

WOLFF 8033.20 cross US

Load moment: **max. 4900 kNm**

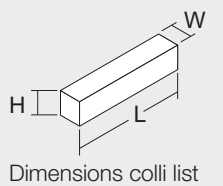
Lifting capacity: **max. 20.0 t (44090 lb)**

Jib radius: **max. 80.0 m (263')**

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 WOLFFBoost.

WOLFF 8033.20 cross 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 complete		11.55 (37' 11")	2.30 (7' 7")	2.50 (8' 2")	15000 (33069)	66.41 (2345.25)
		Tower top upper part Item 1 disassembled		11.75 (38' 7")	2.32 (7' 7")	2.80 (9' 2")	16300 (35935)	76.34 (2695.92)
		Tower top lower part Item 1 disassembled		7.39 (24' 3")	2.49 (8' 2")	1.66 (5' 5")	2925 (6448)	30.55 (1078.86)
				5.60 (18' 4")	2.30 (7' 7")	2.50 (8' 2")	12075 (26621)	32.20 (1137.13)
2	1	Driver's cabin with suspension		4.82 (15' 10")	2.19 (7' 2")	2.55 (8' 4")	3030 (6680)	26.92 (950.67)
				5.80 (19' 0")	2.32 (7' 7")	2.80 (9' 2")	13370 (29476)	37.68 (1330.66)
3	1	Counterjib folded		11.98 (39' 4")	2.30 (7' 7")	1.31 (4' 4")	7140 (15741)	36.10 (1274.86)
4	1	Hw 2075 FU Machinery platform		2.58 (8' 6")	2.31 (7' 7")	1.70 (5' 7")	4930 (10869)	10.13 (357.74)
		Hw 20110 FU Machinery platform		2.58 (8' 6")	2.31 (7' 7")	1.70 (5' 7")	4880 (10758)	10.13 (357.74)
5	1	Jib element 1		10.19 (33' 5")	1.64 (5' 5")	2.29 (7' 6")	3400 (7496)	38.54 (1361.03)
6	1	Jib element 2		10.19 (33' 5")	1.64 (5' 5")	2.08 (6' 10")	2460 (5423)	34.76 (1227.54)
7	1	Jib element 3		10.23 (33' 7")	1.64 (5' 5")	2.08 (6' 10")	2320 (5115)	34.90 (1232.48)
8	1	Jib element 4		10.30 (33' 10")	1.64 (5' 5")	2.07 (6' 9")	2300 (5071)	34.97 (1234.96)
9	1	Jib element 5		5.33 (17' 6")	1.64 (5' 5")	2.03 (6' 8")	1135 (2502)	17.74 (626.48)
10	1	Jib element 6		2.83 (9' 3")	1.64 (5' 5")	2.03 (6' 8")	695 (1532)	9.42 (332.66)
11	1	Jib element 7		10.28 (33' 9")	1.64 (5' 5")	2.03 (6' 8")	1815 (4001)	34.22 (1208.47)
12	1	Jib element 8		10.22 (33' 6")	1.64 (5' 5")	2.02 (6' 8")	1290 (2844)	33.86 (1195.76)
13	1	Jib element 9		5.20 (17' 1")	1.64 (5' 5")	2.01 (6' 7")	660 (1455)	17.14 (605.29)
14	1	Jib element 10		10.19 (33' 5")	1.64 (5' 5")	2.01 (6' 7")	1040 (2293)	33.59 (1186.22)
15	1	Rope swivel traverse		1.38 (4' 6")	1.54 (5' 1")	0.50 (1' 8")	245 (540)	1.06 (37.43)
16	1	Trolley LK 20		2.00 (6' 7")	1.88 (6' 2")	1.33 (4' 4")	600 (1323)	5.00 (176.57)
17	1	Unterflasche U 20		0.72 (2' 4")	0.29 (0' 11")	1.84 (6' 0")	750 (1653)	0.38 (13.42)
18	1	Service cage		0.75 (2' 6")	0.55 (1' 10")	1.69 (5' 7")	55 (121)	0.70 (24.72)



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WOLFF 8033.20 cross US

Main Components

30 m (98') basic jib with trolley gear. Extensions up to 80 m (263') radius in 2.5 m (8') steps. Slewing frame with driver's cabin, control cabinet, two slewing gears, ball race bearing with central lubrication unit and slipping system. Counterjib with hoisting platform and counterweights.

Drive Technique

All drives frequency controlled squirrel cage motors, fully thermal protected. Hoisting winches Hw 2075 FU or Hw 20110 FU. Two slewing gears with electrically operated weathervaning device. Automatic windforce compensation controls. Trolley gear.

Electrical Equipment

Multivoltage equipment for supplies of 480 V Y / 277 V 60 Hz. Electronic safety crane controls with bus technology. Incremental absolute encoders for all operating movements. Electronic load measuring device at basic jib section. Multilingual graphic display showing information to operator, both operational and diagnostics.

Safety Devices

Crane is complete with electronic overload protection system. Increased load moment limitation due to automatic hoist speed reduction. Menu guided setting of overload protection system and of all limiters from operators cabin. Working space limiter, anti-collision interface. Trolley rope breakage safety device.

In series with

Teleservice module and wind indicator.

Tower Elements, Climbing Device

Tower configuration of WOLFF system tower elements. WOLFF slug bolt connection. Detachable hydraulic WOLFF system climbing devices KWH 20.6 and KWH 23. WOLFF system inner climbing devices KSH 20 and KSH (E) 23.

Cross Frame KR, Mobile Cross Frame KRF

WOLFF cross frames KR can be used with gauge from 6.0 m up to 10.0 m (20' - 33'). WOLFF cross frames can be modified to KRF.

Power Requirements and hook paths (Slewing part)

98 kVA (Hw 2075 FU). 125 kVA (Hw 20110 FU). Hook path – see table of mechanisms.

Mechanisms · WOLFF 8033.20 cross US · (Hw 2075 FU)

Motor [kW] (hp)	75 (100)	9.0 (12)	2 x 7.5 (2 x 10)	4 x 5.5 (4 x 7.4)
Speed	0 - 2.1 t (0 - 4630 lb) 0 ... 132 m/min (0 ... 433 ft/min) stepless 0 - 20.0 t (0 - 44090 lb) (0 ... 19 m/min) (0 ... 62 ft/min)	0 - 3.3 t (0 - 7280 lb) 0 ... 100 m/min (0 ... 328 ft/min) stepless 0 - 20.0 t (0 - 44090 lb) (0 ... 32 m/min) (0 ... 105 ft/min)	0.80 min ⁻¹	30.0 m/min (98 ft/min)
Hook path [m] (ft)	400 (1312)			

Mechanisms · WOLFF 8033.20 cross US · (Hw 20110 FU)

Motor [kW] (hp)	110 (147)	9.0 (12)	2 x 7.5 (2 x 10)	4 x 5.5 (4 x 7.4)
Speed	0 - 2.2 t (0 - 4850 lb) 0 ... 190 m/min (0 ... 623 ft/min) stepless 0 - 20.0 t (0 - 44090 lb) (0 ... 28 m/min) (0 ... 92 ft/min)	0 - 3.3 t (0 - 7280 lb) 0 ... 100 m/min (0 ... 328 ft/min) stepless 0 - 20.0 t (0 - 44090 lb) (0 ... 32 m/min) (0 ... 105 ft/min)	0.80 min ⁻¹	30.0 m/min (98 ft/min)
Hook path [m] (ft)	400 (1312)			

Load Data [t] (lb) · WOLFF 8033.20 cross US · BOOST

Jib radius [m] (ft)		30.0 (98' 5")	35.0 (114' 10")	40.0 (131' 3")	45.0 (147' 8")	50.0 (164' 1")	55.0 (180' 5")	60.0 (196' 10")	65.0 (213' 3")	70.0 (229' 8")	75.0 (246' 1")	80.0 (262' 6")
80.0 (263')	2.8 - 17.3 (9' 2" - 56' 8")	[t] (lb) 10.7 (23640)	8.9 (19680)	7.6 (16710)	6.5 (14400)	5.7 (12550)	5.0 (11030)	4.4 (9770)	4.0 (8700)	3.5 (7790)	3.2 (7000)	2.9 (6300)
77.5 (254')	2.8 - 19.1 (9' 2" - 62' 7")	[t] (lb) 12.0 (26530)	10.1 (22170)	8.6 (18880)	7.4 (16320)	6.5 (14280)	5.7 (12610)	5.1 (11220)	4.6 (10040)	4.1 (9030)	3.7 (8150)	
75.0 (246')	2.8 - 20.7 (9' 2" - 68' 0")	[t] (lb) 13.2 (29180)	11.1 (24430)	9.5 (20870)	8.2 (18100)	7.2 (15870)	6.4 (14060)	5.7 (12540)	5.1 (11260)	4.6 (10160)	4.2 (9220)	
72.5 (238')	2.8 - 21.9 (9' 2" - 71' 8")	[t] (lb) 14.1 (31010)	11.8 (25990)	10.1 (22230)	8.8 (19310)	7.7 (16960)	6.8 (15050)	6.1 (13450)	5.5 (12100)	5.0 (10950)		
70.0 (230')	2.8 - 22.9 (9' 2" - 75' 0")	[t] (lb) 14.8 (32630)	12.4 (27380)	10.6 (23440)	9.3 (20380)	8.1 (17940)	7.2 (15930)	6.5 (14270)	5.8 (12850)	5.3 (11640)		
67.5 (221')	2.8 - 23.7 (9' 2" - 77' 11")	[t] (lb) 15.4 (34050)	13.0 (28590)	11.1 (24510)	9.7 (21330)	8.5 (18790)	7.6 (16710)	6.8 (14970)	6.1 (13510)			
65.0 (213')	2.8 - 24.5 (9' 2" - 80' 5")	[t] (lb) 16.0 (35260)	13.4 (29630)	11.5 (25420)	10.0 (22140)	8.9 (19510)	7.9 (17370)	7.1 (15580)	6.4 (14070)			
62.5 (205')	2.8 - 25.1 (9' 2" - 82' 5")	[t] (lb) 16.5 (36270)	13.8 (30500)	11.9 (26180)	10.4 (22810)	9.1 (20120)	8.1 (17920)	7.3 (16080)				
60.0 (197')	2.8 - 25.6 (9' 2" - 84' 1")	[t] (lb) 16.8 (37080)	14.2 (31200)	12.2 (26790)	10.6 (23350)	9.4 (20600)	8.3 (18360)	7.5 (16490)				
57.5 (189')	2.8 - 26.0 (9' 2" - 85' 4")	[t] (lb) 17.1 (37690)	14.4 (31710)	12.4 (27240)	10.8 (23760)	9.5 (20980)	8.5 (18690)					
55.0 (180')	2.8 - 26.3 (9' 2" - 86' 2")	[t] (lb) 17.3 (38090)	14.5 (32070)	12.5 (27540)	10.9 (24020)	9.6 (21220)	8.6 (18920)					
52.5 (172')	2.8 - 26.4 (9' 2" - 86' 7")	[t] (lb) 17.4 (38300)	14.6 (32240)	12.6 (27700)	11.0 (24170)	9.7 (21340)						
50.0 (164')	2.8 - 26.4 (9' 2" - 86' 7")	[t] (lb) 17.4 (38300)	14.6 (32240)	12.6 (27700)	11.0 (24170)	9.7 (21340)						
47.5 (156')	2.8 - 26.5 (9' 2" - 87' 0")	[t] (lb) 17.5 (38480)	14.7 (32400)	12.6 (27840)	11.0 (24290)							
45.0 (148')	2.8 - 26.5 (9' 2" - 86' 10")	[t] (lb) 17.4 (38420)	14.7 (32350)	12.6 (27800)	11.0 (24260)							
42.5 (139')	2.8 - 26.5 (9' 2" - 86' 11")	[t] (lb) 17.5 (38470)	14.7 (32380)	12.6 (27830)								
40.0 (131')	2.8 - 26.6 (9' 2" - 87' 1")	[t] (lb) 17.5 (38560)	14.7 (32460)	12.7 (27890)								
37.5 (123')	2.8 - 26.6 (9' 2" - 87' 3")	[t] (lb) 17.5 (38610)	14.8 (32520)									
35.0 (115')	2.8 - 26.6 (9' 2" - 87' 2")	[t] (lb) 17.5 (38600)	14.7 (32490)									
32.5 (107')	2.8 - 26.6 (9' 2" - 87' 5")	[t] (lb) 17.6 (38700)										
30.0 (98')	2.8 - 26.7 (9' 2" - 87' 7")	[t] (lb) 17.6 (38800)										

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 trolley gear must only be moved alternately.



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