6 (15') | 3.9 (13') | 3.2 (11') | 2.6 (9') | | |
| 40 (131') | 13.8 (42') | 10.7 (34') | 10.7 (34') | 8.6 (27') | 7.1 (23') | 6.0 (20') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | | |
| 35 (115') | 14.3 (44') | 11.3 (36') | 11.3 (36') | 9.3 (30') | 7.8 (25') | 6.6 (22') | 5.5 (18') | 4.6 (15') | 3.9 (13') | 3.2 (11') | | |
| 30 (98') | 14.8 (45') | 11.8 (37') | 11.8 (37') | 9.8 (32') | 8.0 (26') | 6.6 (22') | 5.5 (18') | 4.6 (15') | 3.9 (13') | 3.2 (11') | | |
| 60 (197') | 16.0 (52') | 13.8 (44') | 10.7 (34') | 8.6 (27') | 7.1 (23') | 6.0 (20') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | 16.0 t (35270 lb) | |
| 55 (180') | 16.0 (52') | 13.8 (44') | 10.7 (34') | 8.6 (27') | 7.1 (23') | 6.0 (20') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | | |
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WOLFF 235 B US · Load Data BOOST

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|---------------------------|------------|------------|-------------|-------------|-------------|---------------|--------------|--------------|--------------|--------------|-------------------|------------------------|
| Jib length [m] (ft) | 60 (197') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 6.7 (22') | 5.2 (17') | 4.1 (13') | 3.3 (11') | 2.6 (9') | 2.1 (7') | 1.6 (5') | |
| | 55 (180') | 8.0 (26') | 8.0 (26') | 7.3 (24') | 5.8 (19') | 4.6 (15') | 3.8 (12') | 3.1 (10') | 2.5 (8') | 2.1 (7') | 1.6 (5') | |
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| | 45 (148') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 6.9 (23') | 5.8 (19') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | 2.5 (9') | |
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| | 30 (98') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 8.0 (26') | 7.0 (23') | 6.0 (20') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | |
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| 45 (148') | 13.3 (41') | 10.1 (33') | 10.1 (33') | 8.1 (26') | 6.6 (22') | 5.5 (18') | 4.6 (15') | 3.9 (13') | 3.2 (11') | 2.6 (9') | | |
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| 45 (148') | 16.0 (52') | 13.8 (44') | 10.7 (34') | 8.6 (27') | 7.1 (23') | 6.0 (20') | 5.0 (16') | 4.4 (14') | 3.7 (12') | 3.0 (10') | | |
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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.



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