

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.

\* Standard rear radius

\*\* Modified rear radius

All loads indicated with activated WOLFF BOOST. Bracketed loads with mounted auxiliary hoist and fly-jib.

## WOLFF 700 B US

Load moment: **max. 8000 kNm**

Lifting capacity: **max. 50.0 t (110230 lb)**

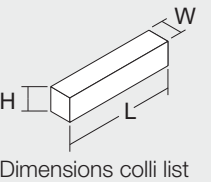
Jib radius: **max. 70.0 m (230')**

### WOLFF 700 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		11.95 (39' 2")	2.50 (8' 2")	2.57 (8' 5")	9500 (20943)	76.78 (2711.49)
2	1	Tower top bracing		10.18 (33' 5")	0.72 (2' 4")	0.43 (1' 5")	1600 (3527)	3.15 (111.24)
3	1	Tower top lower part		8.52 (27' 11")	3.05 (10')	2.66 (8' 9")	20400 (44972)	69.12 (2440.97)
	1	Connection frame		4.27 (14')	2.35 (7' 9")	2.30 (7' 7")	4500 (9920)	23.08 (815.07)
	1	Slewing frame		2.32 (7' 7")	2.57 (8' 5")	2.97 (9' 9")	13300 (29320)	17.71 (625.43)
	1	Adapter tower top lower part		2.32 (7' 7")	2.80 (9' 2")	2.52 (8' 3")	2600 (5732)	14.73 (520.19)
4	1	Operator's cabin with platform		3.91 (12' 10")	2.06 (6' 9")	2.62 (8' 7")	1340 (2954)	21.10 (745.14)
5	1	Counterjib		6.18 (20' 3")	2.50 (8' 2")	1.09 (3' 7")	5800 (12786)	16.84 (594.70)
6	1	Machinery platform Ew 12110 FU (with 2nd brake)		1.82 (6')	2.23 (7' 4")	2.60 (8' 6")	4700 (10361)	10.55 (372.57)
7	1	Machinery Platform Hw 40132 FU (with 1000 m (3281') hoisting rope = 5000 kg (11023 lb) and 2nd brake)		4.85 (15' 11")	2.60 (8' 6")	2.45 (8')	17500 (38579)	30.89 (1090.88)
8	1	Jib element 1		11.88 (39')	2.53 (8' 4")	2.25 (7' 5")	4100 (9038)	67.63 (2388.35)
9	1	Jib element 2		10.60 (34' 9")	1.98 (6' 6")	2.20 (7' 3")	3000 (6614)	46.17 (1630.49)
10	1	Jib element 3		5.43 (17' 10")	1.98 (6' 6")	2.20 (7' 3")	1600 (3527)	23.65 (835.20)
11	1	Jib element 4		5.43 (17' 10")	1.98 (6' 6")	2.20 (7' 3")	1400 (3086)	23.65 (835.20)
12	1	Jib element 5		10.60 (34' 9")	1.98 (6' 6")	2.20 (7' 3")	2400 (5291)	46.17 (1630.49)
13	2	Jib element 6		10.60 (34' 9")	1.98 (6' 6")	2.20 (7' 3")	2100 (4629)	46.17 (1630.49)
14	1	Jib element 7		10.75 (35' 3")	1.98 (6' 6")	2.23 (7' 4")	3500 (7716)	47.47 (1676.40)
15	1	Auxiliary crane		3.37 (11' 1")	0.40 (1' 4")	3.43 (11' 3")	300 (661)	4.62 (163.16)
16	1	Braces (jib)		10.53 (34' 7")	0.60 (2')	0.19 (7")	2200 (4850)	1.20 (42.38)
17	1	1-fall		1.08 (3' 7")	0.34 (1' 1")	1.99 (6' 6")	600 (1323)	0.73 (25.78)
		2-fall		1.20 (3' 11")	0.40 (1' 4")	1.99 (6' 6")	1000 (2205)	0.96 (33.90)
		3-fall		1.20 (3' 11")	0.50 (1' 8")	1.99 (6' 6")	1500 (3307)	1.20 (42.38)
18	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)
19	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)
20	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)
21	3	Support pulleys for auxiliary hoist rope		1.77 (5' 10")	1.56 (5' 1")	1.22 (4' 0")	260 (573)	3.37 (119.01)



Der Leitwolf.  
The leader of the pack.



Dimensions colli list

WOLFFKRAN GmbH  
Austraße 72  
D-74076 Heilbronn  
Tel. +49 7131 9815-0  
Fax +49 7131 9815-355  
info@wolffkran.de  
www.wolffkran.de

# WOLFF 700 B US

## Main Components

30 m (98') basic jib, extensions up to 70 m (230') in 5 m (16') steps, tower top with ascent, slewing frame with cabin, two slewing gears, ball race bearing with central lubrication unit and slip ring system. Counter-jib with hoist and luffing winch, switch cabinet and counterweights.

## Drive Technique

All drives with frequency controlled squirrel cage motors, and thermal motor protection. Hoisting winch Hw 40132 FU (177 hp). Two slewing gears with electrically operated weathervaning device. Automatic wind-force compensation controls. Luffing winch Ew 12110 FU (147 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

With electronic overload protection system. Increase of load moment limitation due to automatic hoist speed reduction. Menu guided setting of overload protection system and all limiters from operator's 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 23.

## Crane Basis

On foundation anchors. Alternatively on WOLFF cross frame of the KR series. Travelling installations on WOLFF travelling cross frame of the KRF series with gauge of 8.0 m (26').

## Operating Speeds Hw 40132 FU

								
Motor [kw] (hp)	132 (177)	132 (177)	132 (177)	110 (147)	2 x 7.5 (2 x 10)	8 x 5.5 (8 x 7.4)	75 (100)	
Speed	0 - 2.9 t (0 - 6390 lb) 0 ... 190 m/min (0 ... 623 ft/min) stepless 0 - 20,0 t (0 - 44090 lb) 0 ... 33 m/min (0 ... 108 ft/min)	0 - 6.2 t (0 - 13670) 0 ... 95 m/min (0 ... 312 ft/min) stepless 0 - 40,0 t (0 - 88180 lb) 0 ... 17 m/min (0 ... 56 ft/min)	0 - 9.3 t (0 - 20500) 0 ... 63 m/min (0 ... 207 ft/min) stepless 0 - 50,0 t (0 - 110230 lb) 0 ... 13 m/min (0 ... 43 ft/min)	2.5 - 3.5 min	0.7 min <sup>-1</sup>	30 m/min (98 ft/min)		0 - 2.1 t (0 - 4630) 0 ... 140 m/min (0 ... 459 ft/min) stepless 0 - 8.0 t (0 - 17640 lb) 0 ... 46 m/min (0 ... 151 ft/min)
Hook path [m] (ft)	990 (3248)	495 (1624)	330 (1083)				600 (1969)	

## WOLFF 700 B US · Load Data BOOST · without mounted fly-jib

Jib radius [m] (ft)	[m] (ft)	20 (65' 7")	25 (82)	30 (98' 5")	35 (114' 10")	40 (131' 3")	45 (147' 8")	50 (164' 1")	55 (180' 5")	60 (196' 10")	65 (213' 3")	70 (229' 8")		
Jib length (m) (ft)	70 (230)	7.3 - 30.3 (23' 11" - 99' 3")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	16.6 (36700)	14.0 (30800)	11.9 (26210)	10.2 (22540)	8.9 (19540)	7.7 (17030)	6.8 (14920)	5.9 (13090)
	65 (213)	6.8 - 34.1 (22' 4" - 111' 10")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	19.4 (42670)	16.4 (36100)	14.1 (31000)	12.2 (26920)	10.7 (23570)	9.4 (20790)	8.4 (18430)	
	60 (197)	6.2 - 36.9 (20' 4" - 121' 1")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	18.2 (40110)	15.8 (34830)	13.9 (30590)	12.3 (27140)	11.0 (24260)		
	55 (180)	5.7 - 38.8 (18' 8" - 127' 3")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	19.4 (42660)	17.0 (37530)	15.2 (33430)	13.6 (30070)			
	50 (164)	5.1 - 41.3 (16' 9" - 135' 4")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	18.3 (40410)	16.5 (36380)				
	45 (148)	4.6 - 43.7 (15' 1" - 143' 5")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	19.5 (42920)					
	40 (131)	4.1 - 40.0 (13' 5" - 131' 3")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	19.5 (42920)				
	35 (115)	3.5 - 35.0 (11' 6" - 114' 10")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)				
30 (98')	3.0 - 30.0 (9' 10" - 98' 5")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)					
Jib length (m) (ft)	70 (230)	7.3 - 20.6 (23' 11" - 67' 7")	[t] (lb)	30.0 (66140)	23.8 (52380)	18.9 (41640)	15.4 (33950)	12.8 (28190)	10.8 (23720)	9.1 (20130)	7.8 (17190)	6.7 (14750)	5.8 (12680)	5.0 (10910)
	65 (213)	6.8 - 20.1 (22' 4" - 66' 0")	[t] (lb)	35.0 (77160)	27.2 (59940)	21.8 (48180)	18.0 (39660)	15.1 (33310)	12.9 (28380)	11.1 (24440)	9.6 (21210)	8.4 (18520)	7.4 (16250)	
	60 (197)	6.2 - 19.1 (20' 4" - 62' 8")	[t] (lb)	38.0 (83780)	29.6 (65260)	24.0 (52920)	20.0 (44110)	17.0 (37500)	14.7 (32350)	12.8 (28240)	11.3 (24870)	10.0 (22070)		
	55 (180)	5.7 - 19.7 (18' 8" - 64' 7")	[t] (lb)	39.3 (86720)	31.0 (68230)	25.4 (55900)	21.4 (47100)	18.4 (40500)	16.0 (35370)	14.2 (31250)	12.7 (27890)			
	50 (164)	5.1 - 20.3 (16' 9" - 66' 7")	[t] (lb)	40.0 (88180)	32.2 (71080)	26.7 (58780)	22.7 (50010)	19.7 (43420)	17.4 (38290)	15.5 (34190)				
	45 (148)	4.6 - 20.9 (15' 1" - 68' 7")	[t] (lb)	40.0 (88180)	33.4 (73630)	27.8 (61300)	23.8 (52490)	20.8 (45880)	18.5 (40740)					
	40 (131)	4.1 - 21.5 (13' 5" - 70' 5")	[t] (lb)	40.0 (88180)	34.4 (75870)	28.8 (63380)	24.7 (54460)	21.7 (47770)						
	35 (115)	3.5 - 22.0 (11' 6" - 72' 1")	[t] (lb)	40.0 (88180)	35.1 (77310)	29.1 (64190)	24.9 (54800)							
30 (98')	3.0 - 22.0 (9' 10" - 72' 1")	[t] (lb)	40.0 (88180)	35.1 (77360)	29.2 (64260)									
Jib length (m) (ft)	55 (180)	5.7 - 15.5 (18' 8" - 50' 11")	[t] (lb)	38.0 (83810)	29.7 (65470)	24.2 (53240)	20.2 (44520)	17.2 (37960)	14.9 (32870)	13.1 (28800)	11.6 (25470)			
	50 (164)	5.1 - 15.9 (16' 9" - 52' 2")	[t] (lb)	39.3 (86590)	31.0 (68320)	25.5 (56130)	21.5 (47430)	18.6 (40910)	16.3 (35830)	14.4 (31770)				
	45 (148)	4.6 - 16.2 (15' 1" - 53' 4")	[t] (lb)	40.4 (89120)	32.1 (70830)	26.6 (58640)	22.7 (49930)	19.7 (43400)	17.4 (38310)					
	40 (131)	4.1 - 16.7 (13' 5" - 54' 10")	[t] (lb)	41.7 (91870)	33.2 (73260)	27.6 (60850)	23.6 (52000)	20.6 (45350)						
	35 (115)	3.5 - 17.1 (11' 6" - 56' 2")	[t] (lb)	42.6 (93920)	33.8 (74540)	28.0 (61610)	23.8 (52380)							
	30 (98')	3.0 - 17.1 (9' 10" - 56' 2")	[t] (lb)	42.7 (94020)	33.9 (74710)	28.1 (61840)								

## WOLFF 700 B US · Load Data BOOST · with mounted fly-jib

Jib radius [m] (ft)	[m] (ft)	20 (65' 7")	25 (82)	30 (98' 5")	35 (114' 10")	40 (131' 3")	45 (147' 8")	50 (164' 1")	55 (180' 5")	60 (196' 10")	65 (213' 3")	70 (229' 8")		
Jib length (m) (ft)	70 (230)	7.3 - 27.9 (23' 11" - 91' 5")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (39930)	18.1 (39930)	14.6 (32190)	12.0 (26390)	9.9 (21870)	8.3 (18260)	6.9 (15300)	5.8 (12840)	4.1 (8980)
	65 (213)	6.8 - 30.9 (22' 4" - 101' 6")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	17.0 (37480)	14.2 (31210)	11.9 (26320)	10.2 (22420)	8.7 (19230)	7.5 (16570)	6.5 (14310)	
	60 (197)	6.2 - 33.7 (20' 4" - 110' 6")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	19.1 (42030)	16.1 (35390)	13.7 (30220)	11.8 (26080)	10.3 (22700)	9.0 (19890)		
	55 (180)	5.7 - 35.5 (18' 8" - 116' 5")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	17.4 (38240)	15.0 (33130)	13.2 (29050)	11.7 (25710)			
	50 (164)	5.1 - 37.6 (16' 9" - 123' 5")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	18.7 (41180)	16.4 (36090)	14.5 (32010)				
	45 (148)	4.6 - 39.4 (15' 1" - 129' 4")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	19.7 (43410)	17.4 (38310)					
	40 (131)	4.1 - 40.0 (13' 5" - 131' 3")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)					
	35 (115)	3.5 - 35.0 (11' 6" - 114' 10")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)					
30 (98')	3.0 - 30.0 (9' 10" - 98' 5")	[t] (lb)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)	20.0 (44090)						
Jib length (m) (ft)	70 (230)	7.3 - 20.5 (23' 11" - 67' 3")	[t] (lb)	28.5 (62830)	22.0 (48590)	17.1 (37750)	13.6 (30010)	11.0 (24200)	8.9 (19690)	7.3 (16080)	6.0 (13120)	4.8 (10660)	3.9 (8580)	3.1 (6790)
	65 (213)	6.8 - 20.0 (22' 4" - 65' 9")	[t] (lb)	33.0 (72750)	25.1 (55350)	19.8 (43640)	16.0 (35280)	13.2 (29010)	11.0 (24130)	9.2 (20230)	7.7 (17040)	6.5 (14380)	5.5 (12120)	
	60 (197)	6.2 - 18.4 (20' 4" - 60' 3")	[t] (lb)	36.2 (79890)	27.8 (61240)	22.1 (48800)	18.1 (39910)	15.1 (33250)	12.7 (28070)	10.9 (23930)	9.3 (20530)	8.0 (17700)		
	55 (180)	5.7 - 18.7 (18' 8" - 61' 6")	[t] (lb)	37.2 (82040)	28.9 (63650)	23.3 (51380)	19.3 (42630)	16.4 (36060)	14.0 (30950)	12.2 (26860)	10.7 (23520)			
	50 (164)	5.1 - 19.3 (16' 9" - 63' 5")	[t] (lb)	38.6 (85040)	30.2 (66640)	24.7 (54370)	20.7 (45610)	17.7 (39030)	15.4 (33910)	13.5 (29830)				
	45 (148)	4.6 - 19.7 (15' 1" - 64' 8")	[t] (lb)	39.4 (86860)	31.1 (68600)	25.6 (56420)	21.7 (47730)	18.7 (41210)	16.4 (36140)					
	40 (131)	4.1 - 20.4 (13' 5" - 66' 11")	[t] (lb)	40.0 (88180)	32.3 (71240)	26.7 (58760)	22.6 (49850)	19.6 (43160)						
	35 (115)	3.5 - 20.7 (11' 6" - 67' 10")	[t] (lb)	40.0 (88180)	32.7 (72050)	26.8 (59160)	22.7 (49950)							
30 (98')	3.0 - 20.7 (9' 10" - 67' 10")	[t] (lb)	40.0 (88180)	32.7 (72050)	26.8 (59170)									
Jib length (m) (ft)	55 (180)	5.7 - 15.0 (18' 8" - 49' 4")	[t] (lb)	36.2 (79810)	27.8 (61360)	22.3 (49050)	18.3 (40270)	15.3 (33680)	13.0 (28560)	11.1 (24450)	9.6 (21100)			
	50 (164)	5.1 - 15.4 (16' 9" - 50' 6")	[t] (lb)	37.5 (82700)	29.2 (64260)	23.6 (51980)	19.6 (43200)	16.6 (36620)	14.3 (31500)	12.4 (27400)				
	45 (148)	4.6 - 15.6 (15' 1" - 51' 4")	[t] (lb)	38.4 (84680)	30.1 (66330)	24.5 (54100)	20.6 (45360)	17.6 (38810)	15.3 (33700)					
	40 (131)	4.1 - 16.1 (13' 5" - 52' 10")	[t] (lb)	39.7 (87520)	31.2 (68810)	25.6 (56330)	21.5 (47420)	18.5 (40740)						
	35 (115)	3.5 - 16.4 (11' 6" - 53' 10")	[t] (lb)	40.4 (89000)	31.6 (69650)	25.7 (56750)	21.6 (47530)							
	30 (98')	3.0 - 16.4 (9' 10" - 53' 10")	[t] (lb)	40.4 (89000)	31.6 (69650)	25.7 (56750)								

## 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.