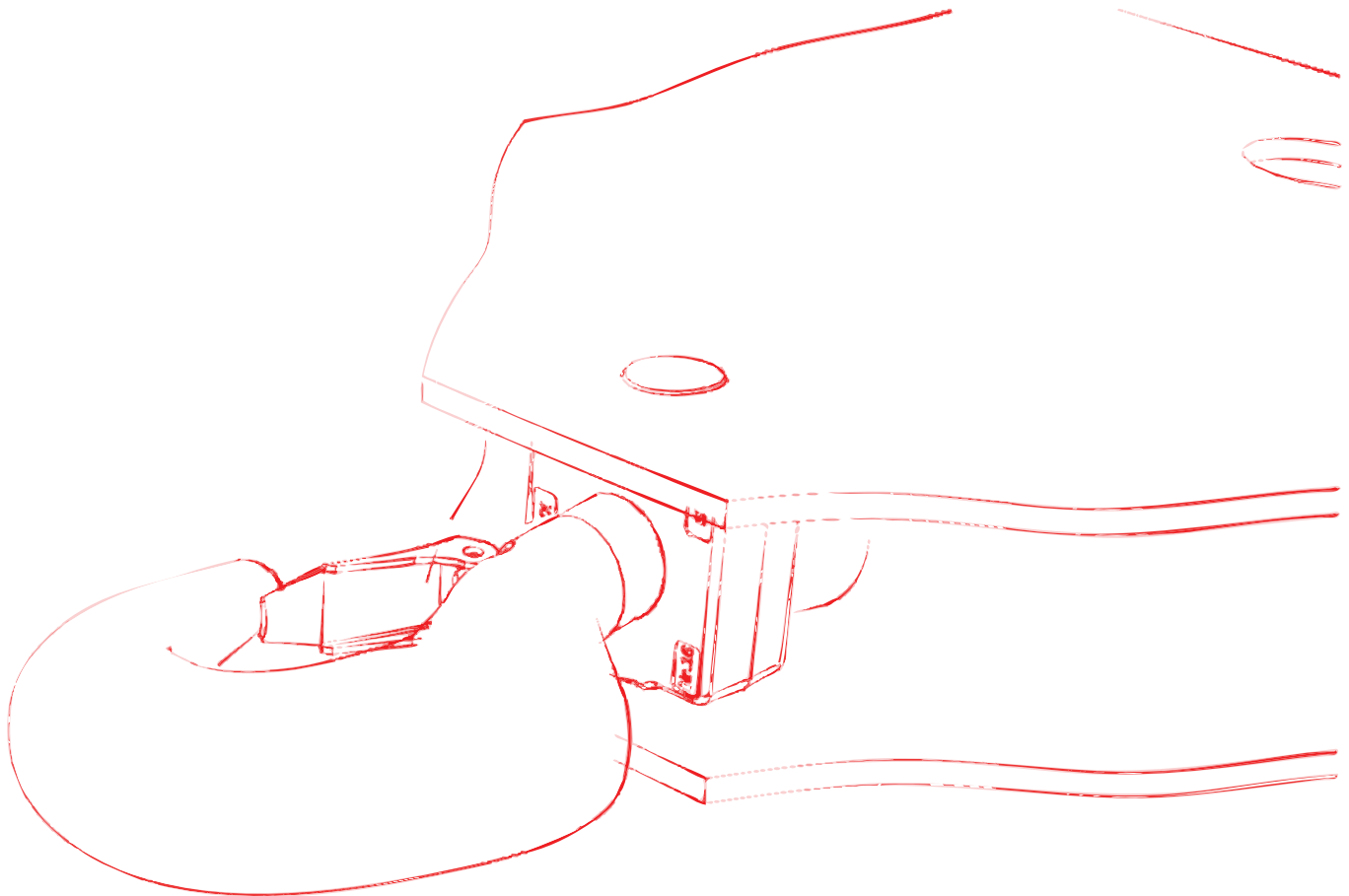


Slewing tower crane

WOLFF 7032.12 clear

Technical information



English

English



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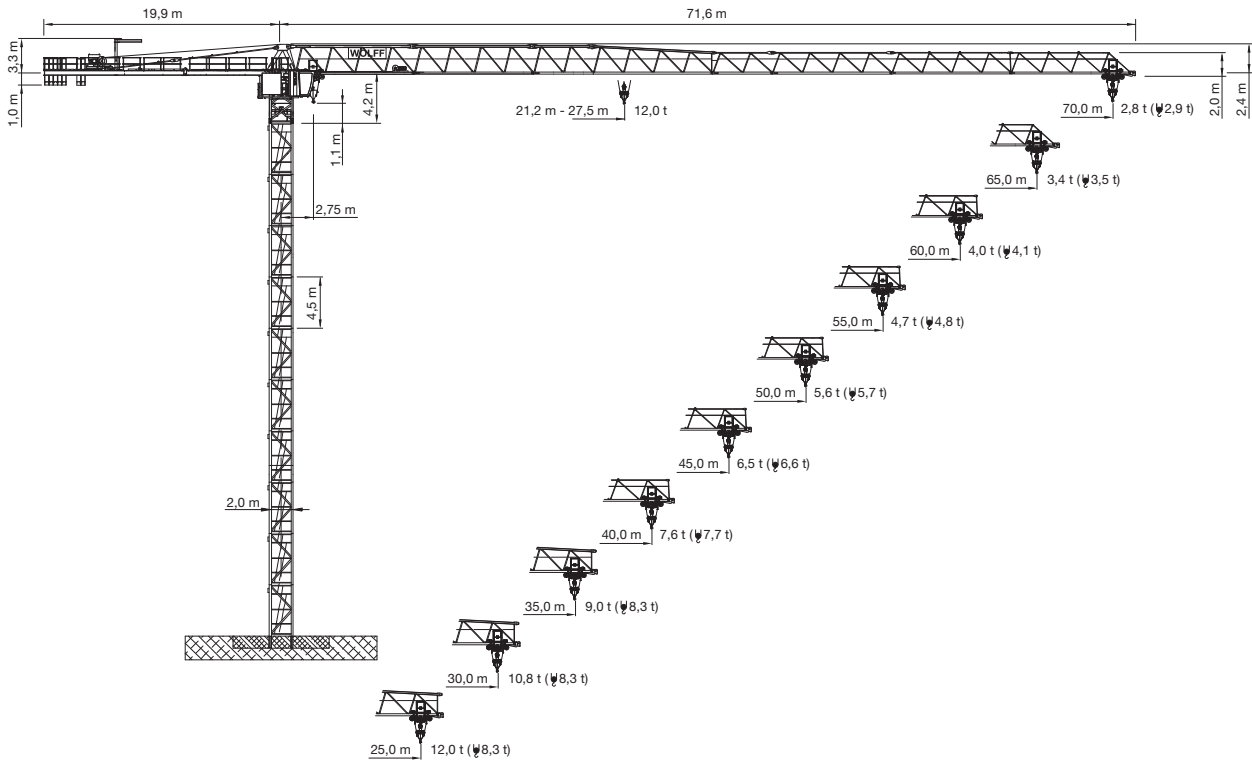
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1 Schedule drawing

1.1 Schedule drawing WOLFF 7032.12clear




Data WOLFF 7032.12


Item	Data
Crane type	BGL GROUP C.0.10.0250
Design	Overhead travelling crane with top slewing trolley jib, with climbing feature
Type of setup	Stationary or travelling
Basis of calculation	EN 14439 (C25)
Payload torque	max. 3300 kNm
Hoist winch	Hw 845 FU / Hw 875 FU

2 Load carrying capacities

2 Load carrying capacities

	NOTICE
<p>WOLFF-Boost</p> <p>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 drive (trolley crane) respectively hoisting gear and derricking gear (luffing crane) must only be moved alternately.</p>	

2.1 Table of load carrying capacity WOLFF 7032.12 (8.3 t, 2 fall operation)

 8.3 t		Operating radius [m]	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0		
			[t]																				
JL [m]	70.0	2.75 - 29.8	8.3	8.3	8.2	7.5	6.9	6.4	5.9	5.5	5.1	4.8	4.5	4.2	4.0	3.8	3.6	3.4	3.2	3.0	2.9	LCC	
	67.5	2.75 - 30.9	8.3	8.3	8.3	7.8	7.2	6.6	6.2	5.7	5.4	5.0	4.7	4.4	4.2	3.9	3.7	3.5	3.4	3.2			
	65.0	2.75 - 31.8	8.3	8.3	8.3	8.1	7.4	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.3	4.1	3.9	3.7	3.5	3.4	3.2		
	62.5	2.75 - 32.6	8.3	8.3	8.3	8.3	7.7	7.1	6.6	6.1	5.7	5.3	5.0	4.7	4.5	4.2	4.0	3.8					
	60.0	2.75 - 33.2	8.3	8.3	8.3	8.3	7.8	7.2	6.7	6.2	5.8	5.5	5.1	4.8	4.6	4.3	4.1						
	57.5	2.75 - 34.0	8.3	8.3	8.3	8.3	8.0	7.4	6.9	6.4	6.0	5.6	5.3	5.0	4.7	4.5							
	55.0	2.75 - 34.5	8.3	8.3	8.3	8.3	8.2	7.6	7.0	6.5	6.1	5.7	5.4	5.1	4.8								
	52.5	2.75 - 35.2	8.3	8.3	8.3	8.3	8.3	7.7	7.2	6.7	6.3	5.9	5.5	5.2									
	50.0	2.75 - 36.2	8.3	8.3	8.3	8.3	8.3	8.0	7.4	6.9	6.5	6.1	5.7										
	47.5	2.75 - 36.9	8.3	8.3	8.3	8.3	8.3	8.1	7.6	7.1	6.6	6.2											
	45.0	2.75 - 36.9	8.3	8.3	8.3	8.3	8.3	8.1	7.6	7.1	6.6												
	42.5	2.75 - 37.1	8.3	8.3	8.3	8.3	8.3	8.2	7.6	7.1													
	40.0	2.75 - 37.5	8.3	8.3	8.3	8.3	8.3	8.3	7.7														
	37.5	2.75 - 37.5	8.3	8.3	8.3	8.3	8.3	8.3															
	35.0	2.75 - 35.0	8.3	8.3	8.3	8.3	8.3																
	32.5	2.75 - 32.5	8.3	8.3	8.3	8.3																	
	30.0	2.75 - 30.0	8.3	8.3	8.3																		
27.5	2.75 - 27.5	8.3	8.3																				
25.0	2.75 - 25.0	8.3																					

Caption	
JL	Jib length
LCC	Load carrying capacity


The load carrying capacity is related to a hook range of 42.0 m. With greater tower heights or hook paths, the permissible load-carrying capacity is reduced by the extra weight of the additional hoisting rope.

2 Load carrying capacities

2.2 Table of load carrying capacities (kg) in meter intervals, WOLFF 7032.12 (8.3 t, 2 fall operation)

Operating radius [m]	Jib length [m]																		
	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0
25.0	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
26.0		8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
27.0		8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
27.5		8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
28.0			8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
29.0			8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
30.0			8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300
31.0				8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8260	7930
32.0				8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8240	7970
32.5				8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8100	7830
33.0					8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8300	8180	7960	7700	7380
34.0					8300	8300	8300	8300	8300	8300	8300	8300	8300	8290	8080	7910	7690	7440	7140
35.0					8300	8300	8300	8300	8300	8300	8300	8300	8170	8020	7810	7650	7440	7190	6900
36.0						8300	8300	8300	8300	8300	8090	7910	7760	7570	7410	7210	6960	6680	6680
37.0						8300	8300	8300	8260	8270	8090	7840	7670	7530	7330	7180	6980	6740	6470
37.5						8300	8290	8190	8140	8150	7970	7720	7550	7410	7220	7070	6870	6640	6370
38.0							8160	8070	8020	8030	7850	7600	7440	7300	7110	6960	6770	6540	6270
39.0							7930	7840	7780	7790	7620	7380	7220	7080	6900	6750	6570	6340	6080
40.0							7700	7610	7560	7570	7400	7170	7010	6880	6700	6560	6380	6160	5900
41.0								7400	7350	7360	7190	6970	6810	6680	6510	6370	6190	5980	5730
42.0								7200	7150	7160	7000	6780	6630	6500	6330	6190	6020	5810	5570
42.5								7100	7050	7060	6900	6680	6540	6410	6240	6110	5940	5730	5490
43.0								6960	6960	6810	6590	6450	6320	6160	6020	5850	5650	5410	5140
44.0									6780	6780	6630	6420	6280	6150	5990	5860	5700	5500	5260
45.0									6600	6610	6460	6250	6110	5990	5830	5710	5540	5350	5120
46.0										6440	6290	6090	5950	5840	5680	5560	5400	5210	4990
47.0										6280	6130	5940	5800	5690	5540	5420	5260	5080	4860
47.5										6200	6060	5860	5730	5620	5470	5350	5190	5010	4790
48.0											5980	5790	5660	5550	5400	5280	5130	4950	4730
49.0											5840	5650	5520	5410	5270	5150	5000	4820	4610
50.0											5700	5520	5390	5280	5140	5030	4880	4710	4500
51.0												5390	5260	5160	5020	4900	4760	4590	4390
52.0												5260	5140	5040	4900	4790	4650	4480	4280
52.5												5200	5080	4980	4840	4730	4600	4430	4230
53.0													5020	4920	4790	4680	4540	4380	4180
54.0													4910	4810	4680	4570	4440	4280	4090
55.0													4800	4700	4570	4470	4340	4180	3990
56.0														4600	4470	4370	4240	4080	3900
57.0														4500	4370	4270	4150	3990	3810
57.5														4450	4330	4230	4100	3950	3770
58.0															4280	4180	4060	3900	3730
59.0															4190	4090	3970	3820	3650
60.0															4100	4000	3880	3740	3570
61.0																3920	3800	3660	3490
62.0																3840	3720	3580	3420
62.5																3800	3680	3540	3380
63.0																	3650	3510	3340
64.0																	3570	3440	3280
65.0																	3500	3370	3210
66.0																		3300	3140
67.0																		3230	3080
67.5																		3200	3050
68.0																			3020
69.0																			2960
70.0																			2900

2.3 Table of load carrying capacity WOLFF 7032.12 (12.0 t, 4 fall operation)

 12.0 t		Operating radius [m]	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0	LCC
			[m]																			
JL	70.0	2.75 - 21.2	10.0	9.0	8.1	7.4	6.8	6.3	5.8	5.4	5.0	4.7	4.4	4.1	3.9	3.7	3.5	3.3	3.1	2.9	2.8)
	67.5	2.75 - 22.0	10.4	9.4	8.5	7.7	7.1	6.5	6.1	5.6	5.3	4.9	4.6	4.3	4.1	3.8	3.6	3.4	3.3	3.1		
	65.0	2.75 - 22.7	10.8	9.7	8.8	8.0	7.3	6.8	6.3	5.8	5.4	5.1	4.8	4.5	4.2	4.0	3.8	3.6	3.4			
	62.5	2.75 - 23.2	11.1	9.9	9.0	8.2	7.6	7.0	6.5	6.0	5.6	5.2	4.9	4.6	4.4	4.1	3.9	3.7				
	60.0	2.75 - 23.6	11.3	10.1	9.2	8.4	7.7	7.1	6.6	6.1	5.7	5.4	5.0	4.7	4.5	4.2	4.0					
	57.5	2.75 - 24.2	11.6	10.4	9.4	8.6	7.9	7.3	6.8	6.3	5.9	5.5	5.2	4.9	4.6	4.4						
	55.0	2.75 - 24.6	11.8	10.6	9.6	8.8	8.1	7.5	6.9	6.4	6.0	5.6	5.3	5.0	4.7							
	52.5	2.75 - 25.1	12.0	10.8	9.8	9.0	8.3	7.6	7.1	6.6	6.2	5.8	5.4	5.1								
	50.0	2.75 - 25.8	12.0	11.2	10.1	9.3	8.5	7.9	7.3	6.8	6.4	6.0	5.6									
	47.5	2.75 - 26.3	12.0	11.4	10.4	9.5	8.7	8.0	7.5	7.0	6.5	6.1										
	45.0	2.75 - 26.3	12.0	11.4	10.4	9.5	8.7	8.0	7.5	7.0	6.5											
	42.5	2.75 - 26.4	12.0	11.5	10.4	9.5	8.8	8.1	7.5	7.0												
	40.0	2.75 - 26.7	12.0	11.6	10.5	9.6	8.9	8.2	7.6													
	37.5	2.75 - 26.7	12.0	11.6	10.6	9.6	8.9	8.2														
	35.0	2.75 - 27.1	12.0	11.8	10.7	9.8	9.0															
	32.5	2.75 - 27.1	12.0	11.8	10.7	9.8																
	30.0	2.75 - 27.3	12.0	11.9	10.8																	
	27.5	2.75 - 27.5	12.0	12.0																		
	25.0	2.75 - 25.0	12.0																			

Caption	
JL	Jib length
LCC	Load carrying capacity

The load carrying capacity is related to a hook range of 42.0 m. With greater tower heights or hook paths, the permissible load-carrying capacity is reduced by the extra weight of the additional hoisting rope.

2 Load carrying capacities

2.4 Table of load carrying capacities (kg) in meter intervals, WOLFF 7032.12 (12.0 t, 4 fall operation)

Jib length [m]	Jib length [m]																		
	25.0	27.5	30.0	32.5	35.0	37.5	40.0	42.5	45.0	47.5	50.0	52.5	55.0	57.5	60.0	62.5	65.0	67.5	70.0
25.0	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	12000	11780	11570	11280	11050	10760	10410	10000
26.0		12000	12000	12000	12000	12000	12000	12000	12000	11880	11520	11280	11070	10800	10580	10300	9960	9570	
27.0		12000	12000	12000	12000	11860	11840	11710	11630	11640	11390	11050	10820	10620	10360	10140	9870	9550	9170
27.5		12000	11890	11800	11780	11620	11600	11470	11400	11410	11160	10830	10600	10400	10150	9940	9670	9350	8980
28.0			11660	11570	11550	11390	11370	11250	11180	11180	10940	10610	10390	10200	9940	9740	9480	9170	8800
29.0			11210	11130	11110	10960	10940	10820	10750	10760	10520	10210	9990	9800	9560	9360	9110	8810	8460
30.0			10800	10720	10700	10550	10530	10420	10350	10360	10130	9830	9620	9440	9200	9010	8770	8480	8130
31.0				10330	10320	10170	10150	10040	9980	9990	9770	9470	9270	9090	8860	8680	8450	8160	7830
32.0				9970	9960	9820	9800	9690	9630	9640	9430	9140	8940	8770	8550	8370	8140	7870	7550
32.5				9800	9780	9650	9630	9520	9460	9470	9260	8980	8780	8620	8400	8220	8000	7730	7420
33.0					9620	9480	9470	9360	9300	9310	9100	8820	8630	8470	8250	8080	7860	7600	7280
34.0					9300	9170	9150	9050	8990	9000	8800	8530	8340	8190	7980	7810	7590	7340	7040
35.0					9000	8870	8860	8760	8700	8710	8510	8250	8070	7920	7710	7550	7340	7090	6800
36.0						8590	8580	8480	8430	8430	8240	7990	7810	7660	7470	7310	7110	6860	6580
37.0						8330	8310	8220	8160	8170	7990	7740	7570	7430	7230	7080	6880	6640	6370
37.5						8200	8190	8090	8040	8050	7870	7620	7450	7310	7120	6970	6770	6540	6270
38.0							8060	7970	7920	7930	7750	7500	7340	7200	7010	6860	6670	6440	6170
39.0							7830	7740	7680	7690	7520	7280	7120	6980	6800	6650	6470	6240	5980
40.0							7600	7510	7460	7470	7300	7070	6910	6780	6600	6460	6280	6060	5800
41.0								7300	7250	7260	7090	6870	6710	6580	6410	6270	6090	5880	5630
42.0								7100	7050	7060	6900	6680	6530	6400	6230	6090	5920	5710	5470
42.5								7000	6950	6960	6800	6580	6440	6310	6140	6010	5840	5630	5390
43.0									6860	6860	6710	6490	6350	6220	6060	5920	5750	5550	5310
44.0									6680	6680	6530	6320	6180	6050	5890	5760	5600	5400	5160
45.0									6500	6510	6360	6150	6010	5890	5730	5610	5440	5250	5020
46.0									6340	6190	5990	5850	5740	5580	5460	5300	5110	4890	
47.0									6180	6030	5840	5700	5590	5440	5320	5160	4980	4760	
47.5									6100	5960	5760	5630	5520	5370	5250	5090	4910	4690	
48.0										5880	5690	5560	5450	5300	5180	5030	4850	4630	
49.0										5740	5550	5420	5310	5170	5050	4900	4720	4510	
50.0										5600	5420	5290	5180	5040	4930	4780	4610	4400	
51.0											5290	5160	5060	4920	4800	4660	4490	4290	
52.0											5160	5040	4940	4800	4690	4550	4380	4180	
52.5											5100	4980	4880	4740	4630	4500	4330	4130	
53.0												4920	4820	4690	4580	4440	4280	4080	
54.0												4810	4710	4580	4470	4340	4180	3990	
55.0												4700	4600	4470	4370	4240	4080	3890	
56.0													4500	4370	4270	4140	3980	3800	
57.0													4400	4270	4170	4050	3890	3710	
57.5													4350	4230	4130	4000	3850	3670	
58.0														4180	4080	3960	3800	3630	
59.0														4090	3990	3870	3720	3550	
60.0														4000	3900	3780	3640	3470	
61.0															3820	3700	3560	3390	
62.0															3740	3620	3480	3320	
62.5															3700	3580	3440	3280	
63.0																3550	3410	3240	
64.0																3470	3340	3180	
65.0																3400	3270	3110	
66.0																	3200	3040	
67.0																		3130	2980
67.5																		3100	2950
68.0																			2920
69.0																			2860
70.0																			2800

3 Tower combinations



! DANGER

Usage of incorrect tower combinations.

The slewing tower crane may overturn.

- 1) Use the specified tower combinations.
- 2) If you need another tower combination that is not specified here, please contact WOLFFKRAN to get an approved alternative setup in writing.



NOTICE

All tower combinations apply to free standing slewing tower cranes without climbing gear.

3 Tower combinations

3.1 Tower combinations on foundation (slewing section with UV 20 / TV 20 - connection)

Jib length	25 m – 50 m				
Item					
1	4.5 m	UV 20.4	TV 20.4	UV 20.4	
2	9.0 m	UV 20.4	TV 20.4	UV 20.4	
3	13.5 m	UV 20.4	TV 20.4	UV 20.4	
4	18.0 m	UV 20.4	TV 20.4	UV 20.4	
5	22.5 m	UV 20.4	TV 20.4	UV 20.4	
6	27.0 m	UV 20.4	TV 20.4	UV 20.4	
7	31.5 m	UV 20.4	TV 20.4	UV 20.4	
8	36.0 m	UV 20.4	TV 20.4	TVA 20.4	
9	40.5 m	UV 20.4	TV 20.4	TV 20.4	
10	45.0 m		TV 20.4	TV 20.4	
11	49.5 m		TV 20.4	TV 20.4	
12	54.0 m		TV 20.4	TV 20.4	
13	58.5 m		TV 20.4	TV 20.4	
14	63.0 m		TV 20.4	TV 20.4	
15	67.5 m		TV 20.4	TV 20.4	
16	72.0 m			TV 20.4	
Foundation anchors		FUA 120 / Type C-120	FUA 140 / Type D-140	FUA 140 / Type D-140	
Tower height [m]		40.5	67.5	72.0	
Hook height 2 fall operation [m]		42.0	69.0	73.5	
Hook height 4 fall operation [m]		41.6	68.6	73.1	
Wind category		C 25			

Jib length	25 m – 50 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	64.0 m	VR 2023			
16	68.5 m	TV 23			
17	73.0 m	HTA 23			
18	77.5 m	HT 23			
19	82.0 m	HT 23			
20	86.5 m	HT 23			
Foundation anchors		FUA G 160			
Tower height [m]		86.5			
Hook height 2 fall operation [m]		88.0			
Hook height 4 fall operation [m]		87.6			
Wind category	C 25				

3 Tower combinations

Jib length	25 m – 50 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	64.0 m	VR 2023			
16	68.5 m	TV 23			
17	73.0 m	HTA 23			
18	77.5 m	HT 23			
19	82.0 m	HT 23			
20	93.3 m	BT 23			
Foundation anchors		FUA G 210			
Tower height [m]		93.3			
Hook height 2 fall operation [m]		94.8			
Hook height 4 fall operation [m]		94.4			
Wind category					C 25

Jib length	25 m – 50 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	59.5 m	VR 2023			
15	64.0 m	TV 23			
16	68.5 m	HTA 23			
17	73.0 m	HT 23			
18	77.5 m	HT 23			
19	82.0 m	HT 23			
20	83.2 m	VR 23/25-29			
21	87.7 m	UV 29			
22	92.2 m	UV 29			
23	102.2 m	BT 29			
Foundation anchors		FUA BT 29			
Tower height [m]		102.2			
Hook height 2 fall operation [m]		103.7			
Hook height 4 fall operation [m]		103.3			
Wind category					C 25

3 Tower combinations

Jib length	52.5 m – 70 m				
Item					
1	4.5 m	UV 20.4	TV 20.4	UV 20.4	
2	9.0 m	UV 20.4	TV 20.4	UV 20.4	
3	13.5 m	UV 20.4	TV 20.4	UV 20.4	
4	18.0 m	UV 20.4	TV 20.4	UV 20.4	
5	22.5 m	UV 20.4	TV 20.4	UV 20.4	
6	27.0 m	UV 20.4	TV 20.4	UV 20.4	
7	31.5 m	UV 20.4	TV 20.4	UV 20.4	
8	36.0 m	UV 20.4	TV 20.4	TVA 20.4	
9	40.5 m	UV 20.4	TV 20.4	TV 20.4	
10	45.0 m		TV 20.4	TV 20.4	
11	49.5 m		TV 20.4	TV 20.4	
12	54.0 m		TV 20.4	TV 20.4	
13	58.5 m		TV 20.4	TV 20.4	
14	63.0 m		TV 20.4	TV 20.4	
15	67.5 m			TV 20.4	
Foundation anchors		FUA 120 / Type C-120	FUA 140 / Type D-140	FUA 140 / Type D-140	
Tower height [m]		40.5	63.0	67.5	
Hook height 2 fall operation [m]		42.0	64.5	69.0	
Hook height 4 fall operation [m]		41.6	64.1	68.6	
Wind category		C 25			

Jib length		52.5 m – 70 m			
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	UV 20.4			
8	36.0 m	TVA 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	64.0 m	VR 2023			
16	68.5 m	TV 23			
17	73.0 m	HTA 23			
18	77.5 m	HT 23			
19	82.0 m	HT 23			
Foundation anchors		FUA G 160			
Tower height [m]		82.0			
Hook height 2 fall operation [m]		83.5			
Hook height 4 fall operation [m]		83.1			
Wind category		C 25			

3 Tower combinations

Jib length	52.5 m – 70 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	UV 20.4			
8	36.0 m	TVA 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	59.5 m	VR 2023			
15	64.0 m	TV 23			
16	68.5 m	HTA 23			
17	73.0 m	HT 23			
18	77.5 m	HT 23			
19	88.8 m	BT 23			
Foundation anchors		FUA G 210			
Tower height [m]		88.8			
Hook height 2 fall operation [m]		90.3			
Hook height 4 fall operation [m]		89.9			
Wind category	C 25				

Jib length	52.5 m – 70 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	59.5 m	VR 2023			
15	64.0 m	TV 23			
16	68.5 m	HTA 23			
17	73.0 m	HT 23			
18	77.5 m	HT 23			
19	78.7 m	VR 23/25-29			
20	83.2 m	UV 29			
21	87.7 m	UV 29			
22	97.7 m	BT 29			
Foundation anchors		FUA BT 29			
Tower height [m]		97.7			
Hook height 2 fall operation [m]		99.2			
Hook height 4 fall operation [m]		98.8			
Wind category			C 25		

3 Tower combinations

3.2 Tower combinations on cross frame (slewing section with UV 20 - connection)

Jib length		25 m – 50 m			
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	
8	36.0 m	UV 20.4	UV 20.4	TVA 20.4	
9	40.5 m	TVA 20.4	TVA 20.4	TV 20.4	
10	45.0 m	TV 20.4	TV 20.4	TV 20.4	
11	49.5 m	TV 20.4	TV 20.4	TV 20.4	
12	54.0 m	TV 20.4	TV 20.4	TV 20.4	
13	58.5 m	TV 20.4		TV 20.4	
14	63.0 m			TV 20.4	
15	67.5 m			TV 20.4	
Substructure		KR 10-46	KR 10-46/60	KRV 10-60	
Corner distance [m x m]		4.6 x 4.6	6.0 x 6.0	5.0 x 5.0 6.0 x 6.0	
Substructure height [m]		1.2	1.2	1.2	
Tower height [m]		59.7	55.2	68.7	
Hook height 2 fall operation [m]		61.2	56.7	70.2	
Hook height 4 fall operation [m]		60.8	56.3	69.8	
Wind category		C 25			

Jib length	25 m – 50 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	TVA 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	64.0 m	VR 2023		
16	68.5 m	TV 23		
17	73.0 m	TV 23		
Substructure		KRV 10-60		
Corner distance [m x m]		5.0 x 5.0 6.0 x 6.0		
Substructure height [m]		1.2		
Tower height [m]		74.2		
Hook height 2 fall operation [m]		75.7		
Hook height 4 fall operation [m]		75.3		
Wind category			C 25	

3 Tower combinations

Jib length	25 m – 50 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	TVA 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	67.5 m	TV 20.4		
Substructure		KR 12-60 KR 12-60/80		
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0		
Substructure height [m]		1.4		
Tower height [m]		68.9		
Hook height 2 fall operation [m]		70.4		
Hook height 4 fall operation [m]		70.0		
Wind category		C 25		

Jib length	25 m – 50 m			
Item				
1	4.5 m	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	
7	31.5 m	TVA 20.4	TVA 20.4	
8	36.0 m	TV 20.4	TV 20.4	
9	40.5 m	TV 20.4	TV 20.4	
10	45.0 m	TV 20.4	TV 20.4	
11	49.5 m	TV 20.4	TV 20.4	
12	54.0 m	TV 20.4	TV 20.4	
13	58.5 m	TV 20.4	TV 20.4	
14	63.0 m	TV 20.4	TV 20.4	
15	64.0 m	VR 2023	VR 2023	
16	68.5 m	TV 23	TV 23	
17	73.0 m	TV 23	HTA 23	
18	77.5 m	HTA 23	HT 23	
19	82.0 m	HT 23	HT 23	
20	86.5 m		HT 23	
Substructure		KR 12-60 KR 12-60/80	KR 16-80 KR 16-80/100	
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0	8.0 x 8.0 10.0 x 10.0	
Substructure height [m]		1.4	1.8	
Tower height [m]		83.4	88.3	
Hook height 2 fall operation [m]		84.9	89.8	
Hook height 4 fall operation [m]		84.5	89.4	
Wind category		C 25		

Jib length	25 m – 50 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	TVA 20.4		
8	36.0 m	TV 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	59.5 m	VR 2023		
15	64.0 m	TV 23		
16	68.5 m	HTA 23		
17	73.0 m	HT 23		
18	77.5 m	HT 23		
19	82.0 m	HT 23		
20	83.2 m	VR 23/25-29		
21	87.7 m	UV 29		
22	97.7 m	BT 29		
Substructure		KR 16-80/100		
Corner distance [m x m]		10.0 x 10.0		
Substructure height [m]		1.8		
Tower height [m]		99.5		
Hook height 2 fall operation [m]		101.0		
Hook height 4 fall operation [m]		100.6		
Wind category		C 25		

3 Tower combinations

Jib length	52.5 m – 70 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
8	36.0 m	UV 20.4	UV 20.4	TVA 20.4	UV 20.4
9	40.5 m	TVA 20.4	TVA 20.4	TV 20.4	TVA 20.4
10	45.0 m	TV 20.4	TV 20.4	TV 20.4	TV 20.4
11	49.5 m	TV 20.4	TV 20.4	TV 20.4	TV 20.4
12	54.0 m	TV 20.4	TV 20.4	TV 20.4	TV 20.4
13	58.5 m	TV 20.4		TV 20.4	TV 20.4
14	63.0 m			TV 20.4	TV 20.4
15	67.5 m			TV 20.4	
Substructure		KR 10-46	KR 10-46/60	KRV 10-60	KRV 10-60
Corner distance [m x m]		4.6 x 4.6	6.0 x 6.0	5.0 x 5.0	6.0 x 6.0
Substructure height [m]		1.2	1.2	1.2	1.2
Tower height [m]		59.7	55.2	68.7	64.2
Hook height 2 fall operation [m]		61.2	56.7	70.2	65.7
Hook height 4 fall operation [m]		60.8	56.3	69.8	65.3
Wind category		C 25			

Jib length	52.5 m – 70 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	TVA 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	64.0 m	VR 2023		
16	68.5 m	TV 23		
Substructure		KRV 10-60		
Corner distance [m x m]		5.0 x 5.0 6.0 x 6.0		
Substructure height [m]		1.2		
Tower height [m]		69.7		
Hook height 2 fall operation [m]		71.2		
Hook height 4 fall operation [m]		70.8		
Wind category			C 25	

3 Tower combinations

Jib length	52.5 m – 70 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	TVA 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	67.5 m	TV 20.4		
Substructure		KR 12-60 KR 12-60/80		
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0		
Substructure height [m]		1.4		
Tower height [m]		68.9		
Hook height 2 fall operation [m]		70.4		
Hook height 4 fall operation [m]		70.0		
Wind category	C 25			

Jib length	52.5 m – 70 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	TVA 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	64.0 m	VR 2023		
16	68.5 m	TV 23		
17	73.0 m	HTA 23		
18	77.5 m	HT 23		
Substructure		KR 12-60 KR 12-60/80		
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0		
Substructure height [m]		1.4		
Tower height [m]		78.9		
Hook height 2 fall operation [m]		80.4		
Hook height 4 fall operation [m]		80.0		
Wind category			C 25	

3 Tower combinations

Jib length	52.5 m – 70 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	TVA 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	59.5 m	VR 2023		
15	64.0 m	TV 23		
16	68.5 m	TV 23		
17	73.0 m	HTA 23		
18	77.5 m	HT 23		
19	82.0 m	HT 23		
Substructure		KR 16-80 KR 16-80/100		
Corner distance [m x m]		8.0 x 8.0 10.0 x 10.0		
Substructure height [m]		1.8		
Tower height [m]		83.8		
Hook height 2 fall operation [m]		85.3		
Hook height 4 fall operation [m]		84.9		
Wind category	C 25			

Jib length	52.5 m – 70 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	UV 20.4		
8	36.0 m	TVA 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	59.5 m	VR 2023		
15	64.0 m	TV 23		
16	68.5 m	HTA 23		
17	73.0 m	HT 23		
18	77.5 m	HT 23		
19	78.7 m	VR 23/25-29		
20	83.2 m	UV 29		
21	93.2 m	BT 29		
Substructure		KR 16-80 KR 16-80/100		
Corner distance [m x m]		8.0 x 8.0 10.0 x 10.0		
Substructure height [m]		1.8		
Tower height [m]		95.0		
Hook height 2 fall operation [m]		96.5		
Hook height 4 fall operation [m]		96.1		
Wind category			C 25	

3 Tower combinations

3.3 Tower combinations on cross frame element (slewing section with UV 20 - connection)

Jib length	25 m – 50 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	
8	36.0 m	UV 20.4	UV 20.4	TVA 20.4	
9	40.5 m	TVA 20.4	TVA 20.4	TV 20.4	
10	45.0 m		TV 20.4	TV 20.4	
11	49.5 m		TV 20.4	TV 20.4	
12	54.0 m		TV 20.4	TV 20.4	
13	58.5 m			TV 20.4	
14	63.0 m			TVÜ 20.4	
15	67.5 m			UVA 25	
Substructure		KRE 260.2	KRE 260.2	KRE 480	
Corner distance [m x m]		5.0 x 6.79	6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		4.0	4.0	4.0	
Tower height [m]		44.5	58.0	71.5	
Hook height 2 fall operation [m]		46.0	59.5	73.0	
Hook height 4 fall operation [m]		45.6	59.1	72.6	
Wind category		C 25			

Jib length	52.5 m – 70 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	
7	31.5 m	UV 20.4	UV 20.4	UV 20.4	
8	36.0 m	UV 20.4	UV 20.4	TVA 20.4	
9	40.5 m	TVA 20.4	TVA 20.4	TV 20.4	
10	45.0 m		TV 20.4	TV 20.4	
11	49.5 m		TV 20.4	TV 20.4	
12	54.0 m		TV 20.4	TV 20.4	
13	58.5 m			TV 20.4	
14	63.0 m			TVÜ 20.4	
15	67.5 m			UVA 25	
Substructure		KRE 260.2	KRE 260.2	KRE 480	
Corner distance [m x m]		5.0 x 6.79	6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		4.0	4.0	4.0	
Tower height [m]		44.5	58.0	71.5	
Hook height 2 fall operation [m]		46.0	59.5	73.0	
Hook height 4 fall operation [m]		45.6	59.1	72.6	
Wind category		C 25			

3 Tower combinations

3.4 Tower combinations on city portal (slewing section with UV 20 - connection)

Jib length	25 m – 50 m			
Item				
1	4.5 m	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	
7	31.5 m	UV 20.4	TVA 20.4	
8	36.0 m	UV 20.4	TV 20.4	
9	40.5 m	TVA 20.4	TV 20.4	
10	45.0 m	TV 20.4	TV 20.4	
11	49.5 m	TV 20.4	TV 20.4	
12	54.0 m		TV 20.4	
13	58.5 m		TV 20.4	
14	63.0 m		TV 20.4	
15	64.0 m		VR 2023	
16	68.5 m		TV 23	
17	73.0 m		TV 23	
18	77.5 m		HTA 23	
19	82.0 m		HT 23	
Substructure		CP 520	CP 690	
Corner distance [m x m]		5.24 x 5.24	6.92 x 6.92	
Substructure height [m]		5.8	6.3	
Tower height [m]		55.3	88.3	
Hook height 2 fall operation [m]		56.8	89.8	
Hook height 4 fall operation [m]		56.4	89.4	
Wind category		C 25		

Jib length	52.5 m – 70 m				
Item					
1	4.5 m	UV 20.4	UV 20.4		
2	9.0 m	UV 20.4	UV 20.4		
3	13.5 m	UV 20.4	UV 20.4		
4	18.0 m	UV 20.4	UV 20.4		
5	22.5 m	UV 20.4	UV 20.4		
6	27.0 m	UV 20.4	UV 20.4		
7	31.5 m	UV 20.4	UV 20.4		
8	36.0 m	UV 20.4	TVA 20.4		
9	40.5 m	TVA 20.4	TV 20.4		
10	45.0 m	TV 20.4	TV 20.4		
11	49.5 m	TV 20.4	TV 20.4		
12	54.0 m		TV 20.4		
13	58.5 m		TV 20.4		
14	63.0 m		TV 20.4		
15	64.0 m		VR 2023		
16	68.5 m		TV 23		
17	73.0 m		HTA 23		
18	77.5 m		HT 23		
Substructure		CP 520	CP 690		
Corner distance [m x m]		5.24 x 5.24	6.92 x 6.92		
Substructure height [m]		5.8	6.3		
Tower height [m]		55.3	83.8		
Hook height 2 fall operation [m]		56.8	85.3		
Hook height 4 fall operation [m]		56.4	84.9		
Wind category		C 25			

3 Tower combinations

3.5 Tower combinations on mobile cross frame (slewing section with UV 20 - connection)

Jib length	25 m – 42.5 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	31.5 m	UV 20.4	UV 20.4	TVA 20.4	TVA 20.4
8	36.0 m	UV 20.4	TVA 20.4	TV 20.4	TV 20.4
9	40.5 m		TV 20.4	TV 20.4	TV 20.4
10	45.0 m		TV 20.4	TV 20.4	TV 20.4
11	49.5 m		TV 20.4	TV 20.4	TV 20.4
12	54.0 m		TV 20.4	TV 20.4	TV 20.4
13	58.5 m		TV 20.4	TV 20.4	TV 20.4
14	63.0 m			TV 20.4	TV 20.4
15	67.5 m			TV 20.4	TV 20.4
16	68.5 m				VR 2023
17	73.0 m				TV 23
Substructure		KRF 10-46/60	KRF 10-46/60	KRF4 12-60/80	KRF4 12-60/80
Corner distance [m x m]		6.0 x 6.0	6.0 x 6.0	8.0 x 8.0	8.0 x 8.0
Substructure height [m]		2.0	2.0	2.5	2.5
Tower height [m]		38.0	60.5	70.0	75.5
Hook height 2 fall operation [m]		39.5	62.0	71.5	77.0
Hook height 4 fall operation [m]		39.1	61.6	71.1	76.6
Wind category		C 25			

Jib length	25 m – 42.5 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	67.5 m	TV 20.4			
Substructure		KRF6 12-60/80			
Corner distance [m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		70.4			
Hook height 2 fall operation [m]		71.9			
Hook height 4 fall operation [m]		71.5			
Wind category		C 25			

3 Tower combinations

Jib length	25 m – 42.5 m			
Item				
1	4.5 m	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	
7	31.5 m	TVA 20.4	TVA 20.4	
8	36.0 m	TV 20.4	TV 20.4	
9	40.5 m	TV 20.4	TV 20.4	
10	45.0 m	TV 20.4	TV 20.4	
11	49.5 m	TV 20.4	TV 20.4	
12	54.0 m	TV 20.4	TV 20.4	
13	58.5 m	TV 20.4	TV 20.4	
14	63.0 m	TV 20.4	TV 20.4	
15	64.0 m	VR 2023	VR 2023	
16	68.5 m	TV 23	TV 23	
17	73.0 m	TV 23	TV 23	
18	77.5 m	HTA 23	HTA 23	
19	82.0 m	HT 23	HT 23	
20	86.5 m		HT 23	
Substructure		KRF6 12-60/80	KRF 16-80/100	
Corner distance [m x m]		8.0 x 8.0	10.0 x 10.0	
Substructure height [m]		2.9	3.3	
Tower height [m]		84.9	89.8	
Hook height 2 fall operation [m]		86.4	91.3	
Hook height 4 fall operation [m]		86.0	90.9	
Wind category		C 25		

Jib length	25 m – 42.5 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	TVA 20.4			
7	31.5 m	TV 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	59.5 m	VR 2023			
15	64.0 m	TV 23			
16	68.5 m	TV 23			
17	73.0 m	HTA 23			
18	77.5 m	HT 23			
19	82.0 m	HT 23			
20	83.2 m	VR 23/25-29			
21	87.7 m	UV 29			
22	97.7 m	BT 29			
Substructure	KRF 16-80/100				
Corner distance [m x m]	10.0 x 10.0				
Substructure height [m]	3.3				
Tower height [m]	101.0				
Hook height 2 fall operation [m]	102.5				
Hook height 4 fall operation [m]	102.1				
Wind category	C 25				

3 Tower combinations

Jib length	45 m – 57.5 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	31.5 m	UV 20.4	UV 20.4	TVA 20.4	TVA 20.4
8	36.0 m	UV 20.4	TVA 20.4	TV 20.4	TV 20.4
9	40.5 m		TV 20.4	TV 20.4	TV 20.4
10	45.0 m		TV 20.4	TV 20.4	TV 20.4
11	49.5 m		TV 20.4	TV 20.4	TV 20.4
12	54.0 m		TV 20.4	TV 20.4	TV 20.4
13	58.5 m		TV 20.4	TV 20.4	TV 20.4
14	63.0 m			TV 20.4	TV 20.4
15	67.5 m			TV 20.4	TV 20.4
16	68.5 m				VR 2023
Substructure		KRF 10-46/60	KRF 10-46/60	KRF4 12-60/80	KRF4 12-60/80
Corner distance [m x m]		6.0 x 6.0	6.0 x 6.0	8.0 x 8.0	8.0 x 8.0
Substructure height [m]		2.0	2.0	2.5	2.5
Tower height [m]		38.0	60.5	70.0	71.0
Hook height 2 fall operation [m]		39.5	62.0	71.5	72.5
Hook height 4 fall operation [m]		39.1	61.6	71.1	72.1
Wind category		C 25			

Jib length	45 m – 57.5 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	67.5 m	TV 20.4			
Substructure		KRF6 12-60/80			
Corner distance [m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		70.4			
Hook height 2 fall operation [m]		71.9			
Hook height 4 fall operation [m]		71.5			
Wind category		C 25			

3 Tower combinations

Jib length	45 m – 57.5 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	TVA 20.4		
8	36.0 m	TV 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	64.0 m	VR 2023		
16	68.5 m	TV 23		
17	73.0 m	TV 23		
18	77.5 m	HTA 23		
Substructure		KRF6 12-60/80		
Corner distance [m x m]		8.0 x 8.0		
Substructure height [m]		2.9		
Tower height [m]		80.4		
Hook height 2 fall operation [m]		81.9		
Hook height 4 fall operation [m]		81.5		
Wind category			C 25	

Jib length		45 m – 57.5 m			
Item					
1	4.5 m	UV 20.4	UV 20.4		
2	9.0 m	UV 20.4	UV 20.4		
3	13.5 m	UV 20.4	UV 20.4		
4	18.0 m	UV 20.4	UV 20.4		
5	22.5 m	UV 20.4	UV 20.4		
6	27.0 m	TVA 20.4	TVA 20.4		
7	31.5 m	TV 20.4	TV 20.4		
8	36.0 m	TV 20.4	TV 20.4		
9	40.5 m	TV 20.4	TV 20.4		
10	45.0 m	TV 20.4	TV 20.4		
11	49.5 m	TV 20.4	TV 20.4		
12	54.0 m	TV 20.4	TV 20.4		
13	58.5 m	TV 20.4	TV 20.4		
14	59.5 m	VR 2023	VR 2023		
15	64.0 m	TV 23	TV 23		
16	68.5 m	TV 23	TV 23		
17	73.0 m	HTA 23	HTA 23		
18	77.5 m	HT 23	HT 23		
19	82.0 m	HT 23	HT 23		
20	83.2 m		VR 23/25-29		
21	93.2 m		BT 29		
Substructure		KRF 16-80/100	KRF 16-80/100		
Corner distance [m x m]		10.0 x 10.0	10.0 x 10.0		
Substructure height [m]		3.3	3.3		
Tower height [m]		85.3	96.5		
Hook height 2 fall operation [m]		86.8	98.0		
Hook height 4 fall operation [m]		86.4	97.6		
Wind category			C 25		

3 Tower combinations

Jib length	60 m – 70 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	
5	22.5 m	UV 20.4	UV 20.4	UV 20.4	
6	27.0 m	UV 20.4	UV 20.4	UV 20.4	
7	31.5 m	UV 20.4	UV 20.4	TVA 20.4	
8	36.0 m	UV 20.4	TVA 20.4	TV 20.4	
9	40.5 m		TV 20.4	TV 20.4	
10	45.0 m		TV 20.4	TV 20.4	
11	49.5 m		TV 20.4	TV 20.4	
12	54.0 m		TV 20.4	TV 20.4	
13	58.5 m			TV 20.4	
14	63.0 m			TV 20.4	
15	67.5 m			TV 20.4	
Substructure		KRF 10-46/60	KRF 10-46/60	KRF4 12-60/80	
Corner distance [m x m]		6.0 x 6.0	6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		2.0	2.0	2.5	
Tower height [m]		38.0	56.0	70.0	
Hook height 2 fall operation [m]		39.5	57.5	71.5	
Hook height 4 fall operation [m]		39.1	57.1	71.1	
Wind category		C 25			

Jib length	60 m – 70 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	64.0 m	VR 2023			
16	68.5 m	TV 23			
Substructure		KRF4 12-60/80			
Corner distance [m x m]		8.0 x 8.0			
Substructure height [m]		2.5			
Tower height [m]		71.0			
Hook height 2 fall operation [m]		72.5			
Hook height 4 fall operation [m]		72.1			
Wind category		C 25			

3 Tower combinations

Jib length	60 m – 70 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	UV 20.4		
7	31.5 m	TVA 20.4		
8	36.0 m	TV 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	67.5 m	TV 20.4		
Substructure		KRF6 12-60/80		
Corner distance [m x m]		8.0 x 8.0		
Substructure height [m]		2.9		
Tower height [m]		70.4		
Hook height 2 fall operation [m]		71.9		
Hook height 4 fall operation [m]		71.5		
Wind category		C 25		

Jib length	60 m – 70 m				
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	UV 20.4			
7	31.5 m	TVA 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	63.0 m	TV 20.4			
15	64.0 m	VR 2023			
16	68.5 m	TV 23			
17	73.0 m	HTA 23			
18	77.5 m	HT 23			
Substructure	KRF6 12-60/80				
Corner distance [m x m]	8.0 x 8.0				
Substructure height [m]	2.9				
Tower height [m]	80.4				
Hook height 2 fall operation [m]	81.9				
Hook height 4 fall operation [m]	81.5				
Wind category	C 25				

3 Tower combinations

Jib length	60 m – 70 m			
Item				
1	4.5 m	UV 20.4		
2	9.0 m	UV 20.4		
3	13.5 m	UV 20.4		
4	18.0 m	UV 20.4		
5	22.5 m	UV 20.4		
6	27.0 m	TVA 20.4		
7	31.5 m	TV 20.4		
8	36.0 m	TV 20.4		
9	40.5 m	TV 20.4		
10	45.0 m	TV 20.4		
11	49.5 m	TV 20.4		
12	54.0 m	TV 20.4		
13	58.5 m	TV 20.4		
14	59.5 m	VR 2023		
15	64.0 m	TV 23		
16	68.5 m	HTA 23		
17	73.0 m	HT 23		
18	77.5 m	HT 23		
19	82.0 m	HT 23		
Substructure		KRF 16-80/100		
Corner distance [m x m]		10.0 x 10.0		
Substructure height [m]		3.3		
Tower height [m]		85.3		
Hook height 2 fall operation [m]		86.8		
Hook height 4 fall operation [m]		86.4		
Wind category			C 25	

Jib length		60 m – 70 m			
Item					
1	4.5 m	UV 20.4			
2	9.0 m	UV 20.4			
3	13.5 m	UV 20.4			
4	18.0 m	UV 20.4			
5	22.5 m	UV 20.4			
6	27.0 m	TVA 20.4			
7	31.5 m	TV 20.4			
8	36.0 m	TV 20.4			
9	40.5 m	TV 20.4			
10	45.0 m	TV 20.4			
11	49.5 m	TV 20.4			
12	54.0 m	TV 20.4			
13	58.5 m	TV 20.4			
14	59.5 m	VR 2023			
15	64.0 m	TV 23			
16	68.5 m	HTA 23			
17	73.0 m	HT 23			
18	77.5 m	HT 23			
19	78.7 m	VR 23/25-29			
20	88.7 m	BT 29			
Substructure		KRF 16-80/100			
Corner distance [m x m]		10.0 x 10.0			
Substructure height [m]		3.3			
Tower height [m]		92.0			
Hook height 2 fall operation [m]		93.5			
Hook height 4 fall operation [m]		93.1			
Wind category		C 25			

3 Tower combinations

3.6 Tower combinations on undercarriage (slewing section with UV 20 - connection)



Jib length	25 m – 42.5 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	TVA 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m		UV 20.4	UV 20.4	UV 20.4
7	31.5 m		UV 20.4	UV 20.4	TVA 20.4
8	36.0 m		UV 20.4	TVA 20.4	TV 20.4
9	40.5 m		TVA 20.4	TV 20.4	TV 20.4
10	45.0 m			TV 20.4	TV 20.4
11	49.5 m			TV 20.4	TV 20.4
12	54.0 m			TV 20.4	TV 20.4
13	58.5 m				TV 20.4
14	63.0 m				TV 20.4
15	67.5 m				TVÜ 20.4
16	72.0 m				UVA 25
Substructure		UW 260.2	UW 260.3	UW 260.3	UW 480
Corner distance [m x m]		6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	8.0 x 8.0
Substructure height [m]		4.5	4.5	4.5	5.0
Tower height [m]		27.0	45.0	58.5	77.0
Hook height 2 fall operation [m]		28.5	46.5	60.0	78.5
Hook height 4 fall operation [m]		28.1	46.1	59.6	78.1
Wind category		C 25			

Jib length	45 m – 57.5 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	TVA 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m		UV 20.4	UV 20.4	UV 20.4
7	31.5 m		UV 20.4	UV 20.4	TVA 20.4
8	36.0 m		UV 20.4	TVA 20.4	TV 20.4
9	40.5 m		TVA 20.4	TV 20.4	TV 20.4
10	45.0 m			TV 20.4	TV 20.4
11	49.5 m			TV 20.4	TV 20.4
12	54.0 m			TV 20.4	TV 20.4
13	58.5 m				TV 20.4
14	63.0 m				TVÜ 20.4
15	67.5 m				UVA 25
Substructure		UW 260.2	UW 260.3	UW 260.3	UW 480
Corner distance [m x m]		6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	8.0 x 8.0
Substructure height [m]		4.5	4.5	4.5	5.0
Tower height [m]		27.0	45.0	58.5	72.5
Hook height 2 fall operation [m]		28.5	46.5	60.0	74.0
Hook height 4 fall operation [m]		28.1	46.1	59.6	73.6
Wind category		C 25			

3 Tower combinations

Jib length	60 m – 70 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	9.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	13.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	18.0 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	22.5 m	TVA 20.4	UV 20.4	UV 20.4	UV 20.4
6	27.0 m		UV 20.4	UV 20.4	UV 20.4
7	31.5 m		UV 20.4	UV 20.4	UV 20.4
8	36.0 m		UV 20.4	TVA 20.4	TVA 20.4
9	40.5 m		TVA 20.4	TV 20.4	TV 20.4
10	45.0 m			TV 20.4	TV 20.4
11	49.5 m			TV 20.4	TV 20.4
12	54.0 m				TV 20.4
13	58.5 m				TVÜ 20.4
14	63.0 m				UVA 25
Substructure		UW 260.2	UW 260.3	UW 260.3	UW 480
Corner distance [m x m]		6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	8.0 x 8.0
Substructure height [m]		4.5	4.5	4.5	5.0
Tower height [m]		27.0	45.0	54.0	68.0
Hook height 2 fall operation [m]		28.5	46.5	55.5	69.5
Hook height 4 fall operation [m]		28.1	46.1	55.1	69.1
Wind category		C 25			

4 Foundation loads / central ballast weights / corner loads in compliance with EN 14439 / EN 13001

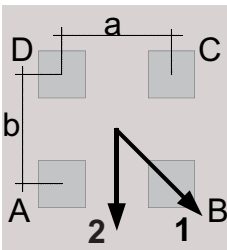
	⚠ DANGER
	<p>Usage of incorrect tower combinations. The slewing tower crane may overturn.</p> <ol style="list-style-type: none"> 1) Use the specified tower combinations. 2) If you need another tower combination that is not specified here, please contact WOLFFKRAN to get an approved alternative setup in writing.
	NOTICE
	<p>If you need foundation loads for tower combination with tower element TV 25 and UV 25, please contact WOLFFKRAN to get an approved alternative setup.</p>

Jib positions

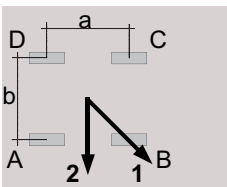
The corner loads are given for two jib positions with the maximum corner load resulting from jib position 1.

For square setup, the following equation is true: $a = b$

For rectangular setup, the following equation is true: $a > b$



Cross frame or cross frame element



Undercarriage


NOTICE! For undercarriage details, please refer to the relevant operating manual.

Wind load with crane out of service

The stability for stormy weather is calculated on the basis of wind region C (EN 13001-2). The reference wind speed for zone C is 28 m/s (10 m above ground, averaged over 10 minutes). As a basis, a recurrence interval of 25 years is used. As a basis, a recurrence interval of 25 years is used.

4 Foundation loads / central ballast weights / corner loads in compliance with EN 14439 / EN 13001

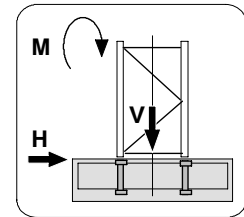
Please contact WOLFFKRAN for stability calculations in other wind regions.

	NOTICE
	The 4 fall hook height is only for the crane 7032.12 <i>clear</i> in 4 fall operation.

For information on the different substructures, refer to Section 5 of the Operating Manual.

4.1 Foundation loads jib 25 m - 50 m

Slewing section 7032 *clear* with 25 m – 50 m jib on foundation.
Slewing tower crane without climbing device.



Foundation load in compliance with EN 14439 / EN 13001 – typical loads

Includes all dynamical factors under consideration of second-order theory for stationary slewing tower cranes on concrete foundation in compliance with a tower combination without climbing device.

HH		Crane in service			Crane out of service			Assembly		
4	2	Slewing torque: 360 kNm			Wind category C25			M	V	H
STR	STR	M	V	H	M	V	H	M	V	H
[m]	[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
5.6	6.0	2280	473	21	2070	473	35	1860	299	7
10.1	10.5	2380	502	23	2250	502	41	1890	328	8
14.6	15.0	2490	530	25	2450	530	47	1930	356	9
19.1	19.5	2620	558	27	2680	558	53	1980	384	10
23.6	24.0	2830	680	30	2950	587	59	2030	412	11
28.1	28.5	3000	698	32	3250	615	65	2090	441	12
32.6	33.0	3200	716	33	3590	643	72	2160	469	13
37.1	37.5	3420	734	35	3970	672	78	2230	497	14
41.6	42.0	3660	753	36	4380	700	84	2320	526	15
46.1	46.5	3860	791	39	4830	728	90	2410	554	16
50.6	51.0	4150	900	44	5330	756	96	2510	582	18
55.1	55.5	4450	928	46	5880	785	102	2630	611	19
59.6	60.0	4850	1038	48	6480	813	109	2750	639	20
64.1	64.5	5240	1066	50	7140	841	115	2890	667	21
68.6	69.0	5670	1095	52	7930	964	172	3030	695	22
73.1	73.5	5980	1052	51	8210	922	169	3080	653	21
74.1	74.5	5890	1106	53	8390	976	176	3080	707	22
78.6	79.0	6280	1145	55	9580	1015	188	3220	746	24
83.1	83.5	6710	1185	57	10880	1055	200	3370	786	25
87.6	88.0	7170	1224	60	12300	1094	212	3530	825	26
89.9	90.3	7340	1259	61	12940	1129	219	3600	860	27
94.4	94.8	7850	1298	63	14530	1168	231	3780	899	28
Tower combination with base tower element BT 29										
94.3	94.7	7600	1323	64	14240	1193	234	3730	924	29
98.8	99.2	8070	1369	66	15860	1239	247	3900	970	30
103.3	103.7	8580	1415	69	17620	1285	261	4090	1016	31

Caption:

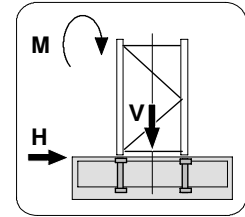
HH:	Hook height	V:	Vertical load	STR:	Number of falls
H:	Horizontal load	M:	Torque		

4.2 Foundation loads jib 52.5 m - 70 m

Slewing section 7032 *clear* with 52.5 m – 70 m jib on foundation.
Slewing tower crane without climbing device.

Foundation load in compliance with EN 14439 / EN 13001 – typical loads

Includes all dynamical factors under consideration of second-order theory for stationary slewing tower cranes on concrete foundation in compliance with a tower combination without climbing device.


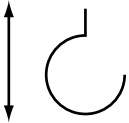
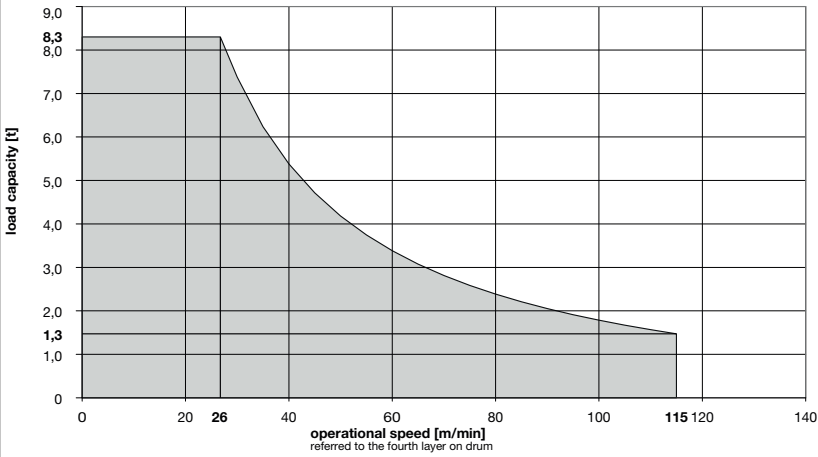

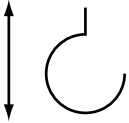
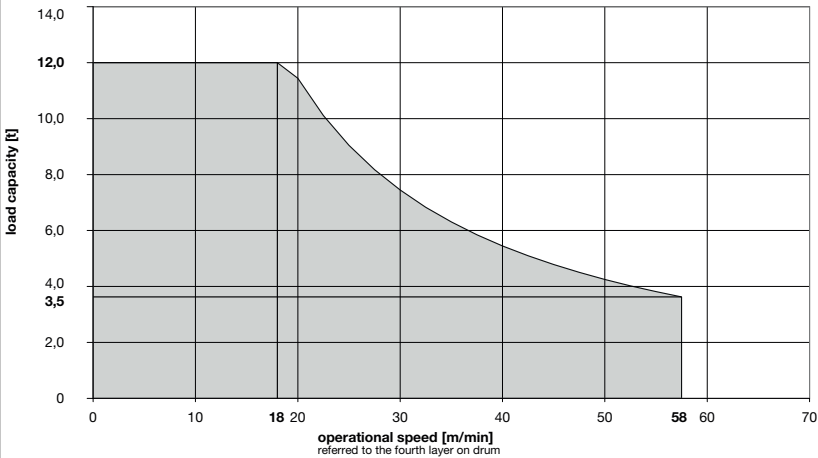
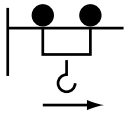
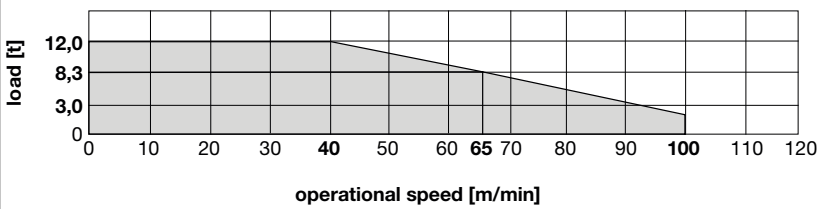


HH		Crane in service			Crane out of service			Assembly		
4	2	Slewing torque: 360 kNm			Wind category C25			M	V	H
STR	STR	M	V	H	M	V	H	M	V	H
[m]	[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
5.6	6.0	2210	690	25	1470	602	38	2390	326	7
10.1	10.5	2330	708	26	1660	631	44	2430	355	8
14.6	15.0	2470	727	28	1880	659	50	2470	383	9
19.1	19.5	2620	745	29	2130	687	56	2520	411	10
23.6	24.0	2790	763	31	2410	716	63	2580	439	11
28.1	28.5	2980	781	32	2730	744	69	2640	468	13
32.6	33.0	3190	799	34	3080	772	75	2720	496	14
37.1	37.5	3420	818	35	3470	800	81	2800	524	15
41.6	42.0	3680	836	37	3910	829	87	2890	553	16
46.1	46.5	3890	855	43	4390	857	93	3000	581	17
50.6	51.0	4170	983	45	4910	885	100	3110	609	18
55.1	55.5	4490	1012	46	5580	951	145	3230	638	19
59.6	60.0	4840	1040	48	6570	980	155	3370	666	20
64.1	64.5	5230	1068	50	7670	1008	166	3520	694	21
68.6	69.0	5520	1026	49	8020	965	162	3590	652	21
69.6	70.0	5530	1053	51	8180	993	167	3600	679	21
74.1	74.5	5890	1098	53	9320	1037	178	3740	724	23
78.6	79.0	6280	1137	55	10560	1077	190	3890	763	24
83.1	83.5	6700	1177	57	11920	1116	202	4050	802	25
85.4	85.8	6780	1223	59	12460	1162	210	4100	849	26
89.9	90.3	7250	1262	61	14000	1202	222	4280	888	27
Tower combination with base tower element BT 29										
89.8	90.2	7100	1285	62	13890	1225	225	4240	911	28
94.3	94.7	7540	1332	64	15460	1271	239	4420	958	29
98.8	99.2	8010	1378	67	17170	1318	253	4610	1004	31



Caption:


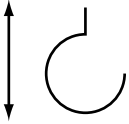
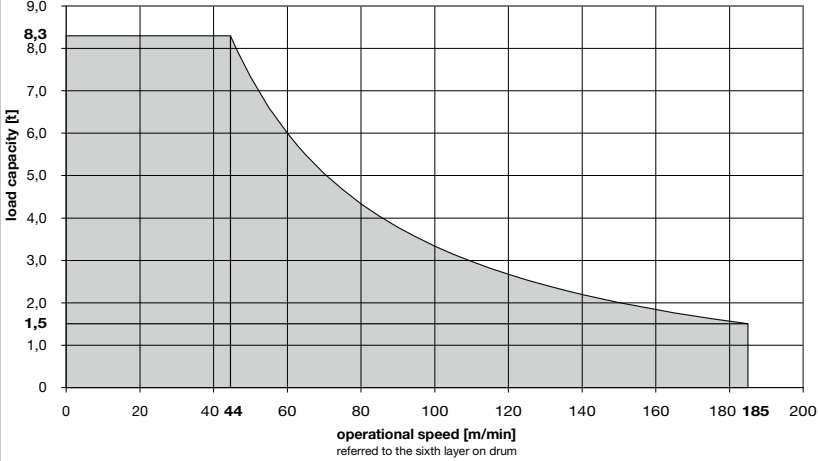

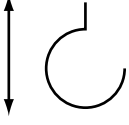
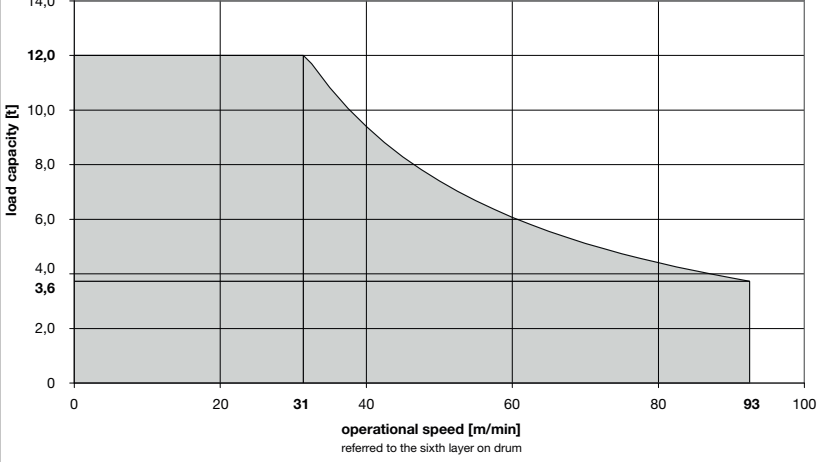
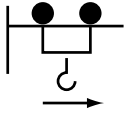
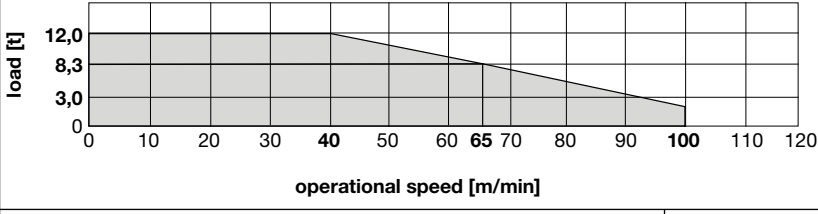


HH:	Hook height	V:	Vertical load	STR:	Number of falls
H:	Horizontal load	M:	Torque		

5 Operating speeds

Drive unit [type]	Operating speed Carrying load		Hook travel distance max. [m]	Power [kW]	Total connected wattage [kVA]
Hw845FU	Lifting		190	45	62.0 Total connected load at coincidence factor of 0.7
	 <p>operational speed [m/min] referred to the fourth layer on drum</p>				
	Lifting		95		
	 <p>operational speed [m/min] referred to the fourth layer on drum</p>				
KW	Trolley movement			7.5	
	 <p>operational speed [m/min]</p>				
SG	Slewing			1 x 7.5	

5 Operating speeds





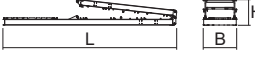



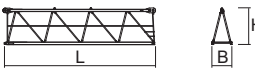

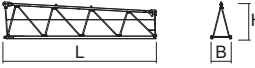

Drive unit [type]	Operating speed Carrying load	Hook travel distance max. [m]	Power [kW]	Total connected wattage [kVA]
	 <p>Operating speed 0,80 [min⁻¹]</p>			<p>62.0</p> <p>Total connected load at coincidence factor of 0.7</p>


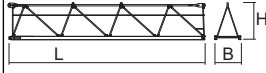
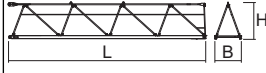




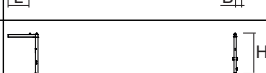
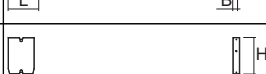
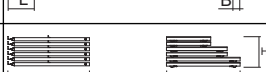


Drive unit [type]	Operating speed Carrying load		Hook travel distance max. [m]	Power [kW]	Total connected wattage [kVA]
Hw875FU	Lifting		460	75	90.0 Total connected load at coincidence factor of 0.7
	 <p>operational speed [m/min] referred to the sixth layer on drum</p>				
	Lifting		230		
	 <p>operational speed [m/min] referred to the sixth layer on drum</p>				
KW	Trolley movement		7.5		
	 <p>operational speed [m/min]</p>				
SG	Slewing		1 x 7.5		
	 <p>Operating speed 0,80 [min⁻¹]</p>				

6 Package list

6 Package list

6.1 Package list 7032.12


Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m³]
1	Tower head section complete, with slewing frame, ball race bearing, slewing gear and slip ring system (brace parts for trolley jib and counterjib)		6.63	2.62	2.32	10940 (340)	40.30
1	Tower head section upper part (brace parts for trolley jib and counterjib)		2.23	0.71	2.20	1775 (340)	3.48
1	Tower head section lower part with slewing frame, ball race bearing, slewing gear and slip ring system		5.27	2.62	2.32	9165	32.03
1	Driver's cab station with driver's cab and control cabinet		4.73	2.12	2.56	2625	25.67
1	Counterjib in hinged position without railings and auxiliary crane, incl. brace (brace parts for counterjib)		11.97	2.30	2.22	10340 (1300)	61.12
1	Hoisting gear Hw 845 FU without 2nd brake and hoisting rope (2nd brake) (270 m hoisting rope)		1.69	1.72	1.04	2070 (648) (340)	4.45
1	Hoisting gear Hw 875 FU without 2nd brake and hoisting rope (2nd brake) (270 m hoisting rope)		1.95	1.68	1.23	2235 (648) (340)	4.03
1	Jib element 1		10.30	1.41	2.54	3920	36.89
1	Jib element 2		10.32	1.40	2.50	2380	36.12
1	Jib element 3		5.31	1.40	2.49	1035	18.51
1	Jib element 4		10.26	1.40	2.46	1740	35.34
1	Jib element 5		5.23	1.40	1.92	810	14.06

Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m³]
1	Jib element 6		2.73	1.40	1.92	510	7.34
1	Jib element 7		10.22	1.40	1.92	1370	27.47
1	Jib element 8		10.15	1.40	1.91	1000	27.14
1	Jib element 9		10.16	1.40	1.91	760	27.17
1	Rope swivel crossbeam		0.99	1.35	0.43	145	0.58
1	Trolley LK 8/12		1.87	2.10	1.13	390	4.44
1	Maintenance cage		0.75	0.50	1.70	52	0.64
1	Hook block U 8/16 AU		1.02	0.27	1.84	550	0.51
1	Auxiliary crane		2.29	0.41	3.46	235	3.25
7	Counterweight blocks		1.41	0.36	2.30	2700	1.17
1	Standard railings		1.10	2.20	1.00	420	2.42
1	Box (small parts)		0.63	0.50	0.38	100	1.12

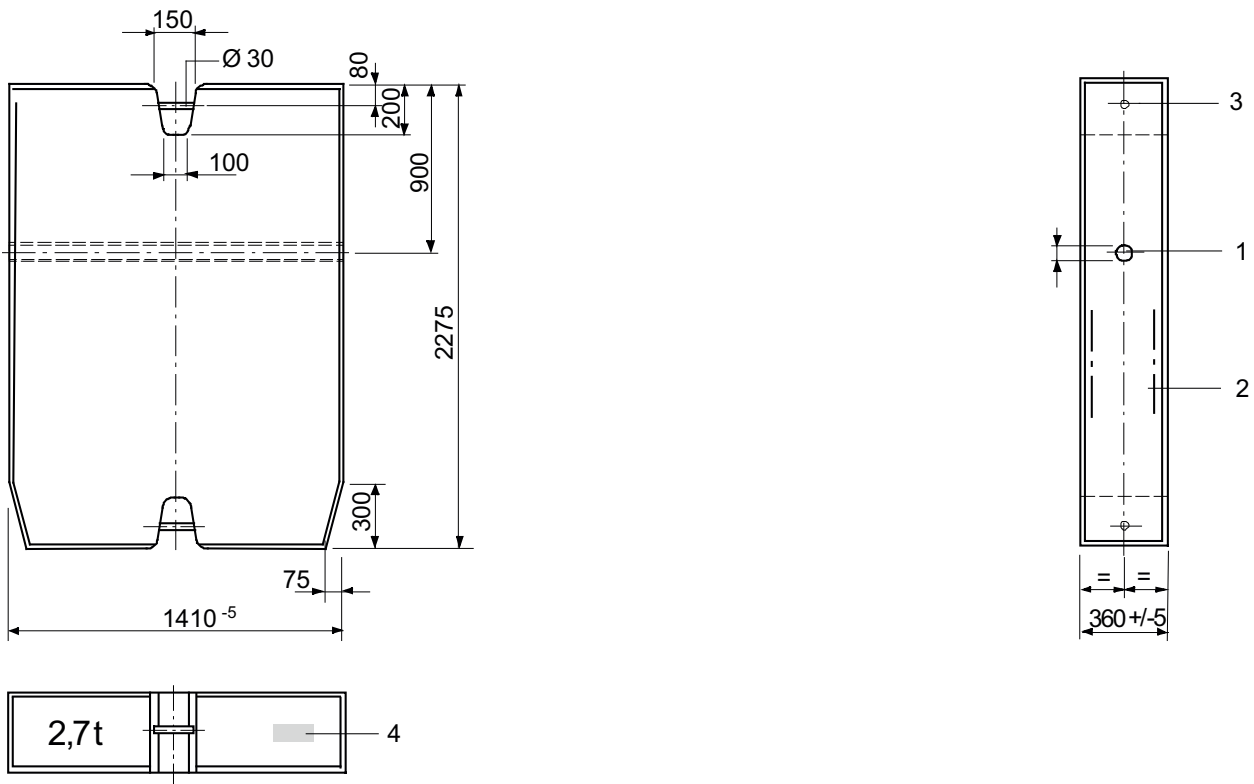
7 Assembly weights

7 Assembly weights

7.1 Counterweight blocks

	NOTICE
	The described diagrams of the concrete counterweights and central ballast blocks only show sketches. Have them issue the reinforcement charts by experts.

7.1.1 Counterweight block, 2.7 t



Data counterweight block 2.7 t

Item	Data
Material	Concrete, min. C 20/25
Max. permitted weight tolerance	+/- 3 %
Order number	30021887
1	Connection for stub shaft (Ø 40x 215 Item no.: 30024871)
2	Structural steel reinforcement
3	Suspension
4	Component identifier

7 Assembly weights

7.2 Total weight jib assembly

Trolley jib, complete: trolley, trolley ropes, snatch block and rope swivel crossbeam

Jib length [m]	Weight [kg] WOLFF 7032.12 clear
70.0	14320
67.5	14020
65.0	13510
62.5	13450
60.0	13560
57.5	13260
55.0	12750
52.5	12690
50.0	12550
47.5	12250
45.0	11740
42.5	11680
40.0	11170
37.5	10870
35.0	10360
32.5	9830
30.0	9320
27.5	8470
25.0	7960

7.3 Assembly weight slewing section

Module	Crane parts	Weight [kg]
Tower head section, complete with driver's cab and driver's cab suspension		13605
Tower head section, complete		10980
	▪ Upper tower head section	1775
	▪ Slewing frame	5360
	▪ Tower head section lower part	3630
	▪ Ladder and connections to slewing frame	175
	▪ standard railings and standard posts	40
Driver's cab		2625
Counterjib, complete with auxiliary crane, braces, standard railings and platforms		10865
	▪ Counterjib	9040
	▪ Platforms and standard railings	290
	▪ Auxiliary crane	235
	▪ Counter jib brace	1300
Hoist winch frame Hw 845 FU complete with 2nd brake and 270 m hoisting rope		3058
	▪ Hoist winch platform Hw 845 FU	2070
	▪ 2nd brake incl. platform and standard railings	648
	▪ Hoisting rope Ø 16 mm x 270 m	340
Hoist winch frame Hw 875 FU complete with 2nd brake and 270 m hoisting rope		3223
	▪ Hoist winch platform Hw 875 FU	2235
	▪ 2nd brake incl. platform and standard railings	648
	▪ Hoisting rope Ø 16 mm x 270 m	340

7 Assembly weights

7.4 Assembly weight cross frame

Module	Crane parts	Weight [kg]
Cross frame KR 10-46 (without accessories)		7020
(4.6 m x 4.6 m)	▪ 4 bolted spigots AZR 120 E 15.5	552
	▪ 4 bolted spigots AZ 140 M	698
Cross frame KR 16 - 46/ 60 (without accessories)		8875
(6.0 m x 6.0 m)	▪ 4 bolted spigots AZR 120 E 15.5	552
	▪ 4 bolted spigots AZ 140 M	698
Cross frame KRV 10-60 (without accessories)		9990
(6.0 m x 6.0 m)	▪ AZ 140 M KRV 10-60	745
	▪ AZ 120 E 15,5 KRV 10-60	685
	▪ AZ 140 M for KRV 10-60	745
	▪ AZ 140 E 10 KRV 10-60	745
Cross frame KR 12-60 (without accessories)		15650
(6.0 m x 6.0 m)	▪ AZ 140 M KR 12-60/80	790
	▪ AZ 120 E15,5 KR 12-60/80	730
	▪ AZ 140 E17 KR 12-60/80	875
	▪ AZ 160 M KR 12-60/80	905
	▪ AZ 140 E 10 KR 12-60/80	790
	▪ AZ 156 M KR 12-60/80	845
Cross frame KR 12-60/ 80 (without accessories)		19260
(8.0 m x 8.0 m)	▪ AZ 140 M KR 12-60/80	790
	▪ AZ 120 E15,5 KR 12-60/80	730
	▪ AZ 140 E17 KR 12-60/80	875
	▪ AZ 160 M KR 12-60/80	905
	▪ AZ 140 E 10 KR 12-60/80	790
	▪ AZ 156 M KR 12-60/80	845
Cross frame KR 16-80 (without accessories)		21450
(8.0 m x 8.0 m)	▪ 4 bolted spigots AZ 140 E KR 16-80	620
	▪ 4 bolted spigots AZ 156 M KR 16-80	680
	▪ 4 bolted spigots AZ 156S M KR 16-80	675
Cross frame KR 16-80/ 100 (without accessories)		25400
(10.0 m x 10.0 m)	▪ 4 bolted spigots AZ 140 E KR 16-80	620
	▪ 4 bolted spigots AZ 156 M KR 16-80	680
	▪ 4 bolted spigots AZ 156S M KR 16-80	675

7.5 Assembly weights traveling cross frame

Module	Crane parts	Weight [kg]	
Mobile cross frame KRF 10 – 46/60 complete			17500
(6.0 m x 6.0 m)	▪ Cross frame	7000	
	▪ Drive gear corners	2385	
	▪ Backing braces	1510	
	▪ Subframe	5645	
	▪ Platforms + ladders	510	
	▪ Control cabinet	130	
	▪ small items	320	
	▪ Set of bolted spigots AZR 120 E 15,5 KRF 10-46/60	605	
	▪ Set of bolted spigots AZR 140 M KRF 10-46/60	760	
Traveling cross frame KRF4 12-60/80 complete			32300
(8.0 m x 8.0 m)	▪ Cross frame	14170	
	▪ Backing braces	2875	
	▪ Drive gear corners	4560	
	▪ Subframe	9380	
	▪ Platforms and ladders	255	
	▪ Control cabinet	130	
	▪ small items	930	
	▪ Set of bolted spigots AZR 140 M KR 12-60/80	790	
	▪ Set of bolted spigots AZ 120 E 15,5 KR 12-60/80	730	
	▪ Set of bolted spigots AZ 140 E 15,5 KR 12-60/80	875	
	▪ Set of bolted spigots AZR 160 M KR 12-60/80	905	
	▪ Set of bolted spigots AZ 140 E 10 KR 12-60/80	790	
	▪ Set of bolted spigots AZR 156 M KR 12-60/80	845	
Traveling cross frame KRF6 12-60/80 complete			41200
(8.0 m x 8.0 m)	▪ Cross frame	14170	
	▪ Backing braces	2875	
	▪ Drive gear corners	4560	
	▪ Subframe	18270	
	▪ Platforms and ladders	255	
	▪ Control cabinet	130	
	▪ small items	940	
	▪ Set of bolted spigots AZR 140 M KR 12-60/80	790	

7 Assembly weights

Module	Crane parts	Weight [kg]
	▪ Set of bolted spigots AZ 120 E 15,5 KR 12-60/80	730
	▪ Set of bolted spigots AZ 140 E 15,5 KR 12-60/80	875
	▪ Set of bolted spigots AZR 160 M KR 12-60/80	905
	▪ Set of bolted spigots AZ 140 E 10 KR 12-60/80	790
	▪ Set of bolted spigots AZR 156 M KR 12-60/80	845

7.6 Assembly weight cross frame elements

Module	Crane part	Weight [kg]	
Cross frame element KRE 260.2, complete			10 900
	▪ Mast base with diagonal struts and tie rods	5 445	
	▪ Cross frame platform with jibs, corner plates and transport locks	5 455	
Cross frame element KRE 480 complete			24 250
	▪ Mast base	7 100	
	▪ Hinged sections with corner plates	6 250	
	▪ Diagonal struts and ballast carrier	9 260	
	▪ Assembly platform, ladder, and small parts	1 640	

7 Assembly weights

7.7 Assembly weight undercarriage

Module	Crane part	Weight [kg]	
Undercarriage UW 260.2, complete			14 060
	▪ Mast base with diagonal struts and tie rods	4 250	
	▪ Undercarriage platform with hinged sections, subframes and transport locks	9 810	
Undercarriage UW 260.3, complete			17 100
	▪ Mast base with diagonal struts and tie rods	5 880	
	▪ Undercarriage platform with hinged sections, subframes and transport locks	11 220	
Undercarriage UW 480, complete			34 000
	▪ Mast base	7 100	
	▪ Hinged sections with mounting device and subframes	16 000	
	▪ Diagonal struts and ballast carrier	9 260	
	▪ Assembly platform, ladder, and small parts	1 640	

7.8 Assembly weights city portal

Module	Crane parts	Weight [kg]	
City portal CP 520, complete (without bolted spigots)			13335
(5.24 m x 5.24 m)	▪ Cross frame (without accessories)	7000	
	▪ City Portal undercarriage	6335	
	▪ small items	425	
	▪ 4 bolted spigots AZ 120 E 15.5	560	
	▪ 4 bolted spigots AZ 140 M	684	
City portal CP 690, complete (without bolted spigots)			24735
(6.92 m x 6.92 m)	▪ Cross frame (without accessories)	14200	
	▪ City Portal undercarriage	10535	
	▪ small items	325	
	▪ AZ 140 M KR 12-60/80	790	
	▪ AZ 120 E15,5 KR 12-60/80	730	
	▪ AZ 140 E17 KR 12-60/80	875	
	▪ AZ 160 M KR 12-60/80	905	
	▪ AZ 140 E 10 KR 12-60/80	790	
	▪ AZ 156 M KR 12-60/80	845	

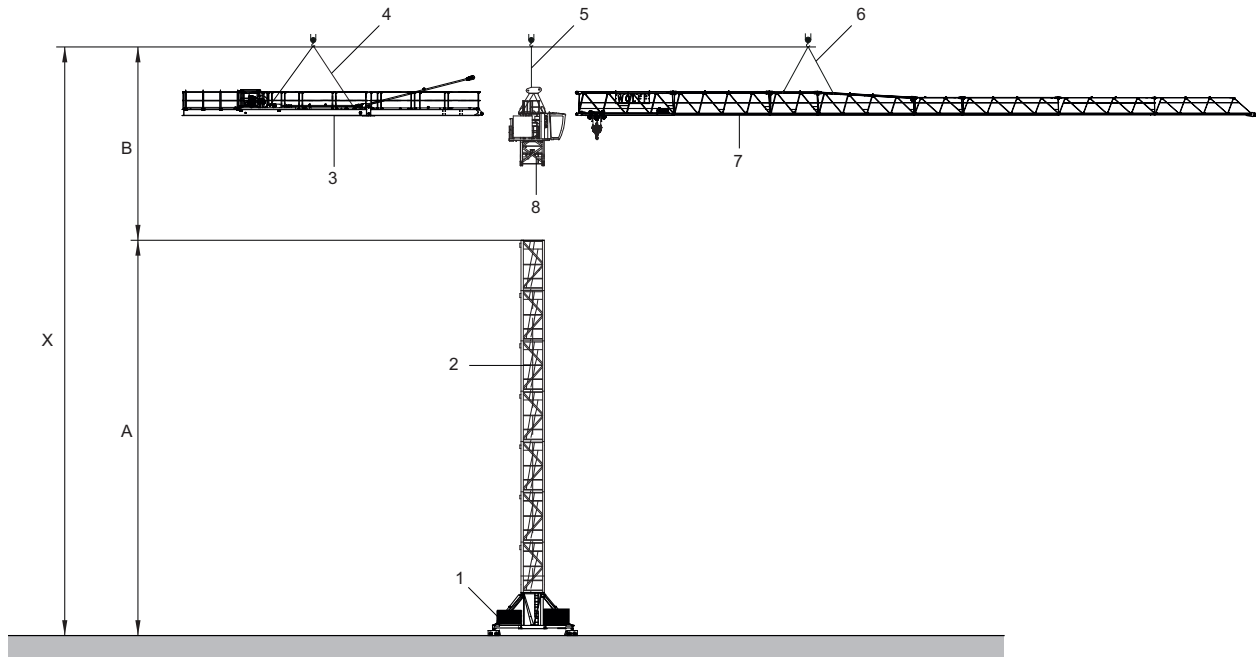
7 Assembly weights

7.9 Required hook height for mobile cranes

For information about the height of the WOLFF slewing tower crane, refer to Tower combinations [11].

NOTICE! During assembly, allowances must be made for level differences (mobile crane to base of the slewing tower crane).

Hook height above ground required for mobile cranes (X) = height of the WOLFF slewing tower crane (A) + clearance of 12 m (B).



Exemplary illustration


[A]	Height of the WOLFF slewing tower crane	[B]	Clearance 12 m
[X]	Hook height above ground required for the mobile crane		
1	Undercarriage	5	Single-point lifting tackle (2 m with shackle)
2	Tower element	6	4-fall attachment (4 m with shackle)
3	Counterjib, complete	7	Jib, complete
4		8	Tower head section, complete


(see also):

- Tower combinations [11]

8 Assembly diagrams

8.1 Jib attachment diagram

	NOTICE
	<p>Use of a wind sail.</p> <p>Use a wind sail for jib lengths of 25 m and 27,5 m. Please contact WOLFFKRAN for information.</p>

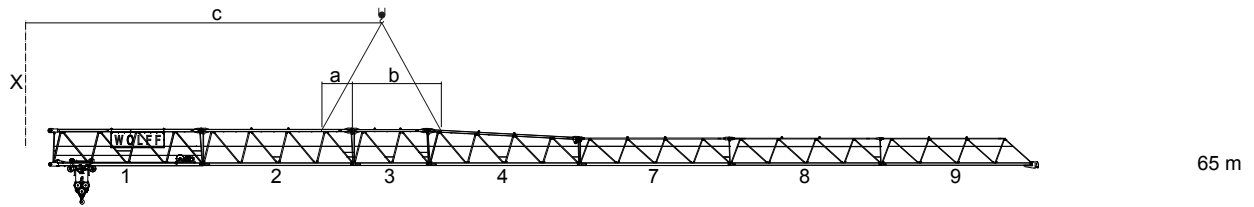
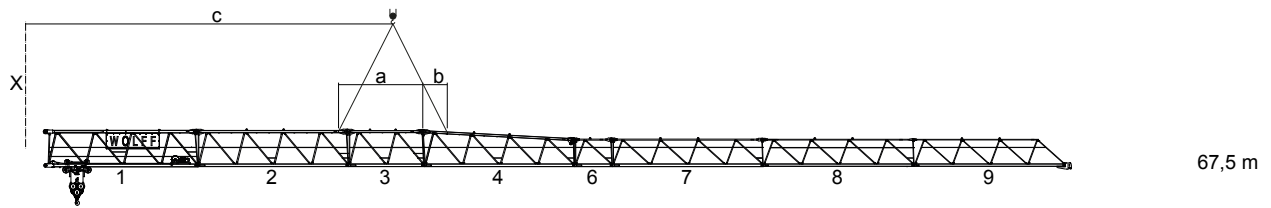
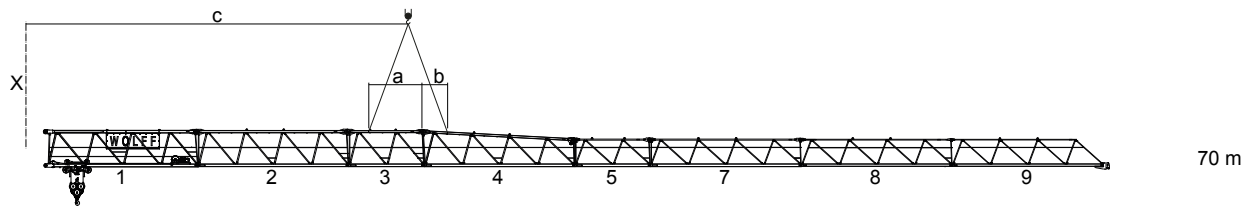
	NOTICE
	<p>For jib assembly, use a 4-fall attachment (4 m with shackle).</p>

Length of jib elements

Item	Length [m]
Jib element 1, 2, 4, 7, 8, 9	10.0
Jib element 3, 5	5.0
Jib element 6	2.5

8 Assembly diagrams

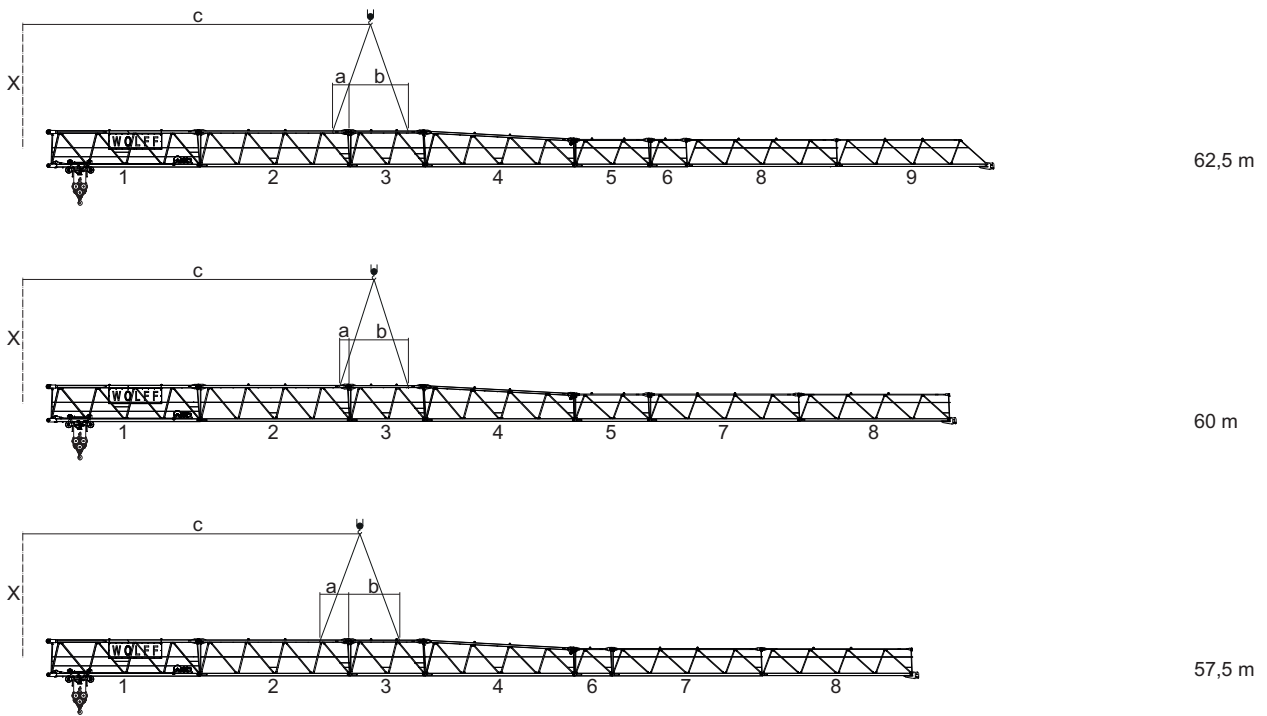
8.1.1 Trolley jib - attachment diagram 70 m to 65 m



a	Dimension a	b	Dimension b
c	Dimension c	X	Middle of tower

Data	Jib length [m]		
	70	67.5	65
a [m]	3.68	5.58	1.98
b [m]	1.70	1.70	5.97
c [m]	25.08	24.12	23.06
Weight [kg]	14210	13910	13400

8.1.2 Trolley jib - attachment diagram 62.5 m to 57.5 m

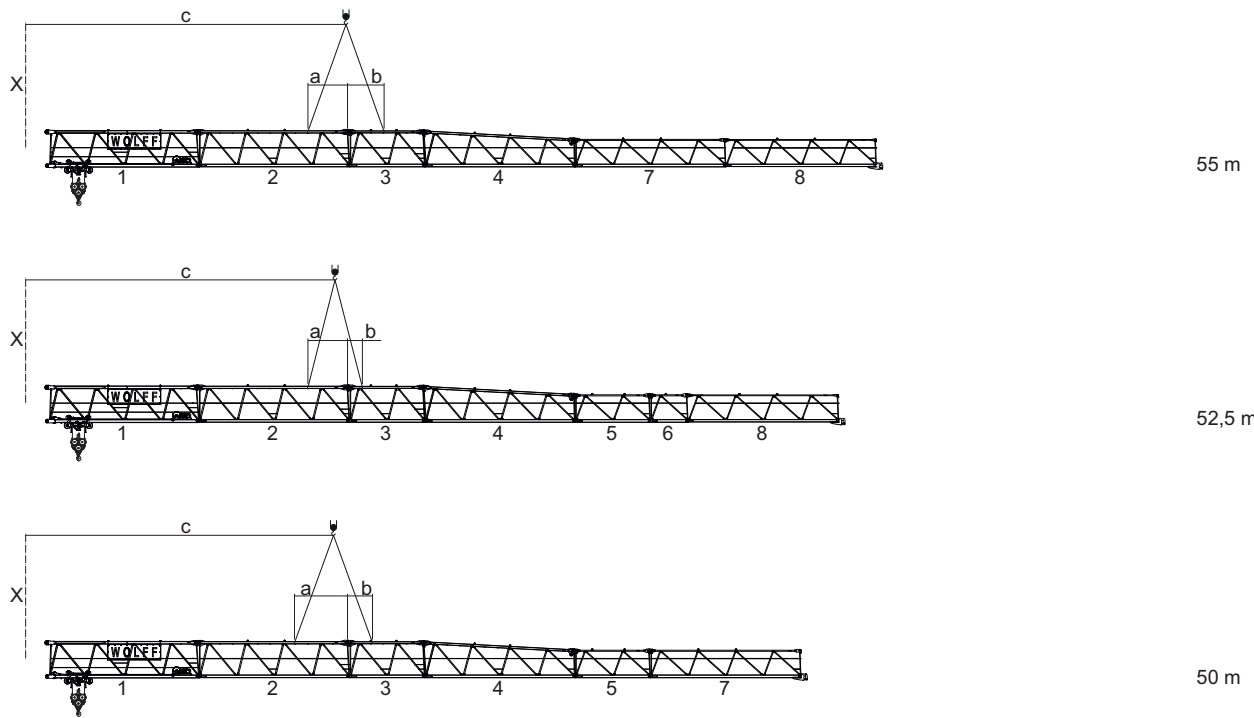


a	Dimension a	b	Dimension b
c	Dimension c	X	Middle of tower

Data	Jib length [m]		
	62.5	60	57.5
a [m]	1.15	0.58	1.98
b [m]	3.99	3.99	3.47
c [m]	22.49	22.77	21.81
Weight [kg]	13340	13450	13150

8 Assembly diagrams

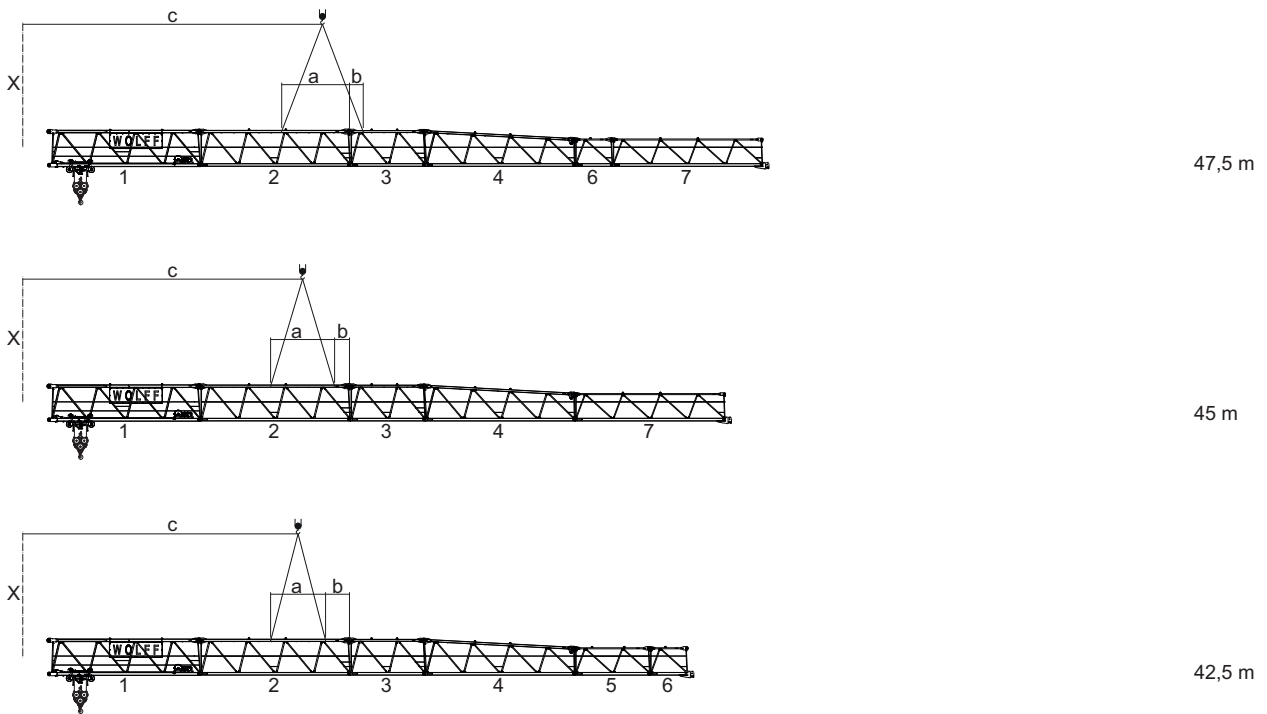
8.1.3 Trolley jib - attachment diagram 55 m to 50 m



a	Dimension a	b	Dimension b
c	Dimension c	X	Middle of tower

Data	Jib length [m]		
	55	52.5	50
a [m]	2.80	2.80	3.63
b [m]	2.45	0.97	1.69
c [m]	20.89	20.15	20.10
Weight [kg]	12640	12580	12440

8.1.4 Trolley jib - attachment diagram 47.5 m to 42.5 m

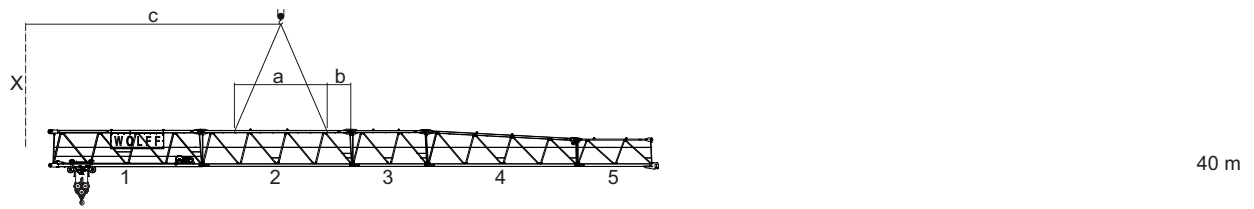


a	Dimension a	b	Dimension b
c	Dimension c	X	Middle of tower

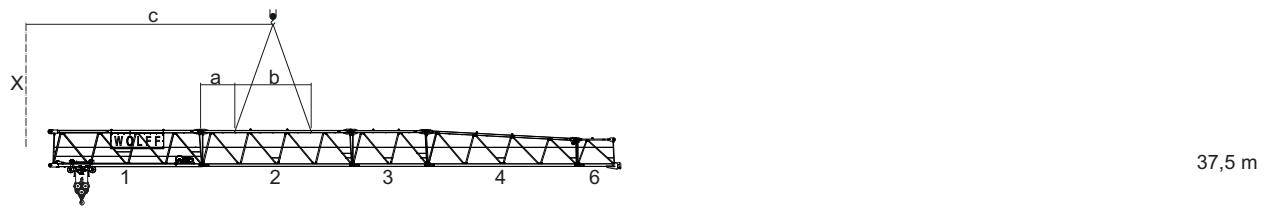
Data	Jib length [m]		
	47.5	45	42.5
a [m]	4.48	4.40	3.77
b [m]	0.97	0.90	1.53
c [m]	19.31	17.97	17.65
Weight [kg]	12140	11630	11570

8 Assembly diagrams

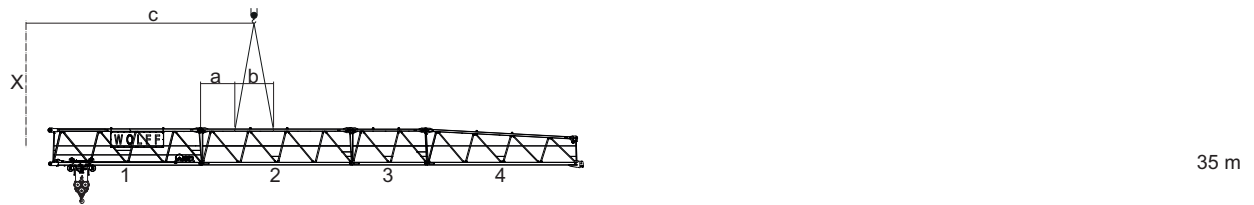
8.1.5 Trolley jib - attachment diagram 40 m to 35 m



40 m



37,5 m

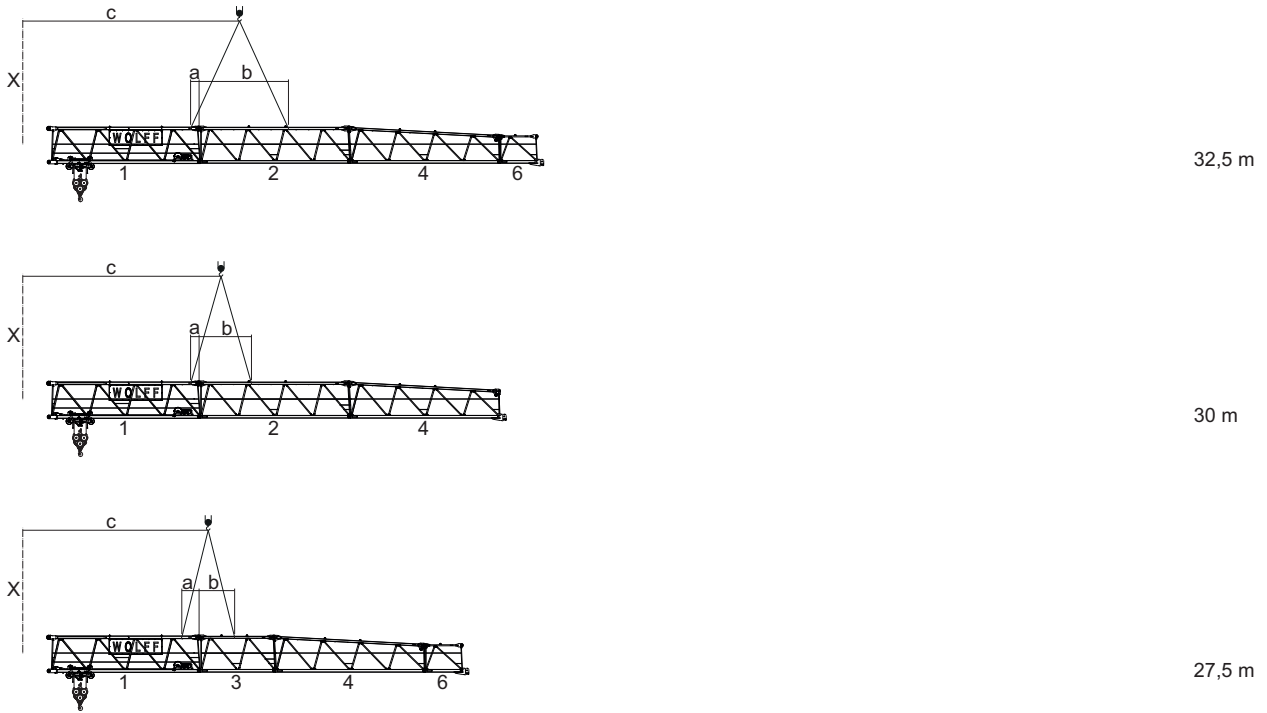


35 m

a	Dimension a	b	Dimension b
c	Dimension c	X	Middle of tower

Data	Jib length [m]		
	40	37.5	35
a [m]	6.27	2.20	2.20
b [m]	1.53	5.25	2.75
c [m]	16.40	15.89	14.64
Weight [kg]	11060	10760	10250

8.1.6 Trolley jib - attachment diagram 32.5 m to 27.5 m

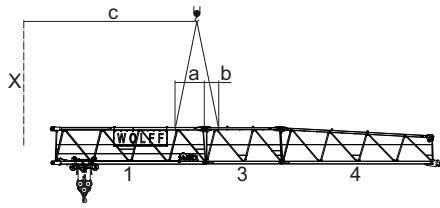


a	Dimension a	b	Dimension b
c	Dimension c	X	Middle of tower

Data	Jib length [m]		
	32.5	30	27.5
a [m]	0.54	0.54	1.24
b [m]	5.97	3.52	2.45
c [m]	13.78	12.56	11.67
Weight [kg]	9720	9210	8360

8 Assembly diagrams

8.1.7 Trolley jib - attachment diagram 25 m

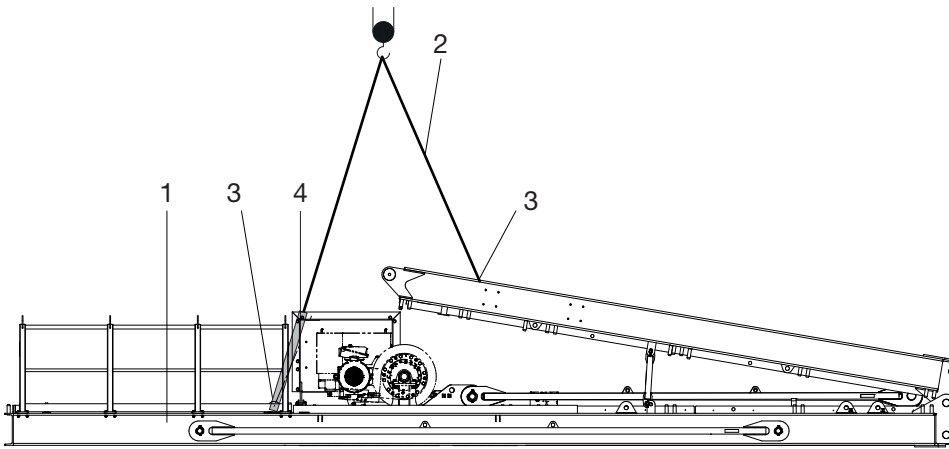


25 m

a	Dimension a	b	Dimension b
c	Dimension c	X	Middle of tower

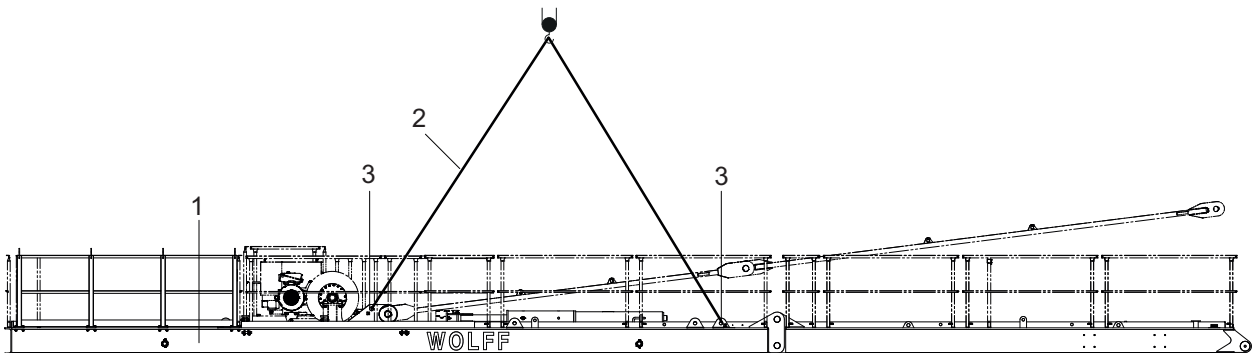
Data	Jib length [m]		
	25		
a [m]	1.98		
b [m]	0.97		
c [m]	10.56		
Weight [kg]	7850		

8.2 Counterjib lifting diagram



Lifting eyes for transport position marked with "2"

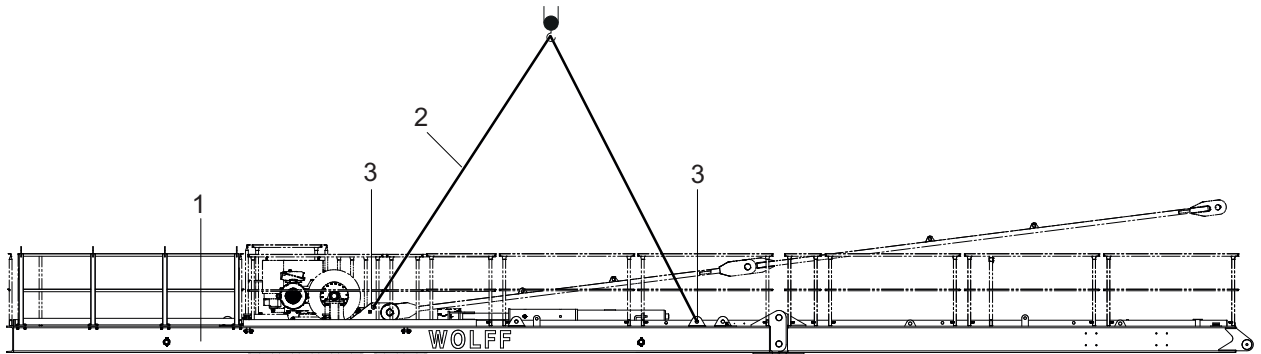
1	Counterjib in hinged position with hoisting gear	3	Lifting eyes
2	Four-fall attachment (4 m with shackle)	4	Attachment extension (attachment rope ; with shackle and sling, order-no.: 10031510)



Lifting eyes for up to 500 m hoisting rope on drum marked with "1"

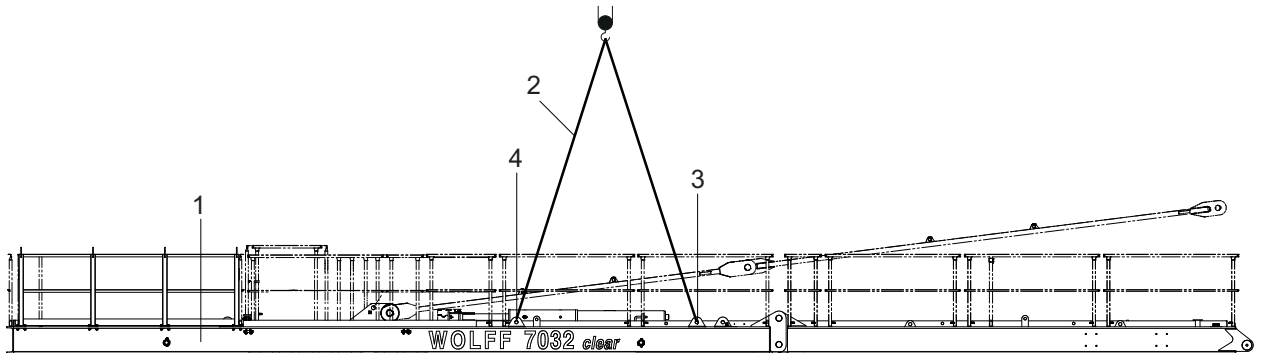
1	Counterjib with hoisting gear	3	Lifting eyes
2	Four-fall attachment (4 m with shackle)		

8 Assembly diagrams



Lifting eyes for more than 500 m hoisting rope on drum marked with "3"

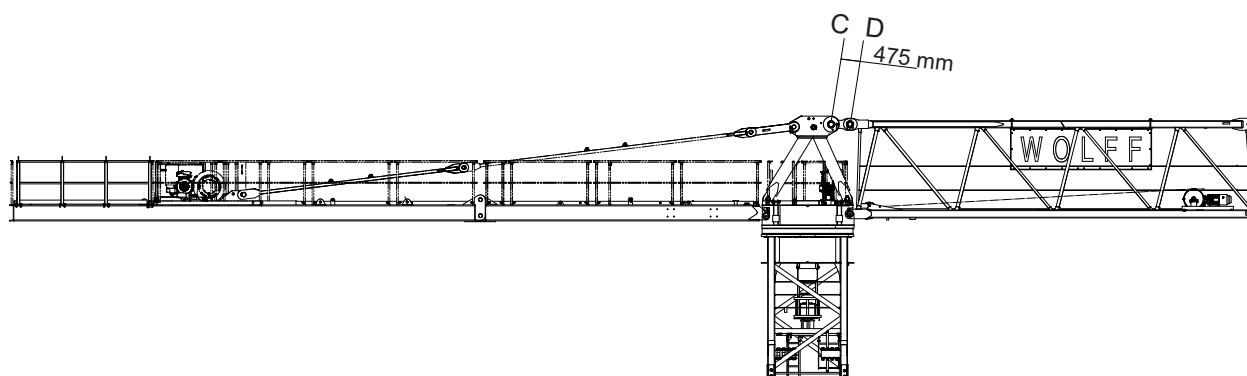
1	Counterjib with hoisting gear	3	Lifting eyes
2	4-fall attachment (4 m with shackle)		



Counterjib lifting diagram: counterjib without mounted hoisting gear

1	Counterjib without hoisting gear	3	Lifting eye marked with "3"
2	Four-fall attachment (4 m with shackle)	4	Lifting eye not marked

8.3 Jib brace diagram

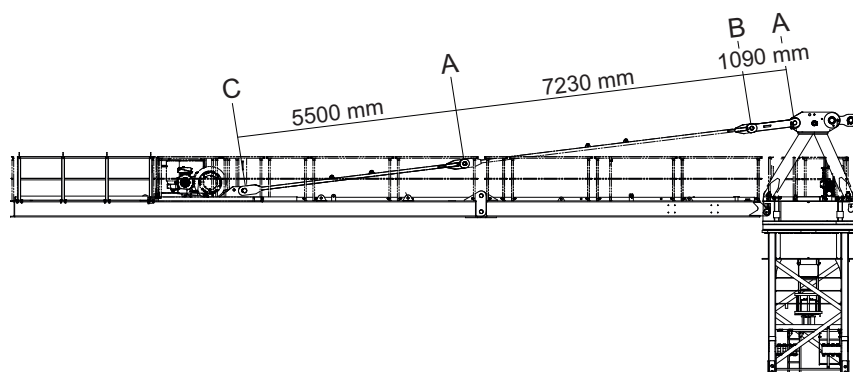


Bolt table

Jib length	Item	Bolts		Fuse	
		Quantity	Dimension [mm]	Quantity	Dimension [mm]
All	C	1	Ø 135 x 610	2	Washer Ø 180 / 136 x 4
				2	Cotter pin 16 x 160
				1	Distance bush Ø 152,4 / 135,2 x 270
	D	1	Ø 120 x 460	2	Washer Ø 180 / 121 x 4
				2	Locking pin 20x150

8 Assembly diagrams


8.4 Counterjib brace diagram



Bolt table

Bolts			Fuse	
Ref.	Quantity	Dimension [mm]	Quantity	Dimension [mm]
A	4	Ø 95 / 80 x 210	4	Locking pin 10 x 100
B	2	Ø 95 / 80 x 210	2	Locking pin 10 x 100
			4	Washer Ø 130 / 81 x 4
C	2	Ø 110 / 90 x 215	2	Locking pin 17 x 125

8.5 Trolley jib mounting rig

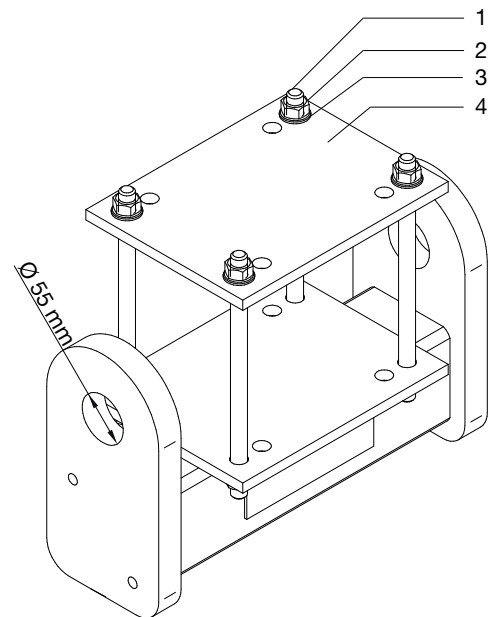
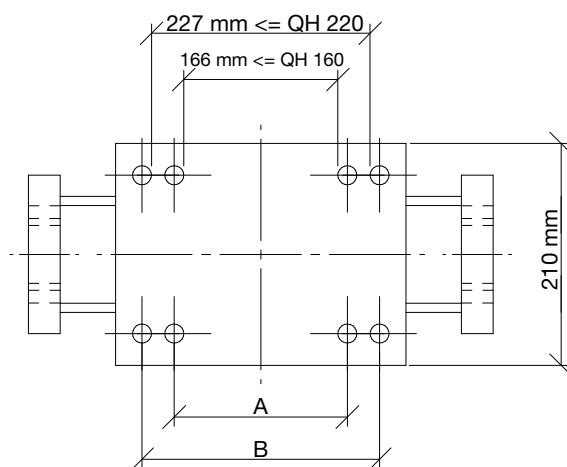
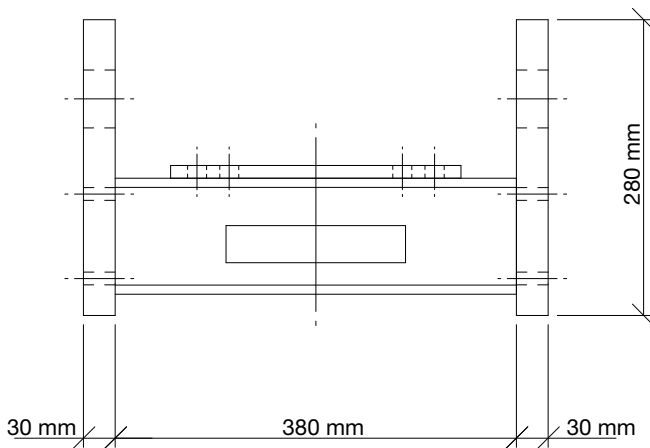
	NOTICE
	<p>For information on the arrangement of the mounting rig, refer to the attachment diagram.</p> <p>Two mounting rigs are required per slewing tower crane.</p>

Elements required for each mounting rig

Mounting rig

Ref.	Quantity	Item	Dimensions
1	4	Hexagonal head screw	M16x270-8.8 ISO 4017
2	8	Hexagonal nut	M16-8 ISO 4032
3	8	Washer	A16-200HV ISO 7090
4	1	Flange plate	12x210x295

Mounting rig



A	184 mm	B	245 mm
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8 Assembly diagrams

For mounting the screws (1) choose the pair of holes (A or B) in dependence to the profile of the top boom.

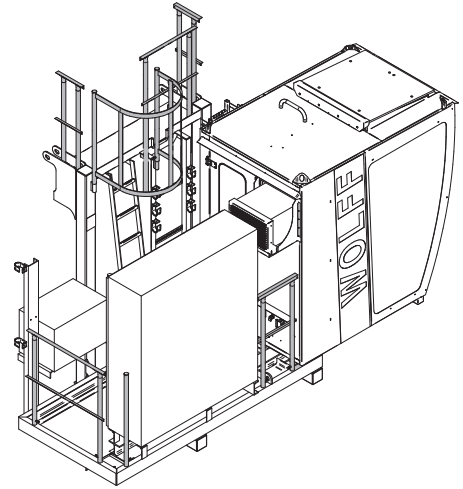
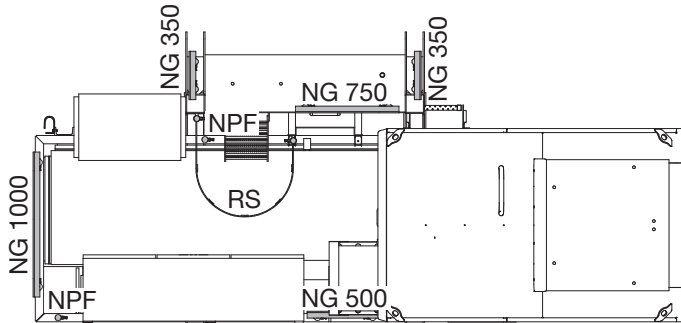
8.6 Arrangement of standard railings

8.6.1 Standard railings (NG) and accessories

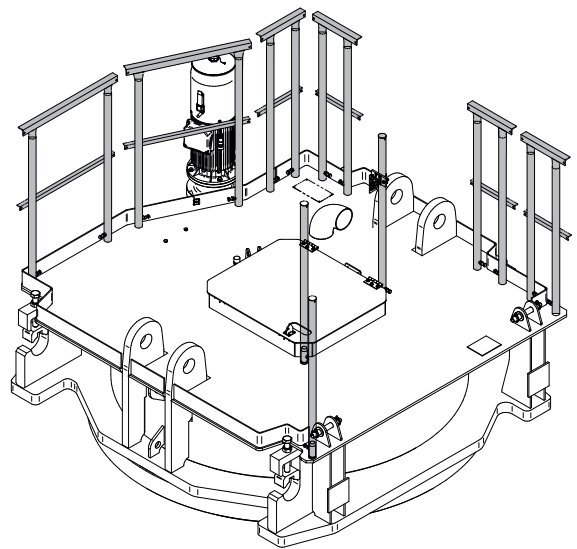
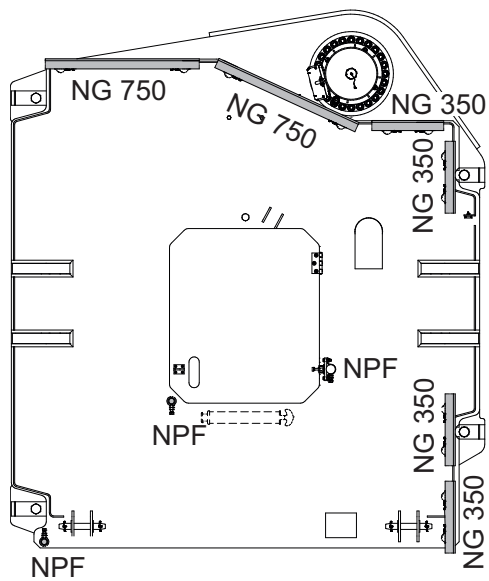
Quantity	Standard railings (NG)
1	Support block (A)
1	Flagpole holder (F)
8	Standard posts (NPF)
1	Hoop guard (RS)
11	Standard railing 350
4	Standard railing 500
5	Standard railing 750
4	Standard railing 1000
1	Standard railing 1500
12	Standard railing 2000

8 Assembly diagrams

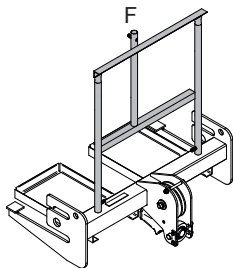
8.6.2 Arrangement of standard railings



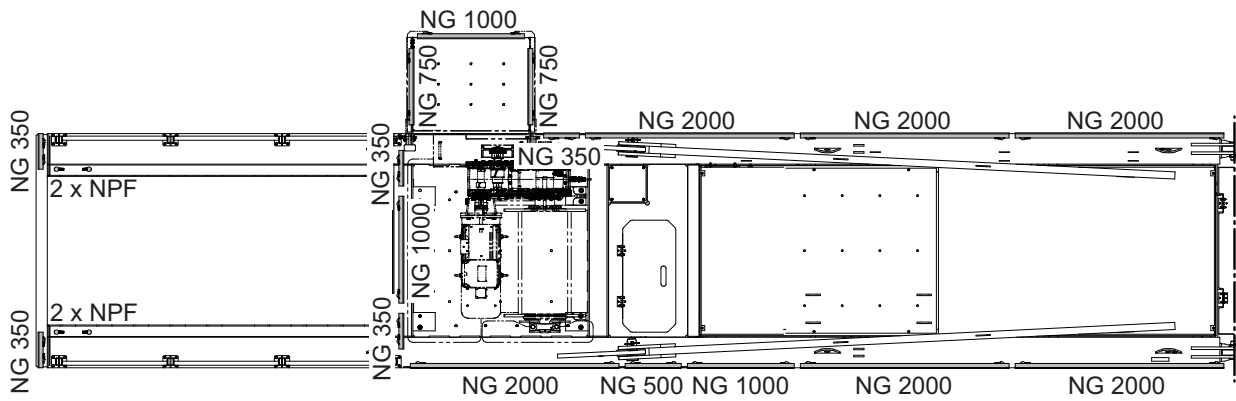
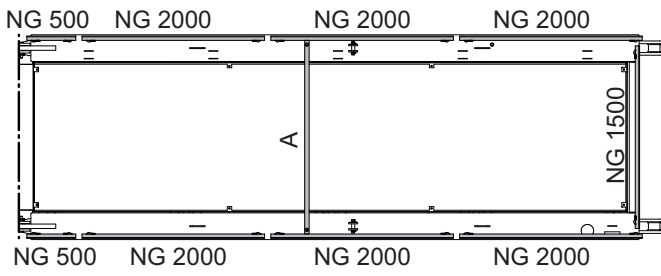
Standard railings at the driver's cab station



Standard railings at slewing frame



Flag pole mount at rope swivel crossbeam






Standard railings at counterjib part 1 (above) and 2 (below)

9 Suitable climbing devices



9 Suitable climbing devices

This section contains information on

- Outer climbing devices (KWH)
- Inner climbing devices (KSH)

	<p style="text-align: center;">NOTICE</p> <p>Details on the climbing device Always refer to the details in the documentation of the climbing device.</p>
	<p style="text-align: center;">NOTICE</p> <p>The operating radius specified is measured from the tower center and is to be considered a reference value. Exact balancing can be achieved by changing the operating radius with the tower elements or loads specified in the table.</p>
	<p style="text-align: center;">NOTICE</p> <p>If feasible, preferably operate your climbing device without balancing weight.</p>

9.1 Outer climbing devices

	<p style="text-align: center;">! DANGER</p> <p>Climbing device attached to the lower part of the tower head section lower part.</p> <p>Increased wind surface. The slewing tower crane may overturn.</p> <ul style="list-style-type: none">▶ Dismantle the climbing device after the climbing procedure is finished or lower the climbing device down on the ground or lower the climbing device down to the uppermost tower brace.
	<p style="text-align: center;">NOTICE</p> <p>Tower element on the transfer carriage</p> <p>The data on climbing balance was specified under the assumption that a tower element is on the transfer carriage.</p>

9 Suitable climbing devices

9.1.1 Outer climbing device KWH 20.3 / KWH 20.3.1

Climbing radius [m] for the balancing weights

7032.12	Jib length [m]						
	70	67.5	65	62.5	60	57.5	55
no weight	-	-	-	-	-	-	-
UV 20 = 2.05 t	19.1	24.3	21.1	23.9	22.4	28.5	23.5
TV 20 = 2.98 t	13.5	17.5	15.1	17.2	16.0	20.7	16.9
Weight = 5.0 t	8.6	11.3	9.6	11.1	10.3	13.4	10.8

Climbing radius [m] for the balancing weights

7032.12	Jib length [m]					
	52.5	50	47.5	45	42.5	40
no weight	-	-	-	-	-	-
UV 20 = 2.05 t	25.7	28.1	33.4	35.4	-	-
TV 20 = 2.98 t	18.6	20.5	24.5	26.1	27.2	25.6
Weight = 5.0 t	12.0	13.2	15.9	17.0	17.7	16.7

Climbing radius [m] for the balancing weights

7032.12	Jib length [m]					
	37.5	35	32.5	30	27.5	25
no weight	-	-	-	-	-	-
UV 20 = 2.05 t	-	-	-	-	-	-
TV 20 = 2.98 t	27.5	28.6	-	-	-	-
Weight = 5.0 t	17.9	18.6	17.3	19.2	20.5	18.2

9.1.2 Outer climbing device KWH 20.6 / KWH 20.6.1 / KWH 20.6.2

Climbing radius [m] for the balancing weights

7032.12	Jib length [m]						
	70	67.5	65	62.5	60	57.5	55
no weight	-	-	-	-	-	-	-
UV 20 = 2.05 t	18.4	23.6	20.4	23.2	21.6	27.7	22.7
TV 20 = 2.98 t	13.0	17.0	14.5	16.7	15.5	20.2	16.3
Weight = 5.0 t	8.2	10.9	9.3	10.7	9.9	13.0	10.5

Climbing radius [m] for the balancing weights


7032.12	Jib length [m]					
	52.5	50	47.5	45	42.5	40
no weight	-	-	-	-	-	-
UV 20 = 2.05 t	24.9	27.4	32.6	34.7	-	-
TV 20 = 2.98 t	18.0	19.9	23.9	25.5	26.6	25.1
Weight = 5.0 t	11.6	12.8	15.5	16.6	17.3	16.3

Climbing radius [m] for the balancing weights


7032.12	Jib length [m]					
	37.5	35	32.5	30	27.5	25
no weight	-	-	-	-	-	-
UV 20 = 2.05 t	-	-	-	-	-	-
TV 20 = 2.98 t	27.0	28.0	26.0	-	-	-
Weight = 5.0 t	17.6	18.3	16.9	18.8	20.1	17.8

9 Suitable climbing devices

9.2 Inner climbing devices

	NOTICE
	The data required and the instructions for tower assemblies with inner climbing device is available in the separate description of the inner climbing device.

DANGER! Observe the special tower combination for the inner climbing device.

	NOTICE
	Clamping forces for the inner climbing device (KSH) are specified based on a building height of < 250m and wind category C 25.

9.2.1 Inner climbing device KSH 20 SH

Tower combinations for slewing tower cranes with inner climbing device.

Item				
1	UV 20.4	UV 20.4	UV 20.4	UV 20.4
2	UV 20.4	UV 20.4	UV 20.4	UV 20.4
3	UV 20.4	UV 20.4	UV 20.4	UV 20.4
4	UV 20.4	UV 20.4	UV 20.4	UV 20.4
5	UV 20.4	UV 20.4	UV 20.4	UV 20.4
6	UV 20.4	UV 20.4	UV 20.4	UV 20.4
7	UV 20.4	UV 20.4	UV 20.4	UV 20.4
8	TVA 20.4	UV 20.4	UV 20.4	TVA 20.4
9	TV 20.4	TVA 20.4	TVA 20.4	
10	TV 20.4	TV 20.4		
11	TV 20.4			
inner climbing device	KSH 20 SH	KSH 20 SH	KSH 20 SH	KSH 20 SH
Foundation	FUA TYPE FS-156 / FUA 156S	FUA TYPE FS-156 / FUA 156S	FUA TYPE FS-156 / FUA 156S	FUA TYPE FS-156 / FUA 156S
Tower height [m]	64.5	60.0	55.5	51.0
Hook height (2 fall operation) [m]	66.0	61.5	57.0	52.5
Hook height (4 fall operation) [m]	65.6	61.1	56.6	52.1

Climbing radius [m] for the balancing weights – WOLFF 7032.12

7032.12	Jib length [m]				
	70	67.5	65	62.5	60
UV 20.4 = 2.05 t	47.7	52.8	48.3	51.1	49.6
TV 20.4 = 2.98 t	36.7	40.6	37.2	39.3	38.2
Weight = 5.0 t	24.4	27.0	24.8	26.2	25.4
Weight = 8.0 t	-	-	-	-	-

Climbing radius [m] for the balancing weights – WOLFF 7032.12

7032.12	Jib length [m]				
	57.5	55	52.5	50	47.5
UV 20.4 = 2.05 t	-	-	-	-	-
TV 20.4 = 2.98 t	42.8	37.9	39.6	41.5	-
Weight = 5.0 t	28.5	25.3	26.4	27.6	30.3
Weight = 8.0 t	-	-	-	-	-

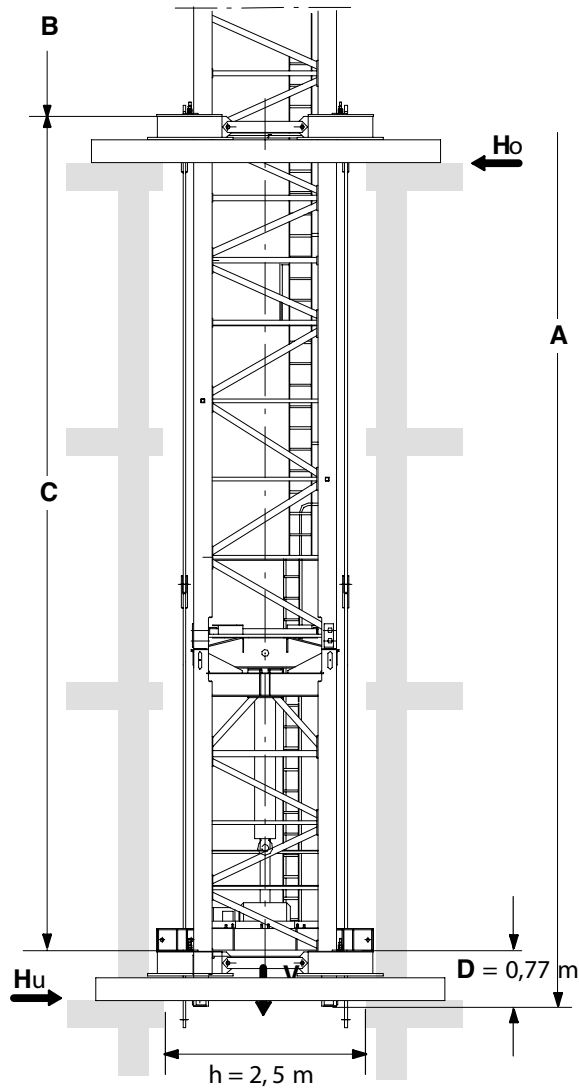
Climbing radius [m] for the balancing weights – WOLFF 7032.12

7032.12	Jib length [m]				
	45	42.5	40	37.5	35
UV 20.4 = 2.05 t	-	-	-	-	-
TV 20.4 = 2.98 t	-	-	-	-	-
Weight = 5.0 t	31.2	31.9	30.3	31.5	32.1
Weight = 8.0 t	-	-	-	-	21.4

Climbing radius [m] for the balancing weights – WOLFF 7032.12

7032.12	Jib length [m]				
	32.5	30	27.5	25	
UV 20.4 = 2.05 t	-	-	-	-	-
TV 20.4 = 2.98 t	-	-	-	-	-
Weight = 5.0 t	-	-	-	-	-
Weight = 8.0 t	20.1	21.3	22.1	20.1	

9 Suitable climbing devices



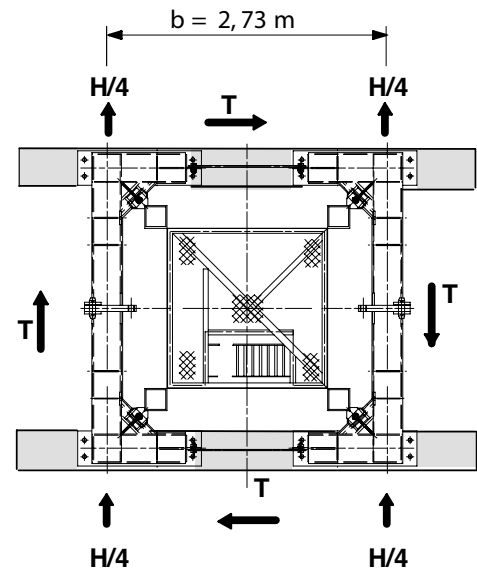
$$C_{\min} = 11,0 \text{ m}$$

$$C_{\max} = 14,0 \text{ m}$$

$$H_o = \frac{M}{C} + H$$

$$H_u = H_o - H$$

$$T = \frac{M_D}{2 \times b}$$



A	Tower height	C	Distance between guide frames
B	A-C-D		

In service clamping forces

In service clamping forces [kN] inside a building																
A [m]	64.5				60.0				55.5				51.0			
C [m]	11.0	12.0	13.0	14.0	11.0	12.0	13.0	14.0	11.0	12.0	13.0	14.0	11.0	12.0	13.0	14.0
V	1176				1138				1110				1091			
Ho	440	410	380	350	420	380	350	330	390	360	330	310	370	340	310	290
Hu	390	360	330	300	370	340	310	280	350	320	290	260	320	290	270	250
T	66				66				66				66			

Out of service clamping forces

Out of service clamping forces [kN] inside a building																
A [m]	64.5				60.0				55.5				51.0			
C [m]	11.0	12.0	13.0	14.0	11.0	12.0	13.0	14.0	11.0	12.0	13.0	14.0	11.0	12.0	13.0	14.0
V	1046				1008				980				961			
Ho	900	830	760	710	790	730	670	620	700	640	590	550	610	560	520	480
Hu	650	570	510	460	550	490	430	390	470	410	370	320	400	350	300	270
T	-				-				-				-			

10 Arrangement of counterweight blocks

10 Arrangement of counterweight blocks

L = 70 m	L = 67.5 m	L = 65 m	L = 62.5 m	L = 60 m
7 x 2.7 t	7 x 2.7 t	6 x 2.7 t	6 x 2.7 t	6 x 2.7 t
a →	a →	a →	a →	a →
W = 18.9 t	W = 18.9 t	W = 16.2 t	W = 16.2 t	W = 16.2 t
L = 57.5 m	L = 55 m	L = 52.5 m	L = 50 m	L = 47.5 m
6 x 2.7 t	5 x 2.7 t	5 x 2.7 t	5 x 2.7 t	5 x 2.7 t
a →	a →	a →	a →	a →
W = 16.2 t	W = 13.5 t	W = 13.5 t	W = 13.5 t	W = 13.5 t
L = 45 m	L = 42.5 m	L = 40 m	L = 37.5 m	L = 35 m
5 x 2.7 t	5 x 2.7 t	4 x 2.7 t	4 x 2.7 t	4 x 2.7 t
a →	a →	a →	a →	a →
W = 13.5 t	W = 13.5 t	W = 10.8 t	W = 10.8 t	W = 10.8 t
L = 32.5 m	L = 30 m	L = 27.5 m	L = 25 m	
3 x 2.7 t	3 x 2.7 t	3 x 2.7 t	2 x 2.7 t	
a →	a →	a →	a →	
W = 8.1 t	W = 8.1 t	W = 8.1 t	W = 5.4 t	

	Intermediate ballast 1 x 2.7 t		Counterweight block 1 x 2.7 t
	No counterweight	L	Jib length [m]
a	To the tower	G	Total weight [t]

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