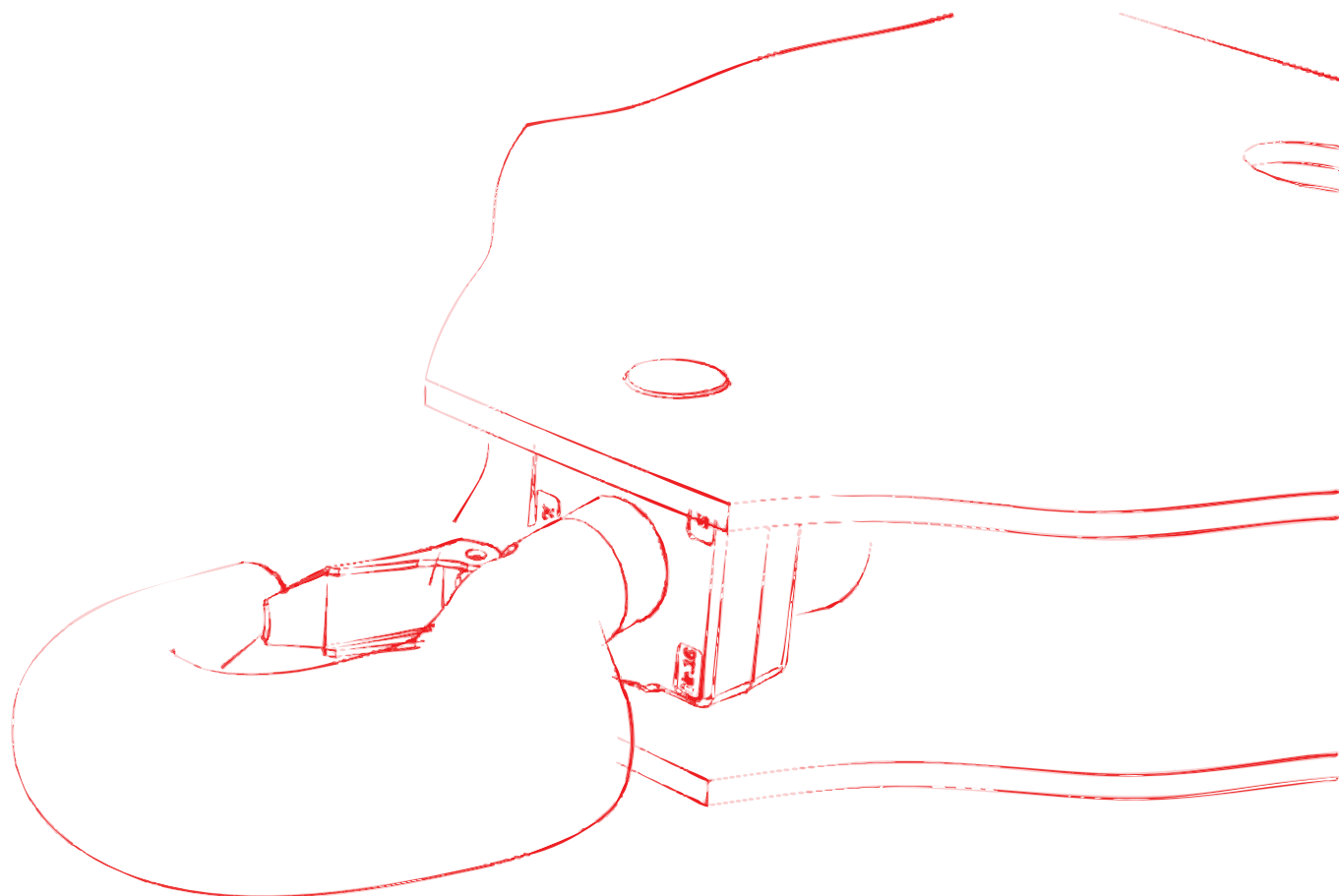


Slewing tower crane

WOLFF 166 B

Technical information



English

English



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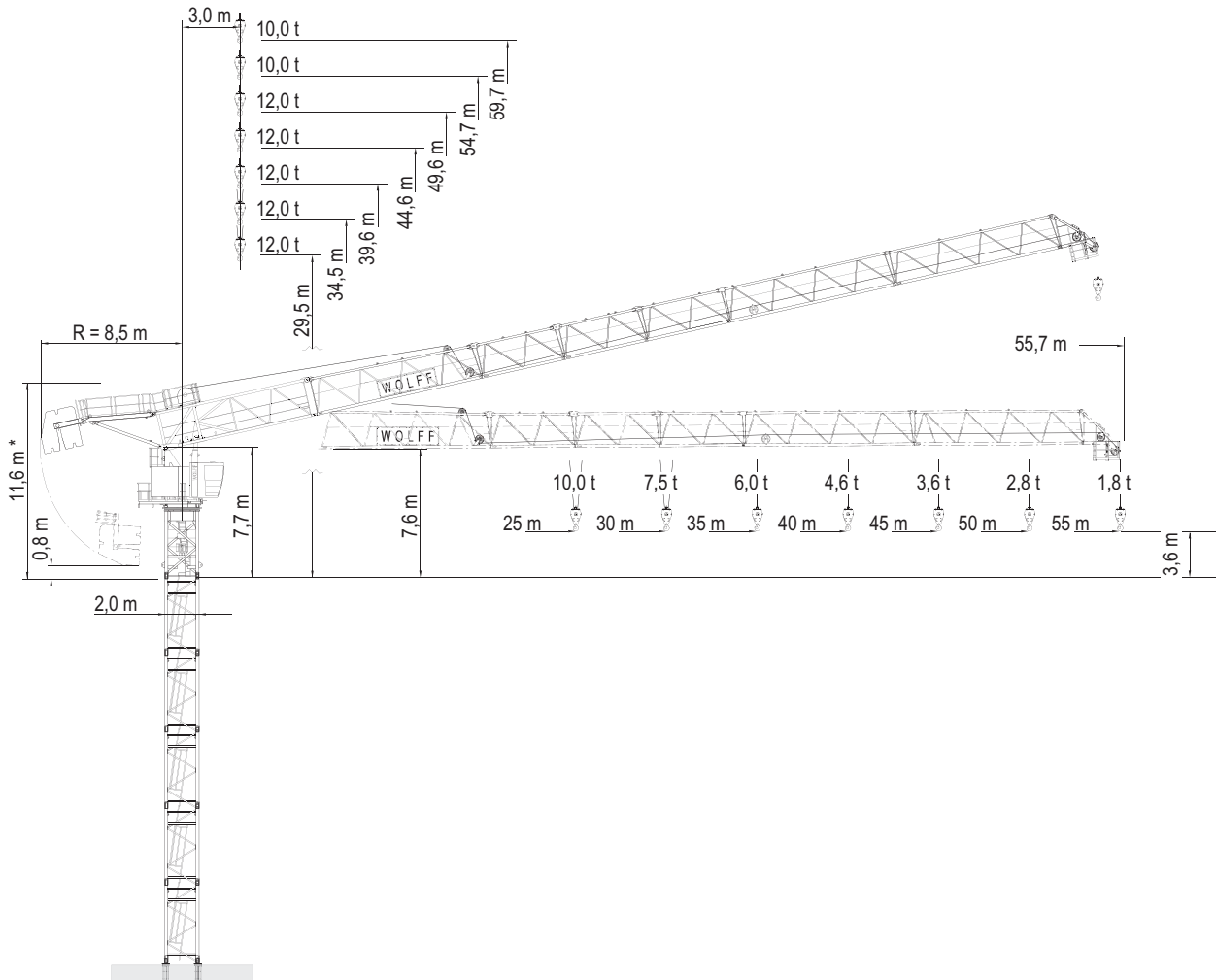
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1 Schedule drawing

1.1 Schedule drawing WOLFF 166 B




Data WOLFF 166B

Item	Data
Crane type	BGL GROUP C.0.11.0160
Design	Overhead travelling crane with top slewing luffing jib, with climbing feature
Type of setup	Stationary or travelling
Basis of calculation	EN 14439 (C25)
Load moment	max. 2520 kNm
Hoist winch	Hw 1260 FU

* at Rmax.

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 [t] WOLFF 166 B (1 fall operation)

WOLFF 166 B		Load carrying capacities [t]								
JL [m]	Operating radius for max. LCC [m]	Max. LCC ● c	Operating radius [m]							
			20	25	30	35	40	45	50	55
55	3.0 – 28.3	6.0	6.0	6.0	5.5	4.3	3.5	2.8	2.3	1.8
50	3.0 – 31.2		6.0	6.0	6.0	5.1	4.1	3.4	2.8	
45	3.0 – 32.0		6.0	6.0	6.0	5.3	4.3	3.6		
40	3.0 – 33.0		6.0	6.0	6.0	5.5	4.6			
35	3.0 – 35.0		6.0	6.0	6.0	6.0				
30	3.0 – 30.0		6.0	6.0	6.0					
25	3.0 – 25.0		6.0	6.0						

Caption	
JL	Jib length
LCC	Load carrying capacity

The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (1 fall operation = 1.96 kg per meter of the hook range).

When using the 1 fall hook tackle # 10032629 the load carrying capacities increase by 250 kg.

2 Load carrying capacities

2.2 Table of load carrying capacities [kg] in meter intervals, WOLFF 166 B (1 fall operation)

WOLFF 166 B ⬇	Load carrying capacities [kg]						
	Jib length [m]						
Operating radius [m]	25	30	35	40	45	50	55
10	6000	6000	6000	6000	6000	6000	6000
11	6000	6000	6000	6000	6000	6000	6000
12	6000	6000	6000	6000	6000	6000	6000
13	6000	6000	6000	6000	6000	6000	6000
14	6000	6000	6000	6000	6000	6000	6000
15	6000	6000	6000	6000	6000	6000	6000
16	6000	6000	6000	6000	6000	6000	6000
17	6000	6000	6000	6000	6000	6000	6000
18	6000	6000	6000	6000	6000	6000	6000
19	6000	6000	6000	6000	6000	6000	6000
20	6000	6000	6000	6000	6000	6000	6000
21	6000	6000	6000	6000	6000	6000	6000
22	6000	6000	6000	6000	6000	6000	6000
23	6000	6000	6000	6000	6000	6000	6000
24	6000	6000	6000	6000	6000	6000	6000
25	6000	6000	6000	6000	6000	6000	6000
26		6000	6000	6000	6000	6000	6000
27		6000	6000	6000	6000	6000	6000
28		6000	6000	6000	6000	6000	6000
29		6000	6000	6000	6000	6000	5790
30		6000	6000	6000	6000	6000	5510
31			6000	6000	6000	6000	5250
32			6000	6000	6000	5790	5000
33			6000	6000	5750	5540	4770
34			6000	5760	5510	5300	4550
35			6000	5540	5290	5080	4340
36				5330	5080	4870	4150
37				5140	4880	4670	3970
38				4950	4690	4480	3790
39				4770	4510	4300	3630
40				4600	4340	4130	3470
41					4180	3970	3320
42					4020	3810	3180
43					3870	3660	3040
44					3730	3520	2910
45					3600	3390	2790
46						3260	2670
47						3140	2560
48						3020	2450
49						2910	2350
50						2800	2250
51							2150
52							2060
53							1970
54							1880
55							1800

2.3 Table of load carrying capacity [t] WOLFF 166 B (1 fall operation, BOOST)

WOLFF 166 B		Max. LCC ●	Load carrying capacities with BOOST [t]							
JL [m]	Operating radius for max. LCC [m]		Operating radius [m]							
			20	25	30	35	40	45	50	55
55	3.0 - 30.2	6.0	6.0	6.0	6.0	4.8	3.8	3.1	2.5	2.0
50	3.0 - 33.3		6.0	6.0	6.0	5.6	4.5	3.7	3.1	
45	3.0 - 34.2		6.0	6.0	6.0	5.8	4.8	4.0		
40	3.0 - 35.4		6.0	6.0	6.0	6.0	5.1			
35	3.0 - 35.0		6.0	6.0	6.0	6.0				
30	3.0 - 30.0		6.0	6.0	6.0					
25	3.0 - 25.0		6.0	6.0						

Caption	
JL	Jib length
LCC	Load carrying capacity

The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (1 fall operation = 1.96 kg per meter of the hook range).

When using the 1 fall hook tackle # 10032629 the load carrying capacities increase by 280 kg.

2 Load carrying capacities

2.4 Table of load carrying capacities [kg] in meter intervals, WOLFF 166 B (1 fall operation, BOOST)

WOLFF 166 B 🔧	Load carrying capacities with BOOST [kg]						
	Jib length [m]						
Operating radius [m]	25	30	35	40	45	50	55
10	6000	6000	6000	6000	6000	6000	6000
11	6000	6000	6000	6000	6000	6000	6000
12	6000	6000	6000	6000	6000	6000	6000
13	6000	6000	6000	6000	6000	6000	6000
14	6000	6000	6000	6000	6000	6000	6000
15	6000	6000	6000	6000	6000	6000	6000
16	6000	6000	6000	6000	6000	6000	6000
17	6000	6000	6000	6000	6000	6000	6000
18	6000	6000	6000	6000	6000	6000	6000
19	6000	6000	6000	6000	6000	6000	6000
20	6000	6000	6000	6000	6000	6000	6000
21	6000	6000	6000	6000	6000	6000	6000
22	6000	6000	6000	6000	6000	6000	6000
23	6000	6000	6000	6000	6000	6000	6000
24	6000	6000	6000	6000	6000	6000	6000
25	6000	6000	6000	6000	6000	6000	6000
26		6000	6000	6000	6000	6000	6000
27		6000	6000	6000	6000	6000	6000
28		6000	6000	6000	6000	6000	6000
29		6000	6000	6000	6000	6000	6000
30		6000	6000	6000	6000	6000	6000
31			6000	6000	6000	6000	5780
32			6000	6000	6000	6000	5500
33			6000	6000	6000	6000	5250
34			6000	6000	6000	5830	5010
35			6000	6000	5820	5590	4770
36				5860	5590	5360	4570
37				5650	5370	5140	4370
38				5450	5160	4930	4170
39				5250	4960	4730	3990
40				5060	4770	4540	3820
41					4600	4370	3650
42					4420	4190	3500
43					4260	4030	3340
44					4100	3870	3200
45					3960	3730	3070
46						3590	2940
47						3450	2820
48						3320	2700
49						3200	2590
50						3080	2480
51							2370
52							2270
53							2170
54							2070
55							1980

2.5 Table of load carrying capacity [t] WOLFF 166 B (2 fall operation)

WOLFF 166 B		Load carrying capacities [t]								
JL [m]	Operating radius for max. LCC [m]	Max. LCC ⬇	Operating radius [m]							
			20	25	30	35	40	45	50	55
55	3.0 – 19.0	10.0	9.4	6.9	5.3	4.1	3.3	2.6	2.0	1.6
50	3.0 – 21.0	12.0	10.0	8.0	6.2	4.9	3.9	3.2	2.6	
45	3.0 – 18.4		10.8	8.2	6.4	5.1	4.1	3.4		
40	3.0 – 18.7		11.1	8.4	6.6	5.4	4.4			
35	3.0 – 19.3		11.5	8.9	7.1	5.8				
30	3.0 – 20.0		12.0	9.3	7.5					
25	3.0 – 21.0		12.0	10.0						

Caption	
JL	Jib length
LCC	Load carrying capacity


The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (2 fall operation = 3.92 kg per meter of the hook range).

2 Load carrying capacities

2.6 Table of load carrying capacities [kg] in meter intervals, WOLFF 166 B (2 fall operation)

WOLFF 166 B 🔧	Load carrying capacities [kg]						
	Jib length [m]						
Operating radius [m]	25	30	35	40	45	50	55
10	12000	12000	12000	12000	12000	10000	10000
11	12000	12000	12000	12000	12000	10000	10000
12	12000	12000	12000	12000	12000	10000	10000
13	12000	12000	12000	12000	12000	10000	10000
14	12000	12000	12000	12000	12000	10000	10000
15	12000	12000	12000	12000	12000	10000	10000
16	12000	12000	12000	12000	12000	10000	10000
17	12000	12000	12000	12000	12000	10000	10000
18	12000	12000	12000	12000	12000	10000	10000
19	12000	12000	12000	11770	11540	10000	10000
20	12000	12000	11520	11070	10840	10000	9360
21	12000	11360	10880	10440	10200	10000	8780
22	11430	10770	10300	9860	9620	9420	8250
23	10910	10240	9780	9330	9090	8890	7770
24	10440	9750	9290	8850	8610	8410	7330
25	10000	9300	8850	8400	8160	7960	6920
26		8880	8440	7990	7750	7550	6540
27		8500	8060	7610	7370	7160	6200
28		8140	7710	7260	7010	6810	5880
29		7810	7380	6930	6680	6480	5570
30		7500	7070	6620	6370	6170	5290
31			6780	6340	6090	5880	5030
32			6510	6070	5820	5610	4790
33			6260	5820	5560	5360	4560
34			6020	5580	5320	5120	4340
35			5800	5350	5100	4900	4130
36				5140	4890	4680	3940
37				4940	4690	4480	3760
38				4750	4500	4290	3580
39				4570	4320	4110	3420
40				4400	4140	3940	3260
41					3980	3780	3110
42					3820	3620	2970
43					3680	3470	2840
44					3540	3330	2710
45					3400	3200	2590
46						3070	2470
47						2940	2350
48						2820	2250
49						2710	2140
50						2600	2040
51							1950
52							1860
53							1770
54							1680
55							1600

2.7 Table of load carrying capacity [t] WOLFF 166 B (2 fall operation, BOOST)


WOLFF 166 B		Load carrying capacities with BOOST [t]								
JL [m]	Operating radius for max. LCC [m]	Max. LCC 	Operating radius [m]							
			20	25	30	35	40	45	50	55
55	3.0 - 20.4	10.0	10.0	7.6	5.8	4.5	3.6	2.9	2.2	1.8
50	3.0 - 22.6		10.0	8.8	6.8	5.4	4.3	3.5	2.9	
45	3.0 - 19.9	12.0	11.9	9.0	7.0	5.6	4.6	3.7		
40	3.0 - 20.2		12.0	9.2	7.3	5.9	4.8			
35	3.0 - 21.0		12.0	9.7	7.8	6.4				
30	3.0 - 21.8		12.0	10.2	8.3					
25	3.0 - 23.0		12.0	11.0						

Caption	
JL	Jib length
LCC	Load carrying capacity

The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (2 fall operation = 3.92 kg per meter of the hook range).

2 Load carrying capacities

2.8 Table of load carrying capacities [kg] in meter intervals, WOLFF 166 B (2 fall operation, BOOST)

WOLFF 166 B 	Load carrying capacities with BOOST [kg]						
	Jib length [m]						
Operating radius [m]	25	30	35	40	45	50	55
10	12000	12000	12000	12000	12000	10000	10000
11	12000	12000	12000	12000	12000	10000	10000
12	12000	12000	12000	12000	12000	10000	10000
13	12000	12000	12000	12000	12000	10000	10000
14	12000	12000	12000	12000	12000	10000	10000
15	12000	12000	12000	12000	12000	10000	10000
16	12000	12000	12000	12000	12000	10000	10000
17	12000	12000	12000	12000	12000	10000	10000
18	12000	12000	12000	12000	12000	10000	10000
19	12000	12000	12000	12000	12000	10000	10000
20	12000	12000	12000	12000	11920	10000	10000
21	12000	12000	11970	11480	11220	10000	9660
22	12000	11850	11330	10850	10580	10000	9080
23	12000	11260	10760	10260	10000	9780	8550
24	11480	10730	10220	9740	9470	9250	8060
25	11000	10230	9740	9240	8980	8760	7610
26		9770	9280	8790	8530	8310	7190
27		9350	8870	8370	8110	7880	6820
28		8950	8480	7990	7710	7490	6470
29		8590	8120	7620	7350	7130	6130
30		8250	7780	7280	7010	6790	5820
31			7460	6970	6700	6470	5530
32			7160	6680	6400	6170	5270
33			6890	6400	6120	5900	5020
34			6620	6140	5850	5630	4770
35			6380	5890	5610	5390	4540
36				5650	5380	5150	4330
37				5430	5160	4930	4140
38				5230	4950	4720	3940
39				5030	4750	4520	3760
40				4840	4550	4330	3590
41					4380	4160	3420
42					4200	3980	3270
43					4050	3820	3120
44					3890	3660	2980
45					3740	3520	2850
46						3380	2720
47						3230	2590
48						3100	2480
49						2980	2350
50						2860	2240
51							2150
52							2050
53							1950
54							1850
55							1760

The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (2 fall operation = 3.92 kg per meter of the hook range).

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 – 35 m			
Item					
1	4.5 m	UV 20.4	UV 20.4	TV 20.4	
2	9.0 m	UV 20.4	UV 20.4	TV 20.4	
3	13.5 m	UV 20.4	UV 20.4	TV 20.4	
4	18.0 m	UV 20.4	UV 20.4	TV 20.4	
5	22.5 m	UV 20.4	UV 20.4	TV 20.4	
6	27.0 m	UV 20.4	UV 20.4	TV 20.4	
7	31.5 m	UV 20.4	UV 20.4	TV 20.4	
8	36.0 m	UV 20.4	UV 20.4	TV 20.4	
9	40.5 m	UV 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	TV 20.4	
Foundation anchors		Type-C 120 / FUA 120	Typ-D	Typ-D	
Tower height [m]		40.5	58.5	58.5	
Wind category		C 25			

Jib length	25 m – 35 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	55.0 m	VR 2023		
14	59.5 m	TV 23		
15	64.0 m	HTA 23		
16	68.5 m	HT 23		
17	73.0 m	HT 23		
18	77.5 m	HT 23		
Foundation anchors		FUA G 160		
Tower height [m]		77.5		
Wind category			C 25	

3 Tower combinations

Jib length	25 m – 35 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	55.0 m	VR 2023			
14	59.5 m	TV 23			
15	64.0 m	HTA 23			
16	68.5 m	HT 23			
17	73.0 m	HT 23			
18	84.3 m	BT 23			
Foundation anchors		FUA 210 G			
Tower height [m]		84.3			
Wind category			C 25		

Jib length		25 m – 35 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	50.5 m	VR 2023			
13	55.0 m	TV 23			
14	59.5 m	HTA 23			
15	64.0 m	HT 23			
16	68.5 m	HT 23			
17	73.0 m	HT 23			
18	74.2 m	VR 23/25-29			
19	78.7 m	UV 29			
20	83.2 m	UV 29			
21	93.2 m	BT 29			
Foundation anchors		FUA BT 29			
Tower height [m]		93.2			
Wind category					C 25

3 Tower combinations

Jib length	40 m – 45 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	TV 20.4	
2	9.0 m	UV 20.4	UV 20.4	TV 20.4	
3	13.5 m	UV 20.4	UV 20.4	TV 20.4	
4	18.0 m	UV 20.4	UV 20.4	TV 20.4	
5	22.5 m	UV 20.4	UV 20.4	TV 20.4	
6	27.0 m	UV 20.4	UV 20.4	TV 20.4	
7	31.5 m	UV 20.4	UV 20.4	TV 20.4	
8	36.0 m	UV 20.4	UV 20.4	TV 20.4	
9	40.5 m	UV 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	
Foundation anchors		Type-C 120 / FUA 120	Typ-D	Typ-D	
Tower height [m]		40.5	54.0	54.0	
Wind category		C 25			

Jib length	40 m – 45 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	50.5 m	VR 2023		
13	55.0 m	TV 23		
14	59.5 m	HTA 23		
15	64.0 m	HT 23		
16	68.5 m	HT 23		
17	73.0 m	HT 23		
Foundation anchors		FUA G 160		
Tower height [m]		73.0		
Wind category			C 25	

3 Tower combinations

Jib length	40 m – 45 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	50.5 m	VR 2023		
13	55.0 m	TV 23		
14	59.5 m	HTA 23		
15	64.0 m	HT 23		
16	68.5 m	HT 23		
17	79.8 m	BT 23		
Foundation anchors		FUA 210 G		
Tower height [m]		79.8		
Wind category			C 25	

Jib length		40 m – 45 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	50.5 m	VR 2023			
13	55.0 m	TV 23			
14	59.5 m	HTA 23			
15	64.0 m	HT 23			
16	68.5 m	HT 23			
17	69.7 m	VR 23/25-29			
18	74.2 m	UV 29			
19	84.2 m	BT 29			
Foundation anchors		FUA BT 29			
Tower height [m]		84.2			
Wind category		C 25			

3 Tower combinations

Jib length	50 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	TV 20.4	
2	9.0 m	UV 20.4	UV 20.4	TV 20.4	
3	13.5 m	UV 20.4	UV 20.4	TV 20.4	
4	18.0 m	UV 20.4	UV 20.4	TV 20.4	
5	22.5 m	UV 20.4	UV 20.4	TV 20.4	
6	27.0 m	UV 20.4	UV 20.4	TV 20.4	
7	31.5 m	UV 20.4	UV 20.4	TV 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		
Foundation anchors		Type-C 120 / FUA 120	Typ-D	Typ-D	
Tower height [m]		36.0	54.0	49.5	
Wind category		C 25			

Jib length	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	50.5 m	VR 2023		
13	55.0 m	TV 23		
14	59.5 m	HTA 23		
15	64.0 m	HT 23		
16	68.5 m	HT 23		
Foundation anchors		FUA G 160		
Tower height [m]		68.5		
Wind category			C 25	

3 Tower combinations

Jib length	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	46.0 m	VR 2023		
12	50.5 m	TV 23		
13	55.0 m	HTA 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
16	75.3 m	BT 23		
Foundation anchors		FUA 210 G		
Tower height [m]		75.3		
Wind category		C 25		

Jib length	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	46.0 m	VR 2023		
12	50.5 m	TV 23		
13	55.0 m	HTA 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
16	65.2 m	VR 23/25-29		
17	69.7 m	UV 29		
18	74.2 m	UV 29		
19	84.2 m	BT 29		
Foundation anchors		FUA BT 29		
Tower height [m]		84.2		
Wind category		C 25		

3 Tower combinations

Jib length	55 m				
Item					
1	4.5 m	UV 20.4	UV 20.4	TV 20.4	
2	9.0 m	UV 20.4	UV 20.4	TV 20.4	
3	13.5 m	UV 20.4	UV 20.4	TV 20.4	
4	18.0 m	UV 20.4	UV 20.4	TV 20.4	
5	22.5 m	UV 20.4	UV 20.4	TV 20.4	
6	27.0 m	UV 20.4	UV 20.4	TV 20.4	
7	31.5 m	UV 20.4	UV 20.4	TV 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	
Foundation anchors		Type-C 120 / FUA 120	Typ-D	Typ-D	
Tower height [m]		36.0	49.5	49.5	
Wind category		C 25			

Jib length	55 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	46.0 m	VR 2023		
12	50.5 m	TV 23		
13	55.0 m	HTA 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
Foundation anchors		FUA G 160		
Tower height [m]		64.0		
Wind category		C 25		

3 Tower combinations

Jib length	55 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	41.5 m	VR 2023		
11	46.0 m	TV 23		
12	50.5 m	HTA 23		
13	55.0 m	HT 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
16	75.3 m	BT 23		
Foundation anchors		FUA 210 G		
Tower height [m]		75.3		
Wind category		C 25		

Jib length	55 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	41.5 m	VR 2023		
11	46.0 m	TV 23		
12	50.5 m	HTA 23		
13	55.0 m	HT 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
16	65.2 m	VR 23/25-29		
17	69.7 m	UV 29		
18	79.7 m	BT 29		
Foundation anchors		FUA BT 29		
Tower height [m]		79.7		
Wind category			C 25	

3 Tower combinations

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

Jib length		25 m - 35 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	UV 20.4	UV 20.4
9	40.5 m	TVA 20.4	UV 20.4	TVA 20.4	TVA 20.4
10	45.0 m	TV 20.4	TVA 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
13	58.5 m			TV 20.4	TV 20.4
14	59.5 m				VR 2023
15	64.0 m				TV 23
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	5.0 x 5.0 6.0 x 6.0
Substructure height [m]		1.2	1.2	1.2	1.2
Tower height [m]		55.2	50.7	59.7	65.2
Wind category		C 25			

Jib length	25 m - 35 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	UV 20.4	
9	40.5 m	TVA 20.4	TVA 20.4	TVA 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	59.5 m		VR 2023	VR 2023	
15	64.0 m		TV 23	TV 23	
16	68.5 m			HTA 23	
17	73.0 m			HT 23	
Substructure		KR 12-60 KR 12-60/80	KR 12-60 KR 12-60/80	KR 12-60 KR 12-60/80	
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0	6.0 x 6.0 8.0 x 8.0	6.0 x 6.0 8.0 x 8.0	
Substructure height [m]		1.4	1.4	1.4	
Tower height [m]		59.9	65.4	74.4	
Wind category		C 25			

3 Tower combinations

Jib length	25 m - 35 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	55.0 m	VR 2023			
14	59.5 m	TV 23			
15	64.0 m	HTA 23			
16	68.5 m	HT 23			
17	73.0 m	HT 23			
18	77.5 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]		79.3			
Wind category	C 25				

Jib length	25 m - 35 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	55.0 m	VR 2023		
14	59.5 m	TV 23		
15	64.0 m	HTA 23		
16	68.5 m	HT 23		
17	73.0 m	HT 23		
18	74.2 m	VR 23/25-29		
19	84.2 m	BT 29		
Substructure		KR 16-80		
Corner distance [m x m]		8.0 x 8.0		
Substructure height [m]		1.8		
Tower height [m]		86.0		
Wind category	C 25			

3 Tower combinations

Jib length		25 m - 35 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	55.0 m	VR 2023			
14	59.5 m	TV 23			
15	64.0 m	HTA 23			
16	68.5 m	HT 23			
17	73.0 m	HT 23			
18	74.2 m	VR 23/25-29			
19	78.7 m	UV 29			
20	88.7 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]		90.5			
Wind category		C 25			

Jib length	40 m – 45 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	UV 20.4	
9	40.5 m	TVA 20.4	TVA 20.4	TVA 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	
12	54.0 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]		50.7	46.2	55.2	
Wind category	C 25				

3 Tower combinations

Jib length		40 m – 45 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	UV 20.4	
9	40.5 m	TVA 20.4	TVA 20.4	TVA 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	55.0 m	VR 2023		VR 2023	
14	59.5 m	TV 23		TV 23	
Substructure		KRV 10-60	KR 12-60 KR 12-60/80	KR 12-60 KR 12-60/80	
Corner distance [m x m]		6.0 x 6.0	6.0 x 6.0 8.0 x 8.0	6.0 x 6.0 8.0 x 8.0	
Substructure height [m]		1.2	1.4	1.4	
Tower height [m]		60.7	55.4	60.9	
Wind category		C 25			

Jib length	40 m – 45 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	TVA 20.4	TVA 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	50.5 m	VR 2023	VR 2023	
13	55.0 m	TV 23	TV 23	
14	59.5 m	HTA 23	HTA 23	
15	64.0 m	HT 23	HT 23	
16	68.5 m	HT 23	HT 23	
17	73.0 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]		69.9	74.8	
Wind category		C 25		

3 Tower combinations

Jib length		40 m – 45 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	50.5 m	VR 2023			
13	55.0 m	TV 23			
14	59.5 m	HTA 23			
15	64.0 m	HT 23			
16	68.5 m	HT 23			
17	69.7 m	VR 23/25-29			
18	79.7 m	BT 29			
Substructure		KR 16-80			
Corner distance [m x m]		8.0 x 8.0			
Substructure height [m]		1.8			
Tower height [m]		81.5			
Wind category				C 25	

Jib length	40 m – 45 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	50.5 m	VR 2023		
13	55.0 m	TV 23		
14	59.5 m	HTA 23		
15	64.0 m	HT 23		
16	68.5 m	HT 23		
17	69.7 m	VR 23/25-29		
18	74.2 m	UV 29		
19	84.2 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]		86.0		
Wind category			C 25	

3 Tower combinations

Jib length	50 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	TVA 20.4
9	40.5 m	TVA 20.4	TVA 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
12	54.0 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]		46.2	41.7	55.2	50.7
Wind category		C 25			

Jib length	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	50.5 m	VR 2023		
13	55.0 m	TV 23		
Substructure		KRV 10-60		
Corner distance [m x m]		6.0 x 6.0		
Substructure height [m]		1.2		
Tower height [m]		56.2		
Wind category		C 25		

3 Tower combinations

Jib length	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		
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]		55.4		
Wind category		C 25		

Jib length	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	TVA 20.4	TVA 20.4	TVA 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	50.5 m	VR 2023	VR 2023	VR 2023	
13	55.0 m	TV 23	TV 23	TV 23	
14	59.5 m	TV 23	HTA 23	HTA 23	
15	64.0 m		HT 23	HT 23	
16	68.5 m			HT 23	
Substructure		KR 12-60 KR 12-60/80	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	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	1.4	1.8	
Tower height [m]		60.9	65.4	70.3	
Wind category		C 25			

3 Tower combinations

Jib length	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	46.0 m	VR 2023		
12	50.5 m	TV 23		
13	55.0 m	HTA 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
16	65.2 m	VR 23/25-29		
17	69.7 m	UV 29		
18	79.7 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]		81.5		
Wind category	C 25			

Jib length	55 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	TVA 20.4	TVA 20.4	
9	40.5 m	TV 20.4	TV 20.4	
10	45.0 m		TV 20.4	
11	49.5 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	
Tower height [m]		41.7	50.7	
Wind category	C 25			

3 Tower combinations

Jib length	55 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	46.0 m	VR 2023			
12	50.5 m	TV 23			
13	55.0 m	TV 23			
Substructure		KRV 10-60			
Corner distance [m x m]		6.0 x 6.0			
Substructure height [m]		1.2			
Tower height [m]		56.2			
Wind category		C 25			

Jib length	55 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		
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]		50.9		
Wind category	C 25			

3 Tower combinations

Jib length	55 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	TVA 20.4	TVA 20.4	TVA 20.4
8	36.0 m	TVA 20.4	TV 20.4	TV 20.4	TV 20.4
9	40.5 m	TV 20.4	TV 20.4	TV 20.4	TV 20.4
10	45.0 m	TV 20.4	TV 20.4	TV 20.4	TV 20.4
11	46.0 m	VR 2023	VR 2023	VR 2023	VR 2023
12	50.5 m	TV 23	TV 23	TV 23	TV 23
13	55.0 m	TV 23	HTA 23	HTA 23	HTA 23
14	59.5 m		HT 23	HT 23	HT 23
15	64.0 m			HT 23	HT 23
16	65.2 m				VR 23/25-29
17	75.2 m				BT 29
Substructure		KR 12-60 KR 12-60/80	KR 12-60 KR 12-60/80	KR 16-80 KR 16-80/100	KR 16-80 KR 16-80/100
Corner distance [m x m]		6.0 x 6.0 8.0 x 8.0	6.0 x 6.0 8.0 x 8.0	8.0 x 8.0 10.0 x 10.0	8.0 x 8.0 10.0 x 10.0
Substructure height [m]		1.4	1.4	1.8	1.8
Tower height [m]		56.4	60.9	65.8	77.0
Wind category		C 25			

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

Jib length	25 m - 35 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	TVA 20.4	UV 20.4	UV 20.4	
9	40.5 m		UV 20.4	TVA 20.4	
10	45.0 m		TVA 20.4	TV 20.4	
11	49.5 m			TV 20.4	
12	54.0 m			TVÜ 20.4	
13	58.5 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]		40.0	49.0	62.5	
Wind category		C 25			

3 Tower combinations

Jib length		40 m - 45 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	TVA 20.4	UV 20.4	UV 20.4	
8	36.0 m		UV 20.4	UV 20.4	
9	40.5 m		TVA 20.4	TVA 20.4	
10	45.0 m			TV 20.4	
11	49.5 m			TVÜ 20.4	
12	54.0 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]		35.5	44.5	58.0	
Wind category		C 25			

Jib length	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	TVA 20.4	UV 20.4	UV 20.4	
8	36.0 m		TVA 20.4	TVA 20.4	
9	40.5 m			TV 20.4	
10	45.0 m			TV 20.4	
11	49.5 m			TVÜ 20.4	
12	54.0 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]		35.5	40.0	58.0	
Wind category		C 25			

3 Tower combinations

Jib length	55 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	TVA 20.4	UV 20.4	UV 20.4	
8	36.0 m		TVA 20.4	TVA 20.4	
9	40.5 m			TV 20.4	
10	45.0 m			TVÜ 20.4	
11	49.5 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]		35.5	40.0	53.5	
Wind category		C 25			

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

Jib length	25 m - 35 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	UV 20.4	
9	40.5 m	UV 20.4	TVA 20.4	TVA 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	
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]		42.5	51.5	61.0	
Wind category		C 25			

3 Tower combinations

Jib length		25 m - 35 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	UV 20.4		
9	40.5 m	TVA 20.4	TVA 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		
15	64.0 m		TV 23		
Substructure		KRF6 12-60/80	KRF6 12-60/80		
Corner distance [m x m]		8.0 x 8.0	8.0 x 8.0		
Substructure height [m]		2.9	2.9		
Tower height [m]		61.4	66.9		
Wind category		C 25			

Jib length	25 m - 35 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	TVA 20.4	TVA 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	55.0 m	VR 2023	VR 2023	
14	59.5 m	TV 23	TV 23	
15	64.0 m	TV 23	HTA 23	
16	68.5 m	HTA 23	HT 23	
17	73.0 m		HT 23	
18	77.5 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]		71.4	80.8	
Wind category		C 25		

3 Tower combinations

Jib length		25 m - 35 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	55.0 m	VR 2023			
14	59.5 m	TV 23			
15	64.0 m	HTA 23			
16	68.5 m	HT 23			
17	73.0 m	HT 23			
18	74.2 m	VR 23/25-29			
19	84.2 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]		87.5			
Wind category		C 25			

Jib length	40 m - 45 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	TV 20.4	
10	45.0 m		TV 20.4	TV 20.4	
11	49.5 m			TV 20.4	
12	54.0 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	47.0	56.5	
Wind category	C 25				

3 Tower combinations

Jib length		40 m - 45 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	TVA 20.4	TVA 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	55.0 m		VR 2023		
14	59.5 m		TV 23		
Substructure		KRF6 12-60/80	KRF6 12-60/80		
Corner distance [m x m]		8.0 x 8.0	8.0 x 8.0		
Substructure height [m]		2.9	2.9		
Tower height [m]		56.9	62.4		
Wind category		C 25			

Jib length	40 m - 45 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	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	50.5 m	VR 2023	VR 2023	
13	55.0 m	TV 23	TV 23	
14	59.5 m	HTA 23	HTA 23	
15	64.0 m	HT 23	HT 23	
16	68.5 m		HT 23	
17	73.0 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]		66.9	76.3	
Wind category		C 25		

Jib length	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	TV 20.4	
10	45.0 m			TV 20.4	
11	49.5 m			TV 20.4	
12	54.0 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	42.5	56.5	
Wind category	C 25				

3 Tower combinations

Jib length	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			
Substructure		KRF6 12-60/80			
Corner distance [m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		56.9			
Wind category		C 25			

Jib length	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	50.5 m	VR 2023		
13	55.0 m	TV 23		
14	59.5 m	HTA 23		
15	64.0 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]		66.9		
Wind category			C 25	

3 Tower combinations

Jib length	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	46.0 m	VR 2023			
12	50.5 m	TV 23			
13	55.0 m	TV 23			
14	59.5 m	HTA 23			
15	64.0 m	HT 23			
16	68.5 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]		71.8			
Wind category			C 25		

Jib length	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	46.0 m	VR 2023		
12	50.5 m	TV 23		
13	55.0 m	HTA 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
16	65.2 m	VR 23/25-29		
17	75.2 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]		78.5		
Wind category			C 25	

3 Tower combinations

Jib length	55 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	TVA 20.4	TVA 20.4	
9	40.5 m			TV 20.4	
10	45.0 m			TV 20.4	
11	49.5 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	38.0	52.0	
Wind category		C 25			

Jib length	55 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		
Substructure	KRF6 12-60/80			
Corner distance [m x m]	8.0 x 8.0			
Substructure height [m]	2.9			
Tower height [m]	52.4			
Wind category	C 25			

3 Tower combinations

Jib length	55 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	50.5 m	VR 2023			
13	55.0 m	TV 23			
Substructure		KRF6 12-60/80			
Corner distance [m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		57.9			
Wind category		C 25			

Jib length	55 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	46.0 m	VR 2023	VR 2023	
12	50.5 m	TV 23	TV 23	
13	55.0 m	TV 23	HTA 23	
14	59.5 m	HTA 23	HT 23	
15	64.0 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]		62.4	67.3	
Wind category		C 25		

3 Tower combinations

Jib length	55 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	41.5 m	VR 2023		
11	46.0 m	TV 23		
12	50.5 m	TV 23		
13	55.0 m	HTA 23		
14	59.5 m	HT 23		
15	64.0 m	HT 23		
16	65.2 m	VR 23/25-29		
17	75.2 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]		78.5		
Wind category		C 25		

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

Jib length	25 m – 35 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	TVA 20.4	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		TVA 20.4	UV 20.4	UV 20.4
9	40.5 m			UV 20.4	TVA 20.4
10	45.0 m			TVA 20.4	TV 20.4
11	49.5 m				TV 20.4
12	54.0 m				TVÜ 20.4
13	58.5 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]		31.5	40.5	49.5	63.5
Wind category		C 25			

3 Tower combinations




Jib length	40 m – 45 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		TVA 20.4	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
11	49.5 m				TVÜ 20.4
12	54.0 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	36.0	45.0	59.0
Wind category		C 25			

Jib length	50 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	TVA 20.4	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		TVA 20.4	UV 20.4	UV 20.4
8	36.0 m			TVA 20.4	TVA 20.4
9	40.5 m				TV 20.4
10	45.0 m				TVÜ 20.4
11	49.5 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]		22.5	36.0	40.5	54.5
Wind category		C 25			

3 Tower combinations

Jib length	55 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	TVA 20.4	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		TVA 20.4	UV 20.4	UV 20.4
7	31.5 m			UV 20.4	UV 20.4
8	36.0 m			TVA 20.4	TVA 20.4
9	40.5 m				TV 20.4
10	45.0 m				TVÜ 20.4
11	49.5 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]		18.0	31.5	40.5	54.5
Wind category		C 25			

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

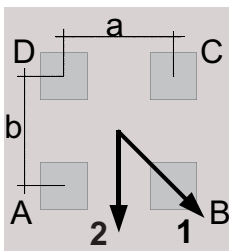
	<p style="text-align: center;">! DANGER</p> <p>Usage of incorrect tower combinations. The slewing tower crane may overturn.</p> <ol style="list-style-type: none"> 1) Use the specified tower combinations. 2) If you need another tower combination that is not specified here, please contact WOLFFKRAN to get an approved alternative setup in writing.
	<p style="text-align: center;">NOTICE</p> <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>
	<p style="text-align: center;">NOTICE</p> <p>Reducing foundation loads / central ballast weights / corner loads. A different assembly sequence of the slewing section may make a reduction of the foundation loads / central ballast weights or corner loads possible. Contact WOLFFKRAN for information about the special assembly sequence of the slewing section components and the reduced values.</p>

Jib positions

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

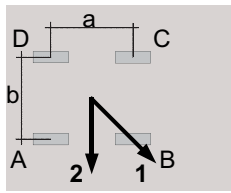
For square setup, the following equation is true: $a = b$

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



Cross frame or cross frame element

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



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.

Please contact WOLFFKRAN for stability calculations in other wind regions.

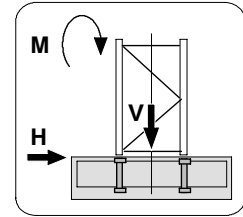
For information on the different substructures, refer to Section 5 of the Operating Manual.

4.1 Foundation loads jib 25 m - 35 m

Slewing section 166 B with 25 m – 35 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.



TH:	Crane in service			Crane out of service			Assembly		
	Slewing torque: 260 kNm			Wind category C25					
	M	V	H	M	V	H	M	V	H
[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
4.5	2000	672	18	2240	672	44	1550	333	7
9.0	2090	700	20	2460	715	59	1580	361	8
13.5	2200	728	22	2740	743	65	1620	390	9
18.0	2310	756	24	3070	772	71	1670	418	10
22.5	2440	785	26	3430	800	77	1720	446	11
27.0	2580	813	28	3830	828	84	1780	474	12
31.5	2740	841	29	4260	857	90	1850	503	13
36.0	2920	870	31	4750	885	96	1920	531	14
40.5	3120	898	33	5280	913	102	2010	560	15
45.0	3330	926	35	5860	941	108	2100	588	16
49.5	3570	955	37	6500	970	114	2200	616	18
54.0	3830	983	39	7200	998	121	2310	644	19
58.5	4120	1011	41	7980	1026	127	2430	672	20
59.5	4080	1113	44	7670	983	121	2380	629	19
64.0	4370	1158	47	8370	1028	128	2490	674	20
68.5	4690	1197	49	9520	1067	192	2600	713	21
73.0	5040	1237	51	10840	1106	204	2730	752	22
77.5	5420	1276	53	12270	1146	216	2870	792	24
79.8	5560	1311	55	12930	1181	223	2930	827	24
84.3	5980	1351	57	14540	1220	235	3080	866	26
Tower combination with base tower element BT 29									
88.7	6210	1421	60	15900	1291	251	3200	937	28
93.2	6640	1467	63	17670	1337	265	3360	983	29

Caption:

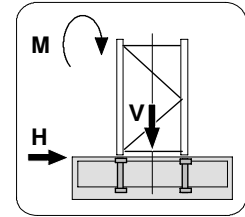
TH:	Tower height	V:	Vertical load
H:	Horizontal load	M:	Torque

4.2 Foundation loads jib 40 m - 45 m

Slewing section 166 B with 40 m – 45 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.



TH:	Crane in service			Crane out of service			Assembly		
	Slewing torque: 260 kNm			Wind category C25					
	M	V	H	M	V	H	M	V	H
[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
4.5	1900	827	26	2300	696	59	2040	342	7
9.0	2030	855	28	2590	725	66	2080	371	8
13.5	2170	883	30	2910	753	72	2120	399	9
18.0	2320	912	32	3260	781	78	2170	427	10
22.5	2490	940	34	3650	810	84	2220	456	11
27.0	2680	968	36	4080	838	90	2290	484	12
31.5	2890	997	37	4560	866	96	2360	512	13
36.0	3110	1025	39	5080	895	102	2440	541	14
40.5	3420	1053	41	5640	923	109	2530	569	16
45.0	3630	1081	43	6260	951	115	2630	597	17
49.5	3930	1110	45	6940	979	121	2740	625	18
54.0	4260	1138	47	7690	1008	127	2860	654	19
55.0	4230	1094	45	7460	964	121	2810	610	18
59.5	4520	1139	48	8530	1009	181	2920	655	19
64.0	4830	1179	50	9720	1048	193	3040	694	20
68.5	5180	1218	52	11020	1088	204	3160	734	22
73.0	5560	1257	54	12450	1127	216	3300	773	23
75.3	5700	1292	56	13100	1162	224	3360	808	24
79.8	6120	1332	58	14690	1201	236	3510	848	25
Tower combination with base tower element BT 29									
84.2	6390	1391	61	16070	1261	251	3630	907	26

Caption:

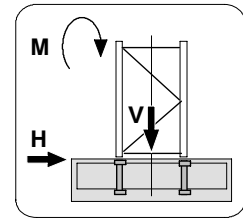
TH:	Tower height	V:	Vertical load
H:	Horizontal load	M:	Torque

4.3 Foundation loads jib 50 m

Slewing section 166 B with 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.



TH:	Crane in service			Crane out of service			Assembly		
	Slewing torque: 260 kNm			Wind category C25					
	M	V	H	M	V	H	M	V	H
[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
4.5	2010	813	26	2360	705	63	2440	351	7
9.0	2140	842	28	2660	733	69	2470	379	8
13.5	2280	870	30	3000	761	75	2520	407	9
18.0	2440	898	32	3370	789	81	2570	436	10
22.5	2610	927	34	3780	818	88	2630	464	11
27.0	2820	955	36	4230	846	94	2690	492	12
31.5	3040	983	38	4720	874	100	2770	520	13
36.0	3290	1011	40	5250	903	106	2850	549	15
40.5	3490	1040	42	5840	931	112	2950	577	16
45.0	3760	1068	44	6490	959	118	3050	605	17
49.5	4070	1096	46	7330	988	174	3170	634	18
54.0	4350	1054	45	8000	945	171	3240	591	17
55.0	4370	1081	46	8180	972	176	3250	618	18
59.5	4670	1126	48	9330	1017	187	3360	663	19
64.0	4990	1165	50	10580	1057	199	3480	703	20
68.5	5340	1205	52	11930	1096	211	3620	742	22
70.8	5420	1261	55	12590	1152	221	3660	798	23
75.3	5810	1300	57	14120	1191	234	3810	838	24
79.7	6080	1360	60	15490	1251	248	3930	897	26
Tower combination with base tower element BT 29									
84.2	6480	1406	62	17190	1297	262	4090	943	27

Caption:

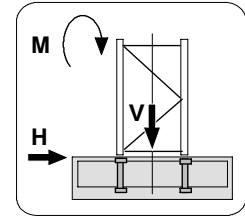
TH:	Tower height	V:	Vertical load
H:	Horizontal load	M:	Torque

4.4 Foundation loads jib 55 m

Slewing section 166 B with 55 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.



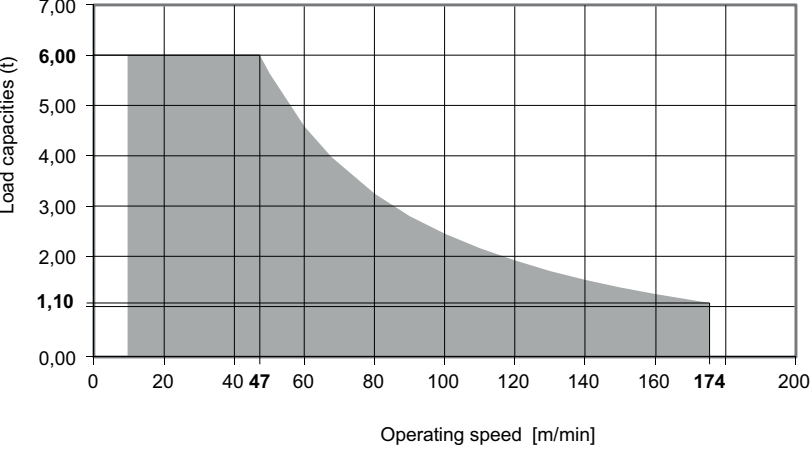


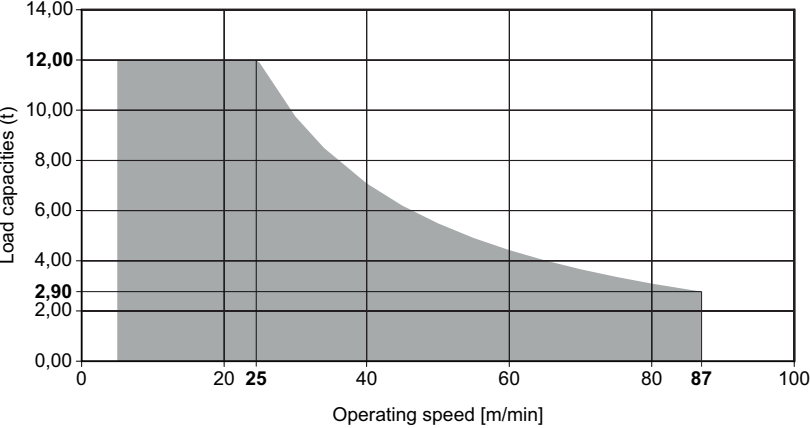


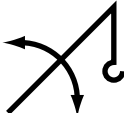

TH:	Crane in service			Crane out of service			Assembly		
	Slewing torque: 260 kNm			Wind category C25					
	M	V	H	M	V	H	M	V	H
[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
4.5	1980	823	28	2420	714	66	2910	350	7
9.0	2120	851	30	2740	742	72	2940	368	8
13.5	2270	880	32	3090	771	78	2990	386	9
18.0	2440	908	34	3480	799	85	3040	405	9
22.5	2620	936	35	3900	827	91	3110	423	10
27.0	2830	964	37	4370	856	97	3180	441	11
31.5	3050	993	39	4880	884	103	3260	459	12
36.0	3310	1021	41	5430	912	109	3360	477	13
40.5	3520	1049	43	6040	940	115	3440	587	16
45.0	3800	1078	45	6870	969	169	3550	615	17
49.5	4110	1106	47	8000	997	179	3680	643	18
50.5	4090	1072	46	7780	964	173	3650	610	17
55.0	4370	1117	48	8880	1008	184	3750	655	18
59.5	4680	1157	50	10090	1048	196	3870	694	20
64.0	5010	1196	52	11400	1087	208	4000	733	21
66.3	5110	1242	54	11990	1133	216	4050	779	22
70.8	5480	1281	56	13460	1173	228	4190	819	23
75.3	5880	1321	58	15060	1212	241	4350	858	24
Tower combination with base tower element BT 29									
79.7	6160	1380	61	16470	1272	255	4460	918	26

Caption:




TH:	Tower height	V:	Vertical load
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]
HW	Lifting / lowering		500	60	87.0 Total connected load at coincidence factor of 0.7
	 <p>Operating speed [m/min]</p>				
HW	Lifting / lowering		250	60	
	 <p>Operating speed [m/min]</p>				

Drive unit [type]	Operating speed Carrying load		Power [kW]
LG	Jib luffing in / out		22
	 <p>operating speeds [min]</p>		

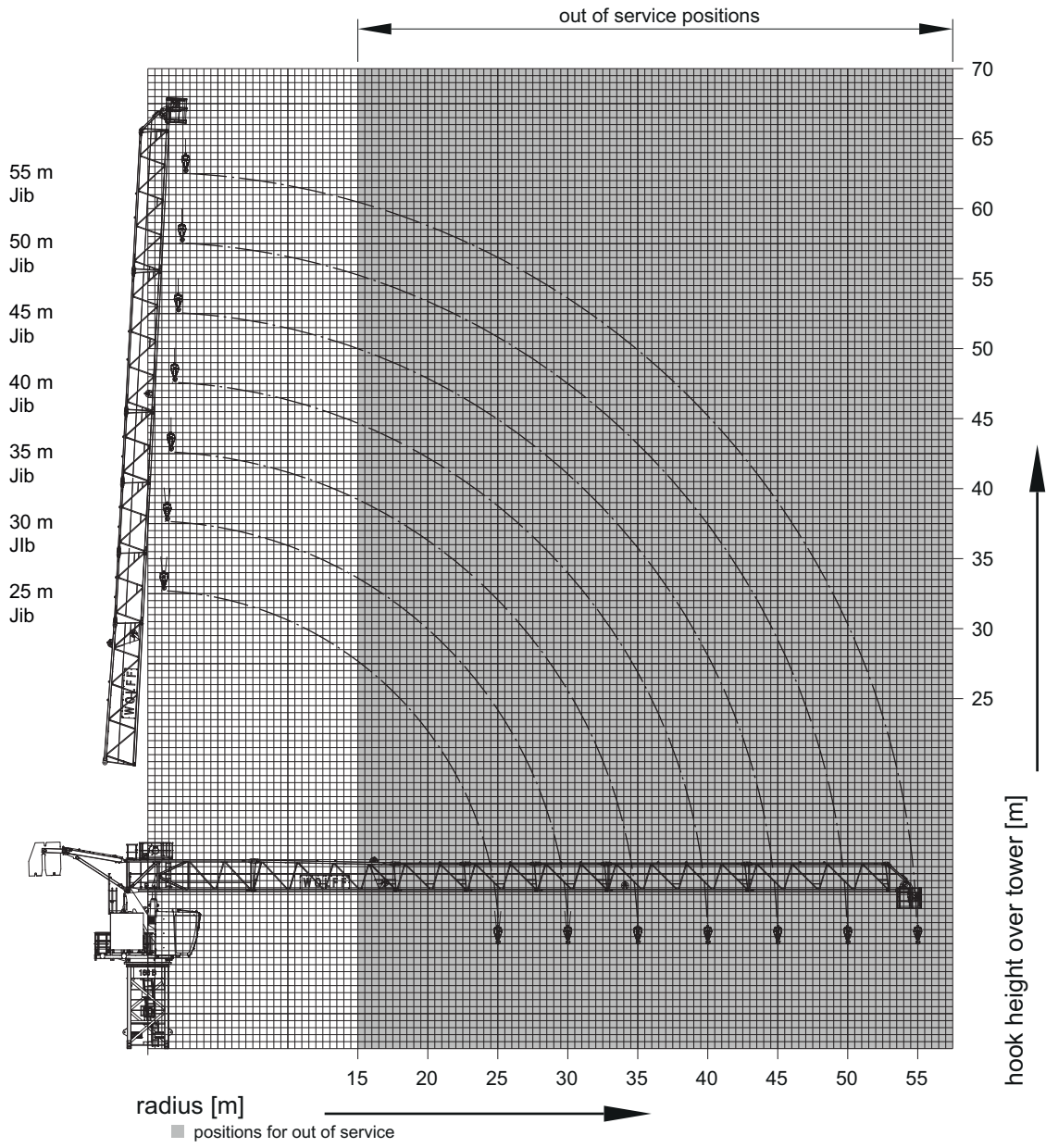
5 Operating speeds

Drive unit [type]	Operating speed Carrying load	Power [kW]	
SG	Slewing	7.5	
	 <p style="text-align: right; margin-right: 50px;">0,80</p> <p>Operating speed [min⁻¹]</p> 		

6 Out of service positions

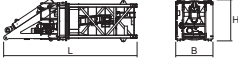





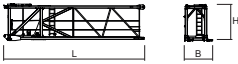
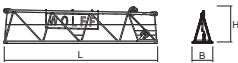


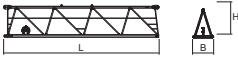






	<p style="text-align: center;">⚠ WARNING</p> <p>Parking the jib outside the area for the out of service position. The slewing tower crane may overturn.</p> <ul style="list-style-type: none">▶ Park the jib only in the grey shaded area for the out of service position.
	<p style="text-align: center;">NOTICE</p> <p>Out of service position with smaller operating radius.</p> <p>At your request, shutdown with smaller operating radius can be implemented in cases of reduced tower height or increased central ballast, and possibly use of a wind sail. Please contact WOLFFKRAN for information.</p>

6 Out of service positions



7 Package list


7.1 Package list 166 B

Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m ³]
1	Tower head section, complete		7.90	2.25	2.55	13120	45.33
1	Connecting block		3.30	1.45	2.50	5760	11.96
1	Tower head section lower part		5.90	2.30	2.45	7360	33.25
1	Driver's cab		5.20	1.90	2.55	2500	25.19
1	Counterjib		4.90	2.15	1.25	4060	13.17
1	Hoist winch Hw1260FU including hoisting rope (Ø 20 mm x 575 m) incl. platform		3.10	2.30	1.10	3020	7.84
1	Jib section 1		9.50	1.55	2.45	5270	36.08
1	Jib section 2		10.30	1.40	2.45	2330	35.33
2	Jib section 3		5.25	1.40	2.15	950	15.80
1	Jib section 4		5.25	1.40	2.15	830	15.80
1	Jib section 5		10.25	1.40	2.15	1520	30.85
1	Jib section 6		10.25	1.40	2.15	960	30.85
1	Jib section 7		2.90	1.40	2.00	450	8.12
1	Hook block U 8/16		1.45	0.65	0.30	600	0.28
1	Standard railings		2.05	1.10	0.65	160	1.47
6	Counterweight blocks		2.27	0.48	2.28	5200	2.48
1	Hook tackle 1 fall (option)		0.35	0.35	0.85	350	0.10

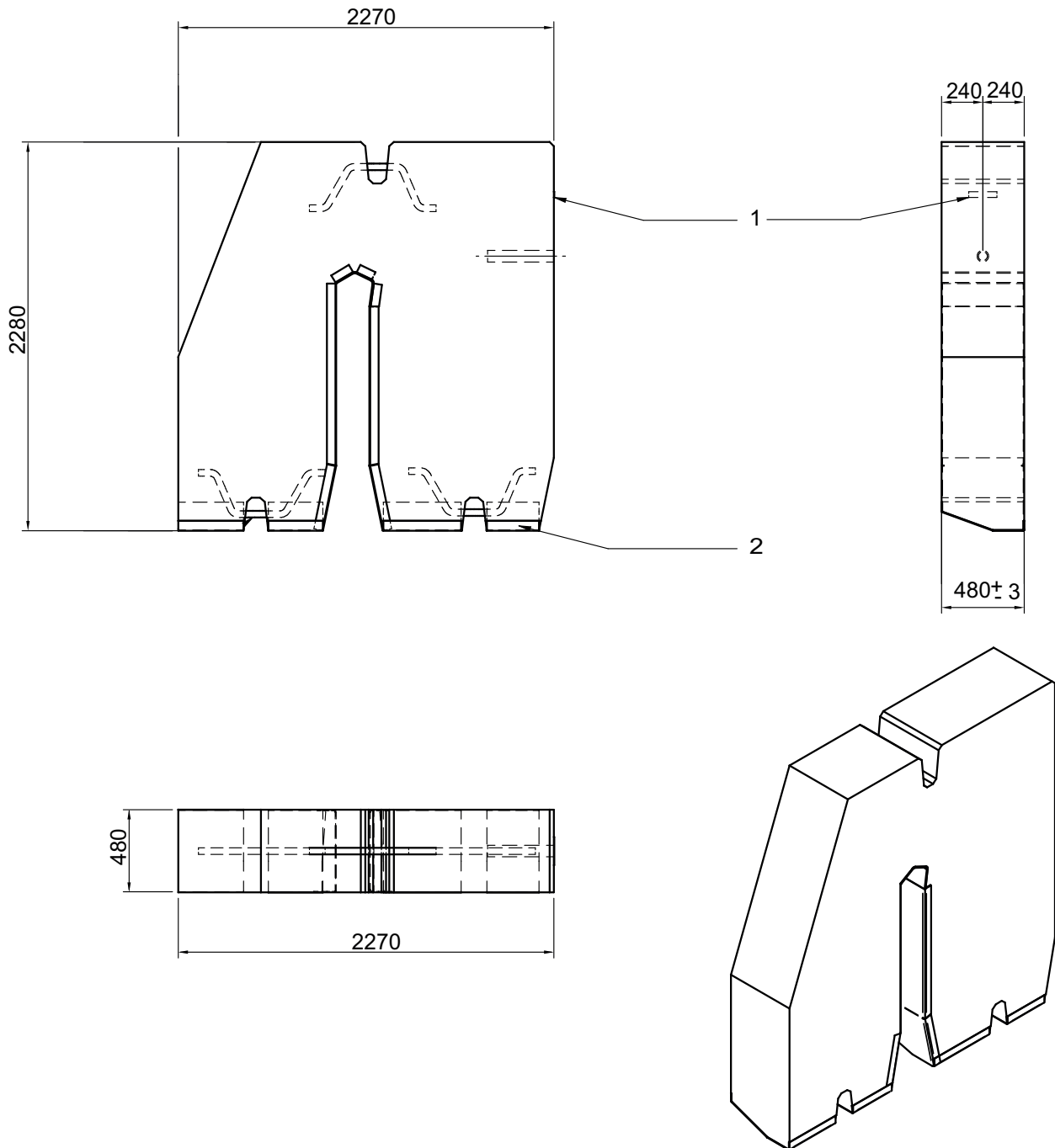
8 Assembly weights

8 Assembly weights

8.1 Counterweight blocks

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

8.1.1 Counterweight block, 5.2 t




Data counterweight block 5.2 t

Item	Data
Material	Concrete, min. C 25
Max. permitted weight tolerance	+/- 3 %
Order number	10030237
1	Component identifier

8 Assembly weights

Item	Data
2	Border protection

8.2 Total weight jib assembly

	NOTICE
	<p>The weight data applies to the hoisting rope length of the basic equipment. With greater hoisting rope lengths, the assembly weight increases by the extra weight of the additional hoisting rope.</p>

Jib, complete without counterjib

Jib complete: including hoisting gear with platform, 275 m hoisting rope, mechanical parts and hook block

Jib length [m]	Weight [kg] WOLFF 166 B
55.0	16330
50.0	15380
45.0	14560
40.0	14420
35.0	13600
30.0	12900
25.0	12080

Jib, complete with counterjib

Jib complete with counterjib: including hoisting gear with platform, 275 m hoisting rope, mechanical parts and hook block

Jib length [m]	Weight [kg] WOLFF 166 B
55.0	20390
50.0	19440
45.0	18620
40.0	18480
35.0	17660
30.0	16960
25.0	16140

8 Assembly weights

8.3 Assembly weight slewing section

Module	Crane parts	Weight [kg]	
Tower head section, complete			13120
Tower head section lower part			7360
	▪ Lower part of tower head section	3720	
	▪ Slewing frame + ball race bearing	3640	
Connecting block			5760
	▪ Connection block	3560	
	▪ Hydraulic unit	1400	
	▪ Hydraulic cylinder	800	

8.4 Assembly weight cross frame

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

8 Assembly weights

8.5 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	

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

8 Assembly weights

8.6 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	

8.7 Assembly weight undercarriage

Module	Crane part	Weight [kg]	
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	

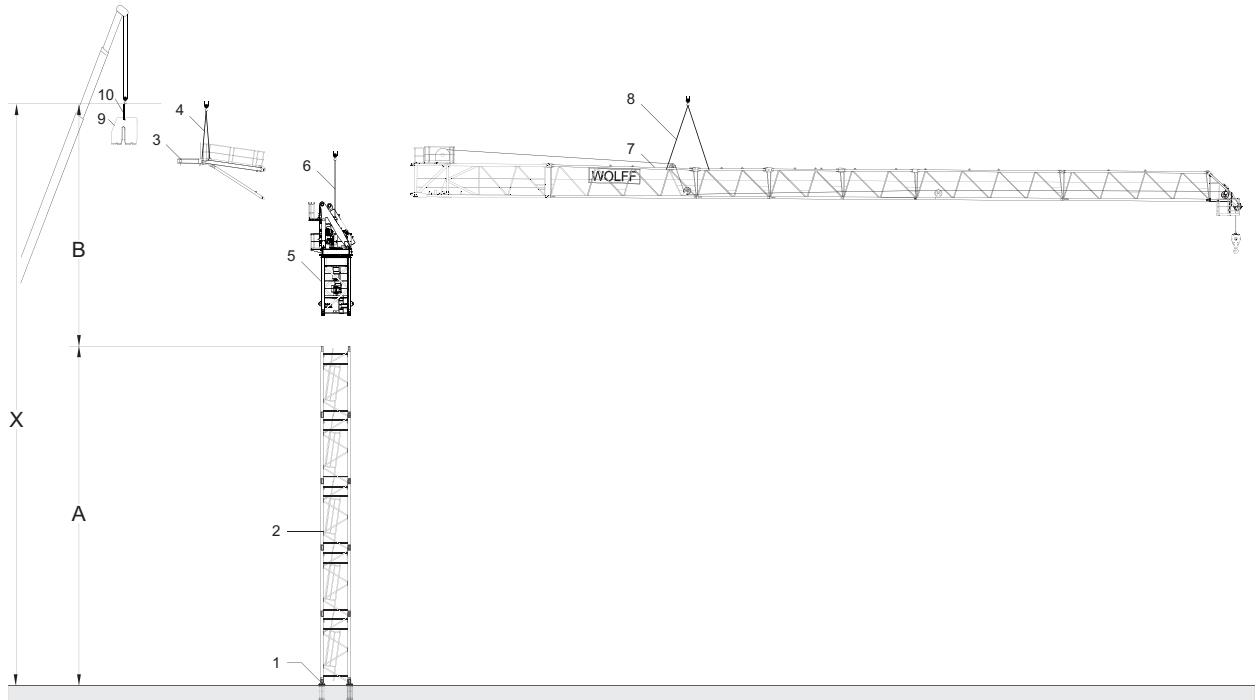
8 Assembly weights

8.8 Required hook height for mobile cranes

For information about the height of the WOLFF slewing tower crane, refer to Tower combinations [15].

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 16 m (B).



Exemplary illustration




[A]	Height of the WOLFF slewing tower crane	[B]	Clearance 16 m
[X]	Hook height above ground required for the mobile crane		
1	Substructure	6	2-fall attachment (4 m with shackle)
2	Tower element	7	Jib complete with hoisting gear and hook block.
3	Counterjib	8	4-fall attachment (4 m with shackle)
4	4-fall attachment (4 m with shackle)	9	Counterweight blocks
5	Tower head section, complete	10	Two-point lifting tackle (4 m with shackle)

(see also):

- Tower combinations [15]

9 Assembly diagrams

9.1 Jib attachment diagram

	<p style="text-align: center;">NOTICE</p> <p>For jib assembly, use a 4-fall attachment (4 m with shackle).</p>
	<p style="text-align: center;">NOTICE</p> <p>The details obtain to the hoisting rope length of the crane's basic equipment. With greater hoisting rope lengths the assembly weights increase by the extra weight of the additional hoisting rope. The center of gravity of the jib may change, check and adjust the lifting points if necessary.</p>
	<p style="text-align: center;">NOTICE</p> <p>The mounting rigs cannot be used at the lifting points of jib section 1. Fasten the 4 fall attachment with a suitable sling gear at the specified lifting points at both top boom profiles of jib section 1.</p>

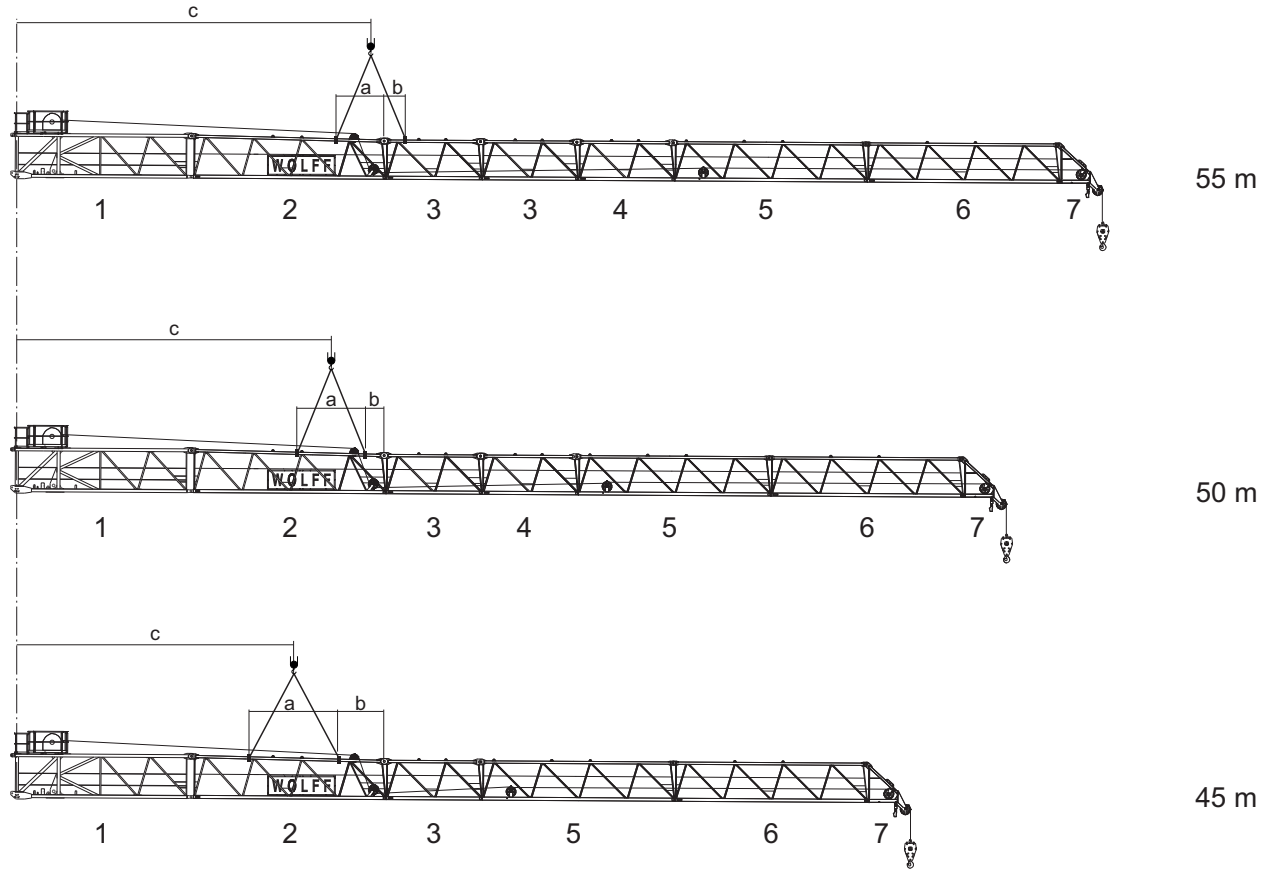
Length of jib elements

Item	Length [m]
Jib elements 2, 5, 6	10
Jib element 1	9
Jib elements 3, 4	5
Jib element 7	2

9 Assembly diagrams

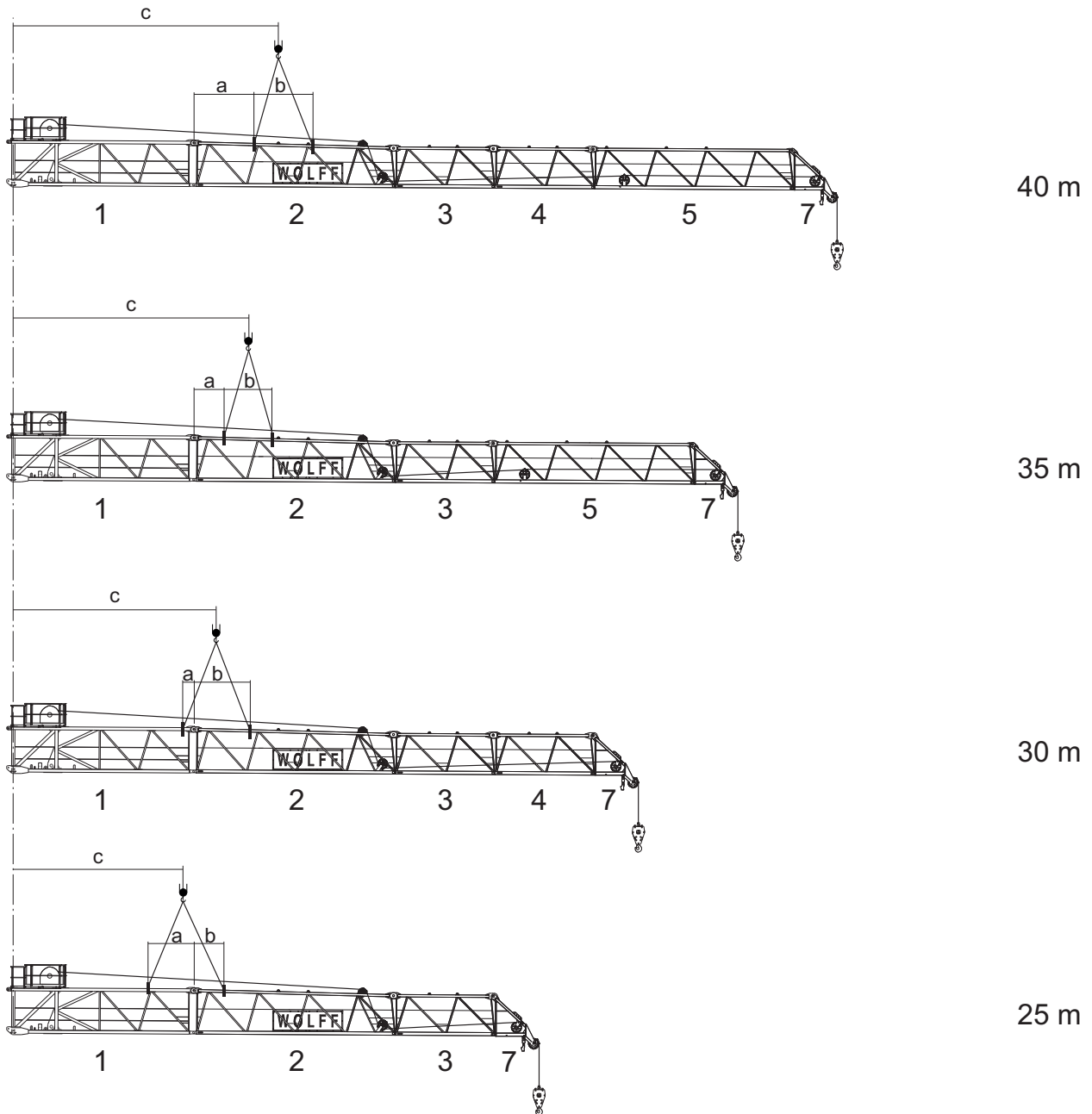
9.1.1 Assembly of the entire jib without counterjib

9.1.1.1 Jib attachment diagram 55 m to 45 m



Data	Jib length [m]		
	55	50	45
a [m]	2.80	3.77	4.62
b [m]	0.91	0.81	2.51
c [m]	18.00	16.30	14.20
Weight [kg]	16330	15380	14560

9.1.1.2 Jib attachment diagram 40 m to 25 m

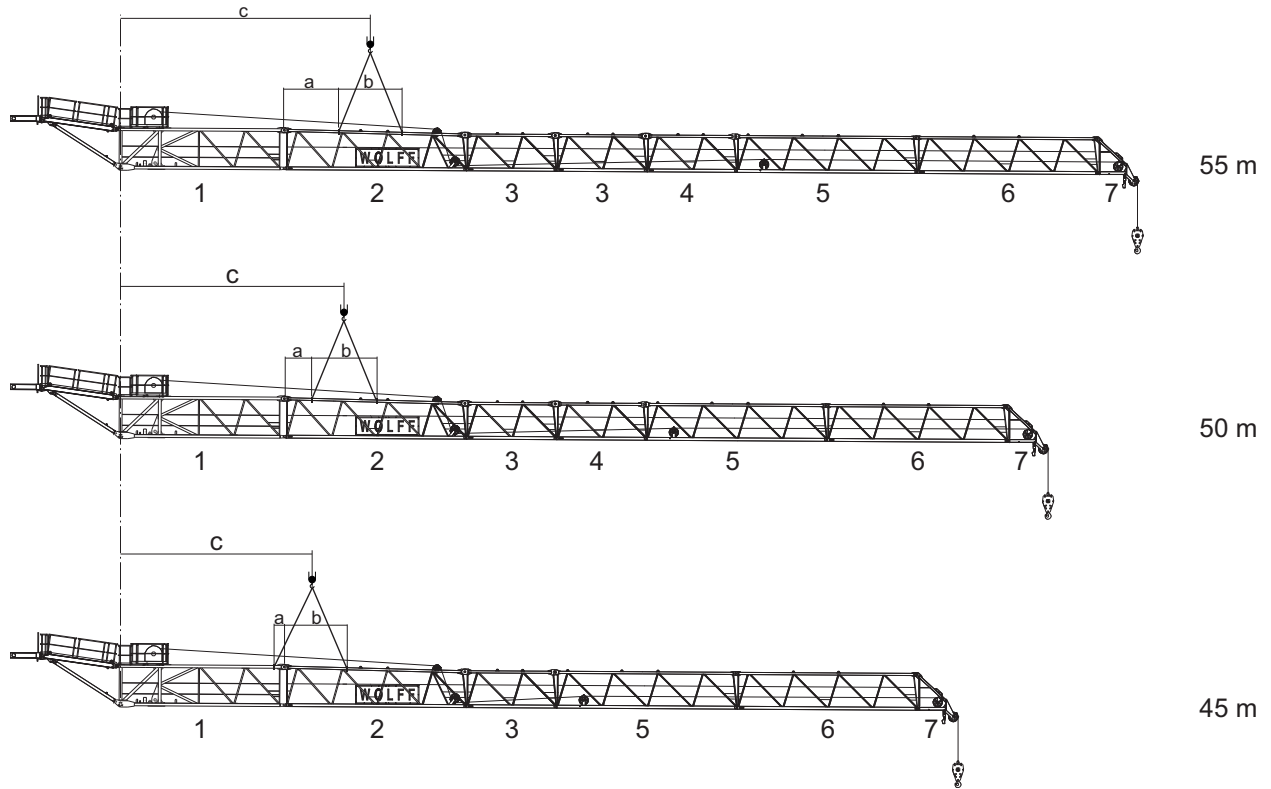


Data	Jib length [m]			
	40	35	30	25
a [m]	2.87	1.25	0.44	2.22
b [m]	2.95	2.84	2.39	1.54
c [m]	13.30	11.70	10.00	8.60
Weight [kg]	14420	13600	12900	12080

9 Assembly diagrams

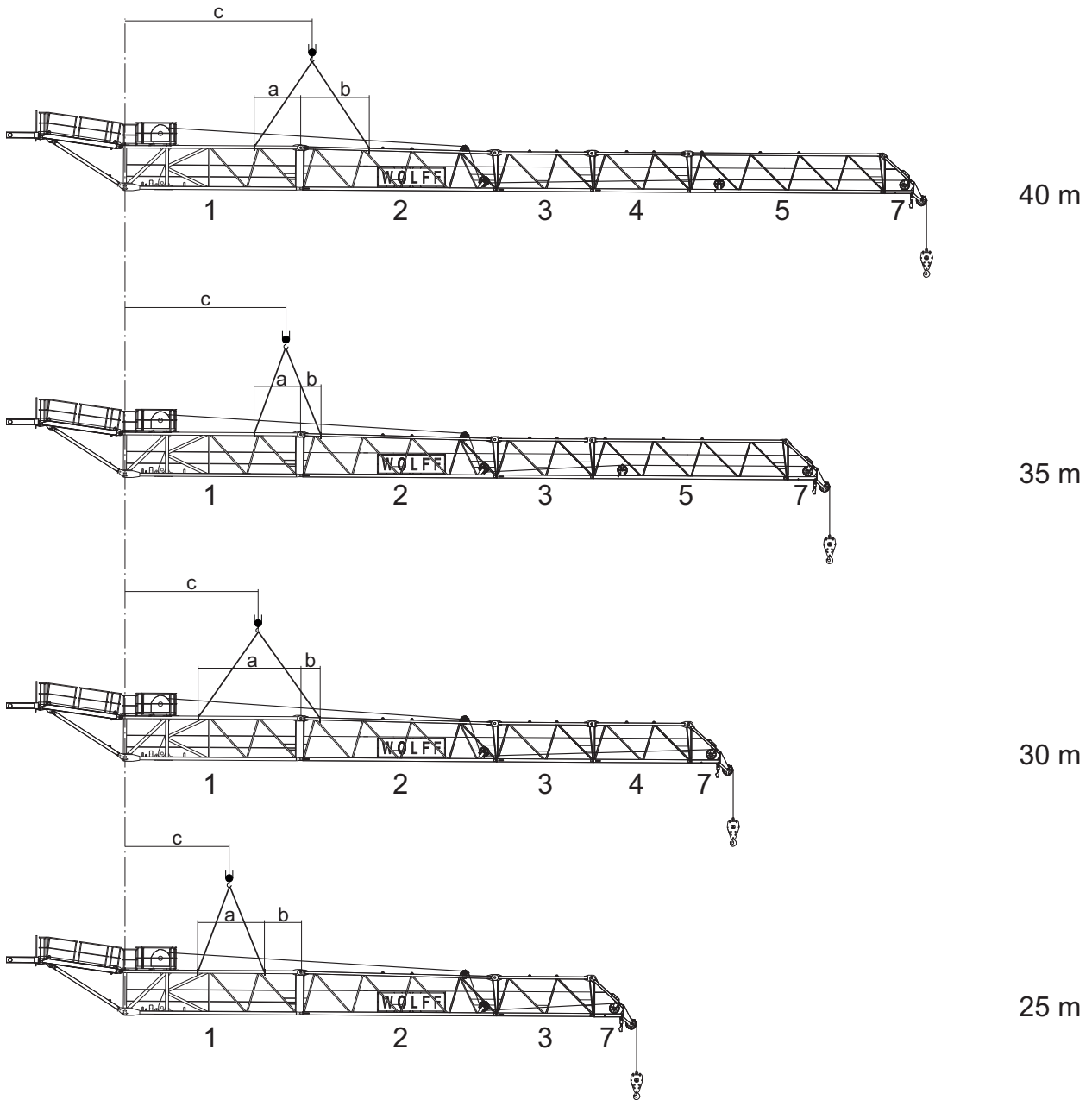
9.1.2 Assembly of the entire jib with counterjib

9.1.2.1 Jib attachment diagram 55 m to 45 m



Data	Jib length [m]		
	55	50	45
a [m]	2.87	1.25	0.44
b [m]	3.77	3.69	3.27
c [m]	13.70	12.10	10.40
Weight [kg]	20390	19440	18620

9.1.2.2 Jib attachment diagram 40 m to 25 m



Data	Jib length [m]			
	40	35	30	25
a [m]	2.22	2.22	5.08	3.06
b [m]	3.27	0.72	0.72	2.02
c [m]	9.50	8.20	6.80	5.40
Weight [kg]	18480	17660	16960	16140

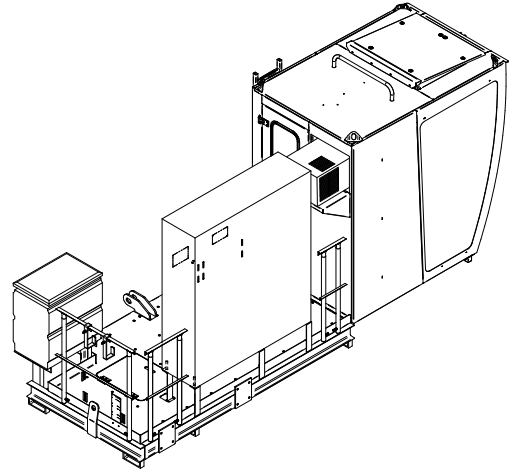
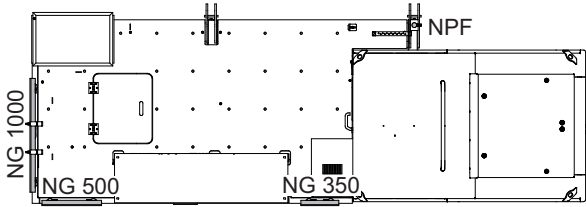
9 Assembly diagrams

9.2 Arrangement of standard railings

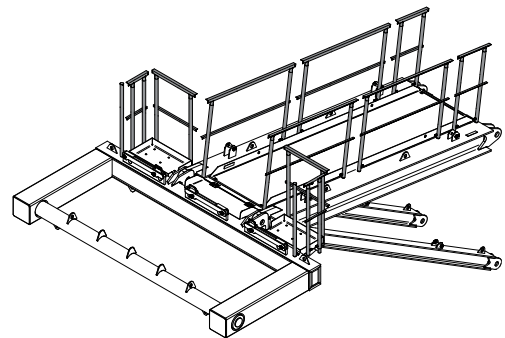
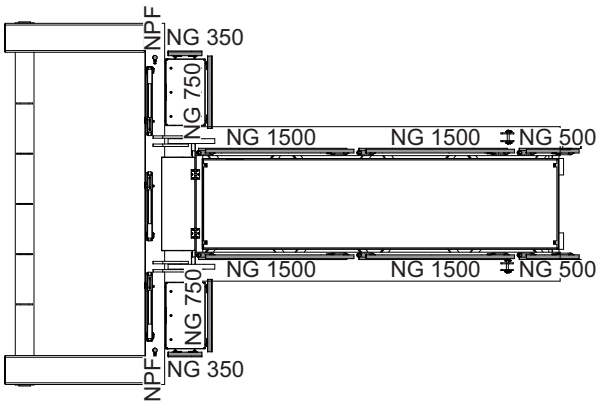
9.2.1 Standard railings (NG) and accessories

Quantity	Standard railings (NG)
5	Standard posts (NPF)
6	Standard railing 350
7	Standard railing 500
4	Standard railing 750
5	Standard railing 1000
5	Standard railing 1500
2	Standard railing 2000

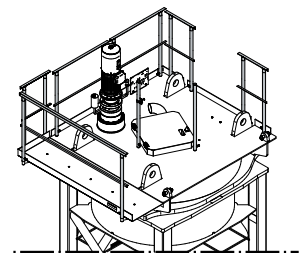
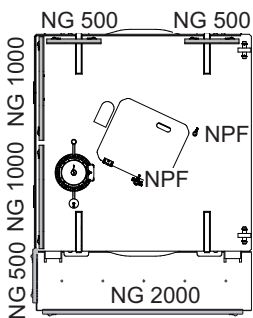
9.2.2 Arrangement of standard railings



Standard railings at the driver's cab station

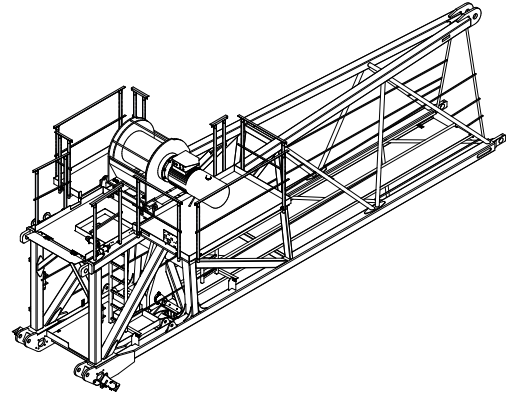
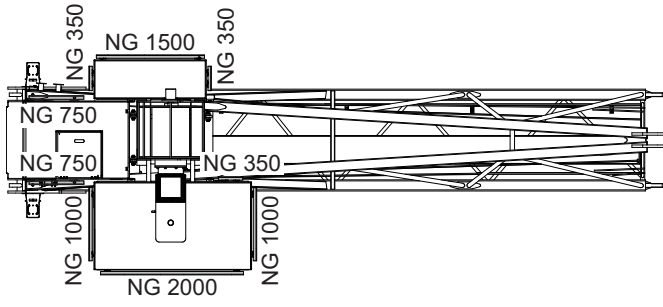


Standard railings at counterjib



Standard railings at tower head section lower part

9 Assembly diagrams







Standard railings at jib section 1

10 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>Details for climbing balancing The climbing balancing details obtain to the double reeving hook block which includes that the Hook position is on the same height as at hook heights in height of the bottom edge of the tower head section lower part (hook height = tower height).</p>
	<p style="text-align: center;">NOTICE</p> <p>If feasible, preferably operate your climbing device without balancing weight.</p>

10 Suitable climbing devices

10.1 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>

10.1.1 Outer climbing device KWH 20.3 / KWH 20.3.1

Climbing radius [m] for the balancing weights

166 B	Jib length [m]						
	55	50	45	40	35	30	25
no weight	22.4	28.7	35.1	34.3	-	-	-
UV 20 = 2.05 t	-	-	-	-	23.5	26.3	-
TV 20 = 2.98 t	-	-	-	-	17.0	20.8	-
Weight = 5.0 t	-	-	-	-	-	12.3	15.7

10 Suitable climbing devices


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

NOTICE! The assembly of the climbing device for the slewing tower crane W 166 B takes place in two-fall operation.


Climbing radius [m] for the balancing weights

166 B	Jib length [m]						
	55	50	45	40	35	30	25
no weight	21.7	28.0	34.5	33.9	-	-	-
UV 20 = 2.05 t	-	-	-	-	23.0	26.0	-
TV 20 = 2.98 t	-	-	-	-	16.5	20.3	-
Weight = 5.0 t	-	-	-	-	-	11.9	15.3

10.2 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.

10 Suitable climbing devices

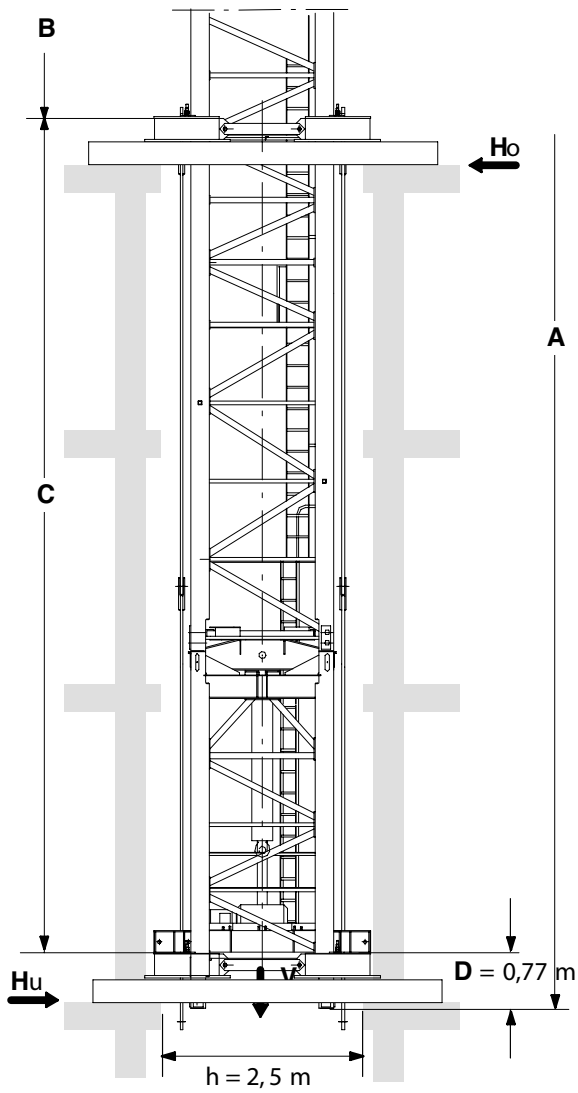
10.2.1 Inner climbing device KSH 20 SH

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	TVA 20.4
5	UV 20.4	UV 20.4	TVA 20.4	
6	TVA 20.4	TVA 20.4		
7	TV 20.4			
inner climbing device	KSH 20 SH	KSH 20 SH	KSH 20 SH	KSH 20 SH
Foundation anchors	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]	46.5	42.0	37.5	33.0

Climbing radius [m] for the balancing weights

166 B	Jib length [m]						
	55	50	45	40	35	30	25
no weight	49.3	-	-	-	-	-	-
UV 20 = 2.05 t	32.9	36.6	39.4	37.9	-	-	-
TV 20 = 2.98 t	27.9	30.9	33.8	33.5	-	-	-
Weight = 5.0 t	-	-	-	-	27.1	-	-
Weight = 10.0 t	-	-	-	-	-	16.3	17.8



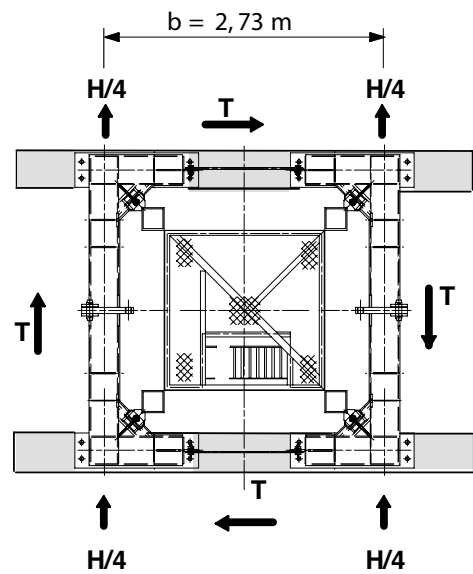
$$C_{\min} = 11,0 \text{ m}$$

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

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

$$H_u = H_o - H$$

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



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

10 Suitable climbing devices

In service clamping forces

In service clamping forces [kN] inside a building																
A [m]	46.5				42.0				37.5				33.0			
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	1140				1112				1094				1075			
Ho	330	310	280	260	310	290	270	250	290	270	250	230	280	250	230	220
Hu	290	260	240	220	270	240	220	200	250	230	210	190	230	210	190	180
T	48				48				48				48			

Out of service clamping forces

Out of service clamping forces [kN] inside a building																
A [m]	46.5				42.0				37.5				33.0			
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	1027				999				981				963			
Ho	910	830	770	720	800	740	680	630	710	650	600	560	620	570	520	490
Hu	640	570	500	450	550	480	430	380	470	410	360	310	390	330	290	250
T	-				-				-				-			

11 Arrangement of counterweight blocks

Jib length [m]	55	50	45	40	35	30	25
Total weight = 31.2 t							
	6 x 5.2 tons suspended concrete weight						

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