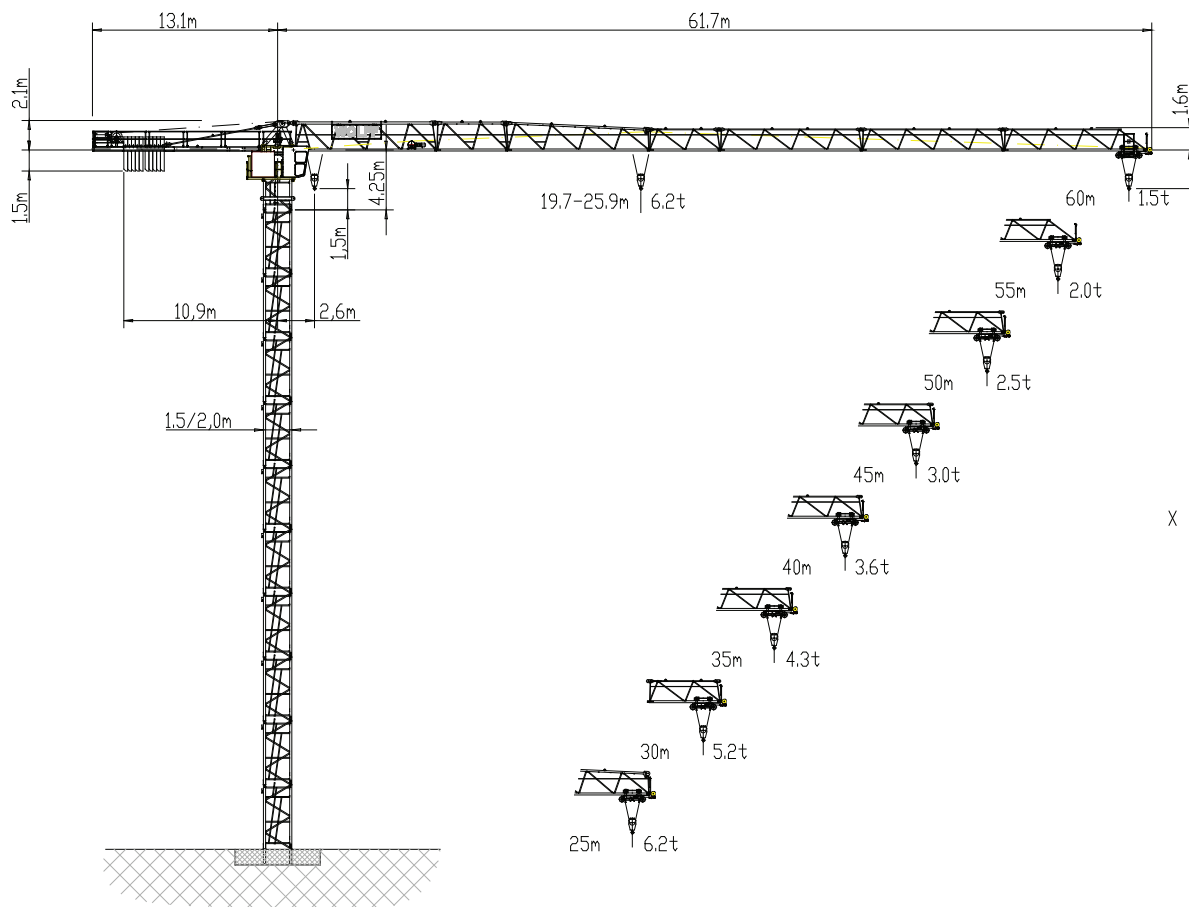


## 1 Schedule drawing

### 1.1 Schedule drawing, WOLFF 6015.6clear

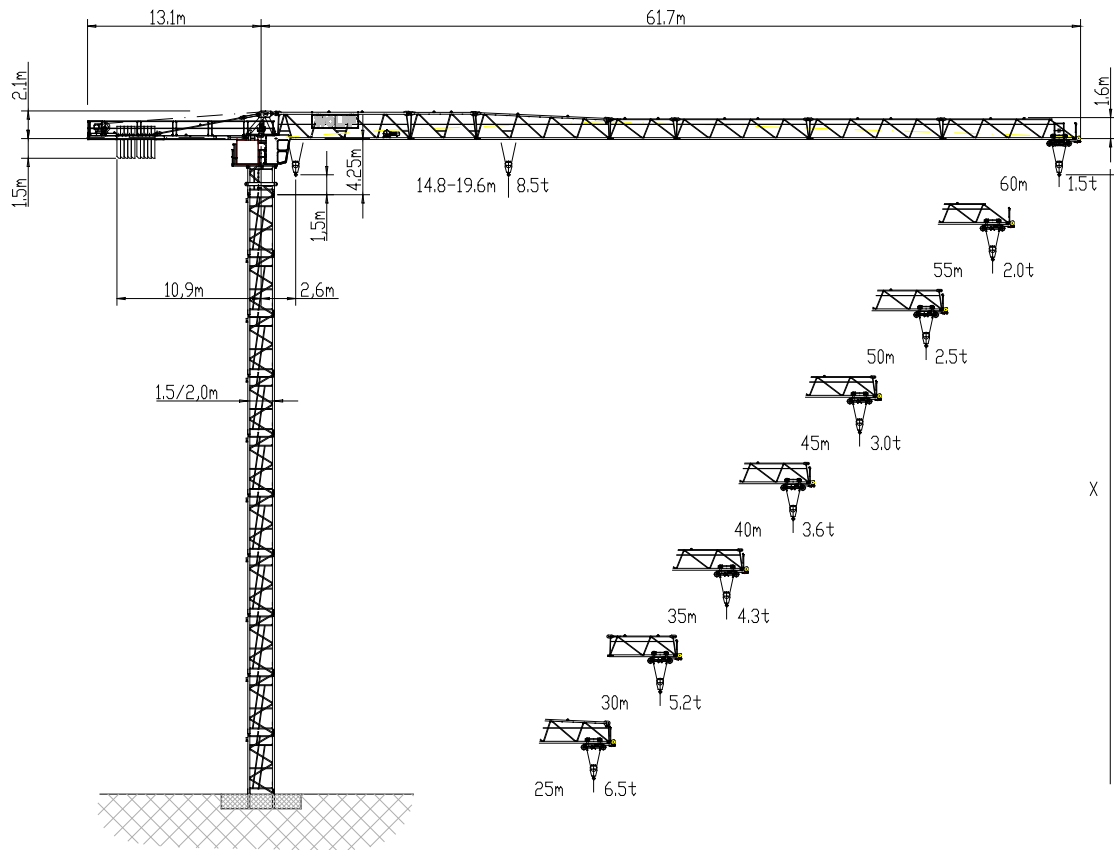


[X]	max. hook height above ground
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#### Data WOLFF 6015.6clear

Item	Data
Crane type	BGL GROUP C.0.10.0140
Design	Overhead travelling crane with top slewing trolley jib, with climbing feature
Type of setup	Stationary or travelling
Basis of calculation	EN
Payload torque	max. 1610 kN/m
Hoist winch	Hw 628FU

## 1.2 Schedule drawing, WOLFF 6015.8clear




[X] max. hook height above ground

### Data WOLFF 6015.8clear

Item	Data
Crane type	BGL GROUP C.0.10.0140
Design	Overhead travelling crane with top slewing trolley jib, with climbing feature
Type of setup	Stationary or travelling
Basis of calculation	EN
Payload torque	max. 1670 kN/m
Hoist winch	Hw 845FU

## 2 Load carrying capacities

### 2.1 Table of load carrying capacities, WOLFF 6015.6 clear (6.2 t)


 6.2 t		Operating radius [m]	20	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5	60	L-CC [t]	
JL [m]	60	2.6 – 19.7	6.2	4.7	4.2	3.8	3.4	3.1	2.9	2.7	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.5		
	57.5	2.6 – 21.4	6.2	5.2	4.6	4.2	3.8	3.5	3.2	2.9	2.7	2.5	2.3	2.2	2.0	1.9	1.8			
	55	2.6 – 22.0	6.2	5.4	4.8	4.3	3.9	3.6	3.3	3.1	2.8	2.6	2.4	2.3	2.1	2.0				
	52.5	2.6 – 22.5	6.2	5.5	4.9	4.5	4.0	3.7	3.4	3.1	2.9	2.7	2.5	2.4	2.2					
	50	2.6 – 23.6	6.2	5.8	5.2	4.7	4.3	3.9	3.6	3.3	3.1	2.9	2.7	2.5						
	47.5	2.6 – 23.8	6.2	5.9	5.2	4.7	4.3	4.0	3.6	3.4	3.1	2.9	2.7							
	45	2.6 – 24.4	6.2	6.0	5.4	4.9	4.5	4.1	3.8	3.5	3.2	3.0								
	42.5	2.6 – 24.9	6.2	6.2	5.5	5.0	4.6	4.2	3.8	3.6	3.3									
	40	2.6 – 25.1	6.2	6.2	5.6	5.1	4.6	4.2	3.9	3.6										
	37.5	2.6 – 25.2	6.2	6.2	5.6	5.1	4.6	4.2	3.9											
	35	2.6 – 25.5	6.2	6.2	5.7	5.2	4.7	4.3												
	32.5	2.6 – 25.5	6.2	6.2	5.7	5.2	4.7													
	30	2.6 – 25.7	6.2	6.2	5.7	5.2														
	27.5	2.6 – 25.9	6.2	6.2	5.8															
	25	2.6 – 25.0	6.2	6.2																
	JL			Jib length																
LCC			Load carrying capacity																	

The load carrying capacity is related to a hook range of 42.0 m. Hook ranges greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (double-reeving mode = 2.5 kg per meter of the hook range).

## 2.2 Table of load carrying capacities (kg) in meter intervals, WOLFF 6015.6 clear (6.2 t, double reeving mode)

Operating radius [m]	Jib length [m]														
	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5	60
20	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6100
21	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	5770
22	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6000	5470
23	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6200	6050	5900	5700	5200
24	6200	6200	6200	6200	6200	6200	6200	6200	6200	6130	6080	5760	5620	5430	4950
25	<b>6200</b>	<b>6200</b>	<b>6200</b>	<b>6200</b>	<b>6200</b>	<b>6200</b>	<b>6200</b>	<b>6170</b>	<b>6040</b>	<b>5850</b>	<b>5800</b>	<b>5500</b>	<b>5360</b>	<b>5180</b>	<b>4720</b>
26		6180	6120	6080	6070	5980	5970	5900	5780	5590	5550	5260	5120	4950	4510
27		5920	5870	5820	5810	5730	5720	5650	5530	5360	5310	5030	4900	4740	4310
27.5		<b>5800</b>	<b>5750</b>	<b>5700</b>	<b>5690</b>	<b>5610</b>	<b>5600</b>	<b>5540</b>	<b>5420</b>	<b>5250</b>	<b>5200</b>	<b>4930</b>	<b>4800</b>	<b>4640</b>	<b>4220</b>
28			5630	5580	5580	5490	5490	5420	5310	5140	5090	4830	4700	4540	4130
29			5410	5360	5360	5280	5270	5210	5100	4930	4890	4630	4510	4360	3960
30			<b>5200</b>	<b>5160</b>	<b>5150</b>	<b>5080</b>	<b>5070</b>	<b>5010</b>	<b>4900</b>	<b>4740</b>	<b>4700</b>	<b>4450</b>	<b>4330</b>	<b>4180</b>	<b>3800</b>
31				4970	4960	4890	4880	4820	4720	4560	4520	4280	4170	4020	3650
32				4790	4780	4710	4700	4650	4540	4400	4360	4120	4010	3870	3510
32.5				<b>4700</b>	<b>4690</b>	<b>4620</b>	<b>4620</b>	<b>4560</b>	<b>4460</b>	<b>4320</b>	<b>4280</b>	<b>4050</b>	<b>3940</b>	<b>3800</b>	<b>3450</b>
33					4610	4540	4530	4480	4380	4240	4200	3970	3870	3730	3380
34					4450	4380	4380	4330	4230	4090	4050	3830	3730	3600	3260
35					<b>4300</b>	<b>4240</b>	<b>4230</b>	<b>4180</b>	<b>4090</b>	<b>3950</b>	<b>3910</b>	<b>3700</b>	<b>3600</b>	<b>3470</b>	<b>3140</b>
36						4100	4090	4040	3950	3820	3780	3580	3480	3350	3030
37						3960	3960	3910	3820	3690	3660	3460	3360	3240	2930
37.5						<b>3900</b>	<b>3890</b>	<b>3850</b>	<b>3760</b>	<b>3630</b>	<b>3600</b>	<b>3400</b>	<b>3310</b>	<b>3190</b>	<b>2880</b>
38							3830	3790	3700	3580	3540	3340	3250	3130	2830
39							3710	3670	3580	3460	3430	3240	3150	3030	2740
40							<b>3600</b>	<b>3560</b>	<b>3480</b>	<b>3360</b>	<b>3330</b>	<b>3140</b>	<b>3050</b>	<b>2940</b>	<b>2650</b>
41								3450	3370	3250	3220	3040	2960	2850	2570
42								3350	3270	3160	3130	2950	2870	2760	2490
42.5								<b>3300</b>	<b>3220</b>	<b>3110</b>	<b>3080</b>	<b>2910</b>	<b>2820</b>	<b>2720</b>	<b>2450</b>
43									3180	3070	3040	2860	2780	2680	2410
44									3090	2980	2950	2780	2700	2600	2340
45									<b>3000</b>	<b>2890</b>	<b>2870</b>	<b>2700</b>	<b>2620</b>	<b>2520</b>	<b>2270</b>
46										2810	2790	2620	2550	2450	2200
47										2740	2710	2550	2480	2380	2140
47.5										<b>2700</b>	<b>2670</b>	<b>2520</b>	<b>2440</b>	<b>2350</b>	<b>2110</b>
48											2640	2480	2410	2310	2080
49												2570	2410	2340	2020
50												<b>2500</b>	<b>2350</b>	<b>2280</b>	<b>2190</b>
51													2290	2220	1910
52														2160	1850
52.5														<b>2200</b>	<b>2130</b>
53															2110
54															2020
55															2050
56															<b>2000</b>
57															1920
58															1870
59															1820
60															1820
															<b>1800</b>
															<b>1600</b>
															1580
															1540
															<b>1500</b>

## 2.3 Table of load carrying capacities, WOLFF 6015.8 clear (8.5 t)





 8.5 t		Operating radius [m]	20	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5	60	L-C-C [t]	
			JL		LCC															
JL [m]	60	2.6 – 14.8	6.1	4.7	4.2	3.8	3.4	3.1	2.9	2.7	2.4	2.3	2.1	2.0	1.8	1.7	1.6	1.5		
	57.5	2.6 – 16.1	6.7	5.2	4.6	4.2	3.8	3.5	3.2	2.9	2.7	2.5	2.3	2.2	2.0	1.9	1.8			
	55	2.6 – 16.6	6.9	5.4	4.8	4.3	3.9	3.6	3.3	3.1	2.8	2.6	2.4	2.3	2.1	2.0				
	52.5	2.6 – 16.9	7.1	5.5	4.9	4.5	4.0	3.7	3.4	3.1	2.9	2.7	2.5	2.4	2.2					
	50	2.6 – 17.7	7.5	5.8	5.2	4.7	4.3	3.9	3.6	3.3	3.1	2.9	2.7	2.5						
	47.5	2.6 – 17.9	7.5	5.9	5.2	4.7	4.3	4.0	3.6	3.4	3.1	2.9	2.7							
	45	2.6 – 18.4	7.8	6.0	5.4	4.9	4.5	4.1	3.8	3.5	3.2	3.0								
	42.5	2.6 – 18.7	7.9	6.2	5.5	5.0	4.6	4.2	3.8	3.6	3.3									
	40	2.6 – 18.9	8.0	6.2	5.6	5.1	4.6	4.2	3.9	3.6										
	37.5	2.6 – 19.0	8.0	6.3	5.6	5.1	4.6	4.2	3.9											
	35	2.6 – 19.2	8.1	6.3	5.7	5.2	4.7	4.3												
	32.5	2.6 – 19.2	8.1	6.4	5.7	5.2	4.7													
	30	2.6 – 19.4	8.2	6.4	5.7	5.2														
	27.5	2.6 – 19.5	8.3	6.5	5.8															
	25	2.6 – 19.6	8.3	6.5																
	JL		Jib length																	
LCC		Load carrying capacity																		

The load carrying capacity is related to a hook range of 42.0 m. Hook ranges greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (double-reeving mode = 2.5 kg per meter of the hook range).

## 2.4 Table of load carrying capacities (kg) in meter intervals, WOLFF 6015.8 clear (8.5 t, double reeving)

Operating radius [m]	Jib length [m]														
	25	27.5	30	32.5	35	37.5	40	42.5	45	47.5	50	52.5	55	57.5	60
17	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8500	8460	8260	7990	7320
18	8500	8500	8500	8500	8500	8500	8500	8500	8500	8440	8370	7950	7760	7510	6870
19	8500	8500	8500	8500	8500	8480	8460	8370	8200	7950	7880	7490	7310	7070	6460
20	8330	8280	8200	8140	8130	8010	8000	7910	7750	7510	7450	7080	6900	6680	6100
21	7890	7840	7770	7710	7700	7590	7580	7500	7340	7120	7060	6700	6530	6320	5770
22	7500	7450	7380	7330	7310	7210	7200	7120	6970	6760	6700	6360	6200	6000	5470
23	7130	7090	7030	6970	6960	6860	6850	6780	6630	6430	6370	6050	5900	5700	5200
24	6800	6760	6700	6650	6640	6540	6530	6460	6330	6130	6080	5760	5620	5430	4950
<b>25</b>	<b>6500</b>	<b>6460</b>	<b>6400</b>	<b>6350</b>	<b>6340</b>	<b>6250</b>	<b>6240</b>	<b>6170</b>	<b>6040</b>	<b>5850</b>	<b>5800</b>	<b>5500</b>	<b>5360</b>	<b>5180</b>	<b>4720</b>
26		6180	6120	6080	6070	5980	5970	5900	5780	5590	5550	5260	5120	4950	4510
27		5920	5870	5820	5810	5730	5720	5650	5530	5360	5310	5030	4900	4740	4310
<b>27.5</b>		<b>5800</b>	<b>5750</b>	<b>5700</b>	<b>5690</b>	<b>5610</b>	<b>5600</b>	<b>5540</b>	<b>5420</b>	<b>5250</b>	<b>5200</b>	<b>4930</b>	<b>4800</b>	<b>4640</b>	<b>4220</b>
28			5630	5580	5580	5490	5490	5420	5310	5140	5090	4830	4700	4540	4130
29			5410	5360	5360	5280	5270	5210	5100	4930	4890	4630	4510	4360	3960
<b>30</b>			<b>5200</b>	<b>5160</b>	<b>5150</b>	<b>5080</b>	<b>5070</b>	<b>5010</b>	<b>4900</b>	<b>4740</b>	<b>4700</b>	<b>4450</b>	<b>4330</b>	<b>4180</b>	<b>3800</b>
31				4970	4960	4890	4880	4820	4720	4560	4520	4280	4170	4020	3650
32				4790	4780	4710	4700	4650	4540	4400	4360	4120	4010	3870	3510
<b>32.5</b>				<b>4700</b>	<b>4690</b>	<b>4620</b>	<b>4620</b>	<b>4560</b>	<b>4460</b>	<b>4320</b>	<b>4280</b>	<b>4050</b>	<b>3940</b>	<b>3800</b>	<b>3450</b>
33					4610	4540	4530	4480	4380	4240	4200	3970	3870	3730	3380
34					4450	4380	4380	4330	4230	4090	4050	3830	3730	3600	3260
<b>35</b>					<b>4300</b>	<b>4240</b>	<b>4230</b>	<b>4180</b>	<b>4090</b>	<b>3950</b>	<b>3910</b>	<b>3700</b>	<b>3600</b>	<b>3470</b>	<b>3140</b>
36						4100	4090	4040	3950	3820	3780	3580	3480	3350	3030
37						3960	3960	3910	3820	3690	3660	3460	3360	3240	2930
<b>37.5</b>						<b>3900</b>	<b>3890</b>	<b>3850</b>	<b>3760</b>	<b>3630</b>	<b>3600</b>	<b>3400</b>	<b>3310</b>	<b>3190</b>	<b>2880</b>
38							3830	3790	3700	3580	3540	3340	3250	3130	2830
39							3710	3670	3580	3460	3430	3240	3150	3030	2740
<b>40</b>							<b>3600</b>	<b>3560</b>	<b>3480</b>	<b>3360</b>	<b>3330</b>	<b>3140</b>	<b>3050</b>	<b>2940</b>	<b>2650</b>
41								3450	3370	3250	3220	3040	2960	2850	2570
42								3350	3270	3160	3130	2950	2870	2760	2490
<b>42.5</b>								<b>3300</b>	<b>3220</b>	<b>3110</b>	<b>3080</b>	<b>2910</b>	<b>2820</b>	<b>2720</b>	<b>2450</b>
43									3180	3070	3040	2860	2780	2680	2410
44									3090	2980	2950	2780	2700	2600	2340
<b>45</b>									<b>3000</b>	<b>2890</b>	<b>2870</b>	<b>2700</b>	<b>2620</b>	<b>2520</b>	<b>2270</b>
46										2810	2790	2620	2550	2450	2200
47										2740	2710	2550	2480	2380	2140
<b>47.5</b>										<b>2700</b>	<b>2670</b>	<b>2520</b>	<b>2440</b>	<b>2350</b>	<b>2110</b>
48											2640	2480	2410	2310	2080
49											2570	2410	2340	2250	2020
<b>50</b>											<b>2500</b>	<b>2350</b>	<b>2280</b>	<b>2190</b>	<b>1960</b>
51												2290	2220	2130	1910
52												2230	2160	2080	1850
<b>52.5</b>												<b>2200</b>	<b>2130</b>	<b>2050</b>	<b>1830</b>
53													2110	2020	1800
54													2050	1970	1760
<b>55</b>													<b>2000</b>	<b>1920</b>	<b>1710</b>
56														1870	1660
57														1820	1620
<b>57.5</b>														<b>1800</b>	<b>1600</b>
58															1580
59															1540
<b>60</b>															<b>1500</b>

## 3 Tower combinations

	<p><b>⚠ DANGER</b></p> <p>Usage of incorrect tower combinations. The slewing tower crane may overturn.</p> <ol style="list-style-type: none"><li>1) Use the specified tower combinations.</li><li>2) If you need another tower combination that is not specified here, please contact WOLFFKRAN to get an approved alternative setup in writing.</li></ol>
	<p><b>NOTICE</b></p> <p>All tower combinations apply to free standing slewing tower cranes without climbing gear.</p>
	<p><b>NOTICE</b></p> <p>The TFS 20 tower element is without climbing feature.</p>
	<p><b>NOTICE</b></p> <p>For tower combination with tower element TV 25 and UV 25 please contact WOLFFKRAN.</p>

## 3.1 Tower combinations on foundation (UV 15 connection)

Jib length	25 m – 60 m				
Item					
1	4.5 m	UV 15.4	UV 15.4	UV 15.4	
2	9.0 m	UV 15.4	UV 15.4	UV 15.4	
3	13.5 m	UV 15.4	UV 15.4	UV 15.4	
4	18.0 m	UV 15.4	UV 15.4	UV 15.4	
5	22.5 m	UV 15.4	UV 15.4	UV 15.4	
6	27.0 m	UV 15.4	UV 15.4	UV 15.4	
7	31.5 m	UV 15.4	UV 15.4	UV 15.4	
8	36.0 m	UV 15.4	UV 15.4	UV 15.4	
9	40.5 m	UV 15.4	UV 15.4	UVÜ 15.4	
10	45.0 m	UV 15.4	UVÜ 15.4	UV 20.4	
11	49.5 m		UV 20.4	UV 20.4	
12	54.0 m		UV 20.4	TVA 20.4	
13	58.5 m			TV 20.4	
14	63.0 m			TV 20.4	
15	67.5 m			TV 20.4	
16	72.0 m			TV 20.4	
Foundation		FUA 120 type C-120	FUA 120 type C-120	FUA 140 type D-140	
Tower height [m]		45.0	54.0	72.0	
Hook height double reeving [m]		46.5	55.5	73.5	



# WOLFFKRAN

Jib length	25 m – 60 m			
Item				
1	4.5 m	UV 15.4		
2	9.0 m	UV 15.4		
3	13.5 m	UV 15.4		
4	18.0 m	UV 15.4		
5	22.5 m	UV 15.4		
6	27.0 m	UV 15.4		
7	31.5 m	UV 15.4		
8	36.0 m	UV 15.4		
9	40.5 m	UVÜ 15.4		
10	45.0 m	UV 20.4		
11	49.5 m	UV 20.4		
12	54.0 m	TVA 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	67.5 m	TV 20.4		
16	72.0 m	TV 20.4		
17	73.0 m	VR 2023		
18	77.5 m	TV 23		
Foundation		FUA 140 type D-140		
Tower height [m]		77.5		
Hook height double reeving [m]		79.0		

# WOLFFKRAN

Jib length	25 m – 60 m			
Item				
1	4.5 m	UV 15.4		
2	9.0 m	UV 15.4		
3	13.5 m	UV 15.4		
4	18.0 m	UV 15.4		
5	22.5 m	UV 15.4		
6	27.0 m	UV 15.4		
7	31.5 m	UV 15.4		
8	36.0 m	UV 15.4		
9	40.5 m	UVÜ 15.4		
10	45.0 m	UV 20.4		
11	49.5 m	TVA 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		
16	68.5 m	VR 2023		
17	73.0 m	TV 23		
18	77.5 m	HTA 23		
19	82.0 m	HT 23		
20	86.5 m	HT 23		
21	91.0 m	HT 23		
Foundation		FUA G 160		
Tower height [m]		91.0		
Hook height double reeving [m]		92.5		





## 3.2 Tower combinations on foundation (TFS20 connection)

**NOTICE! The TFS 20 tower element is without climbing feature.**

Jib length	25 m – 60 m			
Item				
1	4.5 m	TFS 20	TFS 20	TFS 20
2	9.0 m	TFS 20	TFS 20	TFS 20
3	13.5 m	TFS 20	TFS 20	TFS 20
4	18.0 m	TFS 20	TFS 20	TFS 20
5	22.5 m	TFS 20	TFS 20	TFS 20
6	27.0 m	TFS 20	TFS 20.4	TFS 20.4
7	31.5 m	TFS 20.4	TFS 20.4	TFS 20.4
8	36.0 m	TFS 20.4	TFS 20.4	TFS 20.4
9	40.5 m	TFS 20.4	TFS 20.4	UVA 20.4
10	45.0 m	TFS 20.4	UVA 20.4	UV 20.4
11	49.5 m		UV 20.4	UV 20.4
12	54.0 m		UV 20.4	TVA 20.4
13	58.5 m			TV 20.4
14	63.0 m			TV 20.4
15	67.5 m			TV 20.4
16	72.0 m			TV 20.4
Foundation		FUA B.4 FUA 93	FUA 120 type C-120	FUA 140 type D-140
Tower height [m]		45.0	54.0	72.0
Hook height double reeving [m]		46.5	55.5	73.5

# WOLFFKRAN

Jib length	25 m – 60 m			
Item				
1	4.5 m	TFS 20		
2	9.0 m	TFS 20		
3	13.5 m	TFS 20		
4	18.0 m	TFS 20		
5	22.5 m	TFS 20		
6	27.0 m	TFS 20.4		
7	31.5 m	TFS 20.4		
8	36.0 m	TFS 20.4		
9	40.5 m	UVA 20.4		
10	45.0 m	UV 20.4		
11	49.5 m	UV 20.4		
12	54.0 m	TVA 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	67.5 m	TV 20.4		
16	72.0 m	TV 20.4		
17	73.0 m	VR 2023		
18	77.5 m	TV 23		
Foundation		FUA 140 type D-140		
Tower height [m]		77.5		
Hook height double reeving [m]		79.0		

Jib length	25 m – 60 m			
Item				
1	4.5 m	TFS 20		
2	9.0 m	TFS 20		
3	13.5 m	TFS 20		
4	18.0 m	TFS 20		
5	22.5 m	TFS 20		
6	27.0 m	TFS 20.4		
7	31.5 m	TFS 20.4		
8	36.0 m	TFS 20.4		
9	40.5 m	UVA 20.4		
10	45.0 m	UV 20.4		
11	49.5 m	TVA 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		
16	68.5 m	VR 2023		
17	73.0 m	TV 23		
18	77.5 m	HTA 23		
19	82.0 m	HT 23		
20	86.5 m	HT 23		
21	91.0 m	HT 23		
Foundation		FUA 140 type D-140		
Tower height [m]		91.0		
Hook height double reeving [m]		92.5		







## 3.3 Tower combinations on foundation (UV 20 connection)

Jib length	25 m – 60 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	UV 20.4	UV 20.4	
10	45.0 m	UV 20.4	UV 20.4	
11	49.5 m	UV 20.4	UV 20.4	
12	54.0 m	UV 20.4	TVA 20.4	
13	58.5 m		TV 20.4	
14	63.0 m		TV 20.4	
15	67.5 m		TV 20.4	
16	72.0 m		TV 20.4	
Foundation		FUA 120 type C-120	FUA 140 type D-140	
Tower height [m]		54.0	72.0	
Hook height double reeving [m]		55.0	73.5	

# WOLFFKRAN

Jib length	25 m – 60 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	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	UV 20.4		
11	49.5 m	UV 20.4		
12	54.0 m	TVA 20.4		
13	58.5 m	TV 20.4		
14	63.0 m	TV 20.4		
15	67.5 m	TV 20.4		
16	72.0 m	TV 20.4		
17	73.0 m	VR 2023		
18	77.5 m	TV 23		
Foundation		FUA 140 type D-140		
Tower height [m]		77.5		
Hook height double reeving [m]		79.0		

# WOLFFKRAN

Jib length	25 m – 60 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	UV 20.4		
9	40.5 m	UV 20.4		
10	45.0 m	UV 20.4		
11	49.5 m	TVA 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		
16	68.5 m	VR 2023		
17	73.0 m	TV 23		
18	77.5 m	HTA 23		
19	82.0 m	HT 23		
20	86.5 m	HT 23		
21	91.0 m	HT 23		
Foundation		FUA G 160		
Tower height [m]		91.0		
Hook height double reeving [m]		92.5		





## 3.4 Tower combinations on cross frame (UV 15.4 connection)

Item						
1	4.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
2	9.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
3	13.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
4	18.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
5	22.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
6	27.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
7	31.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
8	36.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	
9	40.5 m	UV 15.4	UV 15.4	UVÜ 15.4	UVÜ 15.4	
10	45.0 m			UV 20.4	UV 20.4	
11	49.5 m			UV 20.4	UV 20.4	
12	54.0 m			TVA 20.4	TVA 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	
16	72.0 m				TVÜ 20.4	
Substructure		KRV 7-32	KRV 7-32/46 KR 8-46	KR 10-46 KR 10-46/60	KR 1000-8	
[m x m]		3.2 x 3.2	4.6 x 4.6	4.6 x 4.6 6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		0.9	0.9	1.2	1.2	
Tower height [m]		41.4	41.4	64.2	73.2	
Hook height above ground [m]		42.9	42.9	65.7	74.7	

# WOLFFKRAN

Item					
1	4.5 m	UV 15.4			
2	9.0 m	UV 15.4			
3	13.5 m	UV 15.4			
4	18.0 m	UV 15.4			
5	22.5 m	UV 15.4			
6	27.0 m	UV 15.4			
7	31.5 m	UV 15.4			
8	36.0 m	UVÜ 15.4			
9	40.5 m	UV 20.4			
10	45.0 m	UV 20.4			
11	49.5 m	TVA 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	TVÜ 20.4			
16	72.0 m	TV 25			
17	76.5 m	TV 25			
18	81.0 m	UVA 25			
19	82.2 m	VR 2529			
20	86.7 m	UV 29			
21	91.2 m	UV 29			
22	101.2 m	BT 29			
Substructure		KR 16-80 KR 16-80/100			
[m x m]		8.0 x 8.0 10.0 x 10.0			
Substructure height [m]		1.8			
Tower height [m]		103.0			
Hook height above ground [m]		104.5			



## 3.5 Tower combinations on cross frame (TFS 20 connection)

**NOTICE! The TFS 20 tower element is without climbing feature.**

Item						
1	4.5 m	TFS 20	TFS 20	TFS 20	TFS 20	
2	9.0 m	TFS 20	TFS 20	TFS 20	TFS 20	
3	13.5 m	TFS 20	TFS 20	TFS 20	TFS 20	
4	18.0 m	TFS 20	TFS 20	TFS 20	TFS 20	
5	22.5 m	TFS 20	TFS 20	TFS 20	TFS 20	
6	27.0 m	TFS 20	TFS 20	TFS 20.4	TFS 20.4	
7	31.5 m	TFS 20	TFS 20.4	TFS 20.4	TFS 20.4	
8	36.0 m		TFS 20.4	TFS 20.4	TFS 20.4	
9	40.5 m		TFS 20.4	UVA 20.4	UVA 20.4	
10	45.0 m			UV 20.4	UV 20.4	
11	49.5 m			UV 20.4	UV 20.4	
12	54.0 m			TVA 20.4	TVA 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	
16	72.0 m				TVÜ 20.4	
Substructure		KR 800-5 KR 800-6	KRV 7-32/46 KR 8-46	KR 10-46 KR 10-46/60	KR 1000-8	
[m x m]		5.0 x 5.0 6.0 x 6.0	4.6 x 4.6	4.6 x 4.6 6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		0.9	0.9	1.2	1.2	
Tower height [m]		32.4	41.4	64.2	73.2	
Hook height above ground [m]		33.9	42.9	65.7	74.7	

# WOLFFKRAN

Item					
1	4.5 m	TFS 20			
2	9.0 m	TFS 20			
3	13.5 m	TFS 20			
4	18.0 m	TFS 20			
5	22.5 m	TFS 20			
6	27.0 m	TFS 20.4			
7	31.5 m	TFS 20.4			
8	36.0 m	UVA 20.4			
9	40.5 m	UV 20.4			
10	45.0 m	UV 20.4			
11	49.5 m	TVA 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	TVÜ 20.4			
16	72.0 m	TV 25			
17	76.5 m	TV 25			
18	81.0 m	UVA 25			
19	82.2 m	VR 2529			
20	86.7 m	UV 29			
21	91.2 m	UV 29			
22	101.2 m	BT 29			
Substructure		KR 16-80 KR 16-80/100			
[m x m]		8.0 x 8.0 10.0 x 10.0			
Substructure height [m]		1.8			
Tower height [m]		103.0			
Hook height above ground [m]		104.5			

## 3.6 Tower combinations on cross frame (UV 20 connection)

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	
9	40.5 m		UV 20.4	UV 20.4	UV 20.4	
10	45.0 m			UV 20.4	UV 20.4	
11	49.5 m			UV 20.4	UV 20.4	
12	54.0 m			TVA 20.4	TVA 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	
16	72.0 m				TVÜ 20.4	
17	76.5 m					
18	81.0 m					
19	82.2 m					
20	86.7 m					
21	91.2 m					
22	101.2 m					
Substructure		KR 800-5 KR 800-6	KRV 7-32/46 KR 8-46	KR 10-46 KR 10-46/60	KR 1000-8	
[m x m]		5.0 x 5.0 6.0 x 6.0	4.6 x 4.6	4.6 x 4.6 6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		0.9	0.9	1.2	1.2	
Tower height [m]		32.4	41.4	64.2	73.2	
Hook height above ground [m]		33.9	42.9	65.7	74.7	

# WOLFFKRAN

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	UV 20.4			
9	40.5 m	UV 20.4			
10	45.0 m	UV 20.4			
11	49.5 m	TVA 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	TVÜ 20.4			
16	72.0 m	TV 25			
17	76.5 m	TV 25			
18	81.0 m	UVA 25			
19	82.2 m	VR 2529			
20	86.7 m	UV 29			
21	91.2 m	UV 29			
22	101.2 m	BT 29			
Substructure		KR 16-80 KR 16-80/100			
[m x m]		8.0 x 8.0 10.0 x 10.0			
Substructure height [m]		1.8			
Tower height [m]		103.0			
Hook height above ground [m]		104.5			

## 3.7 Tower combinations on cross frame element (UV 15.4 connection)

Item							
1	4.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4
2	9.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4
3	13.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4
4	18.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4
5	22.5 m		UV 15.4	UV 15.4	UV 15.4	UV 15.4	UV 15.4
6	27.0 m			UV 15.4	UV 15.4	UV 15.4	UV 15.4
7	31.5 m			UV 15.4	UV 15.4	UV 15.4	UV 15.4
8	36.0 m			UV 15.4	UV 15.4	UV 15.4	UV 15.4
9	40.5 m			UVÜ 15.4	UV 15.4	UV 15.4	UVÜ 15.4
10	45.0 m				UVÜ 15.4	UVÜ 15.4	UV 20.4
11	49.5 m				TVA 20.4	UV 20.4	UV 20.4
12	54.0 m					TVA 20.4	TVA 20.4
13	58.5 m						TV 20.4
14	63.0 m						TV 20.4
15	67.5 m						TVÜ 20
16	72.0 m						UVA 25
Substructure		KRE 250	KRE 250	KRE 260.1	KRE 260.2	KRE 260.2	KRE 480
[m x m]		4.5 x 5.44	5.0 x 5.0	5.0 x 6.79 6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	8.0 x 8.0
Substructure height [m]		4.0	4.0	4.0	4.0	4.0	4.0
Tower height [m]		22.0	26.5	44.5	53.5	58.0	76.0
Hook height above ground [m]		23.5	28.0	46.0	55.0	59.5	77.5

## 3.8 Tower combinations on cross frame element (TFS 20 connection)

**NOTICE! The TFS 20 tower element is without climbing feature.**

Item						
1	4.5 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
2	9.0 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
3	13.5 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
4	18.0 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
5	22.5 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
6	27.0 m	TFS 20	TFS 20	TFS 20.4	TFS 20.4	TFS 20.4
7	31.5 m	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4
8	36.0 m	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4
9	40.5 m	UVA 20.4	UVA 20.4	TFS 20.4	TFS 20.4	UVA 20.4
10	45.0 m			UVA 20.4	UVA 20.4	UV 20.4
11	49.5 m			TVA 20.4	UV 20.4	UV 20.4
12	54.0 m				TVA 20.4	TVA 20.4
13	58.5 m					TV 20.4
14	63.0 m					TV 20.4
15	67.5 m					TVÜ 20
16	72.0 m					UVA 25
Substructure		KRE 260.1	KRE 260.1	KRE 260.2	KRE 260.2	KRE 480
[m x m]		5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	8.0 x 8.0
Substructure height [m]		4.0	4.0	4.0	4.0	4.0
Tower height [m]		44.5	44.5	53.5	58.0	76.0
Hook height above ground [m]		46.0	46.0	55.0	59.5	77.5

## 3.9 Tower combinations on cross frame element (UV 20 connection)

Item						
1	4.5 m	UV 20.4	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	UV 20.4
3	13.5 m	UV 20.4	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	UV 20.4
5	22.5 m	UV 20.4	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	UV 20.4
7	31.5 m	UV 20.4	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	UV 20.4
9	40.5 m	UV 20.4	UV 20.4	UV 20.4	UV 20.4	UV 20.4
10	45.0 m			UV 20.4	UV 20.4	UV 20.4
11	49.5 m			TVA 20.4	UV 20.4	UV 20.4
12	54.0 m				TVA 20.4	TVA 20.4
13	58.5 m					TV 20.4
14	63.0 m					TV 20.4
15	67.5 m					TVÜ 20
16	72.0 m					UVA 25
Substructure		KRE 260.1	KRE 260.1	KRE 260.2	KRE 260.2	KRE 480
[m x m]		5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	8.0 x 8.0
Substructure height [m]		4.0	4.0	4.0	4.0	4.0
Tower height [m]		44.5	44.5	53.5	58.0	76.0
Hook height above ground [m]		46.0	46.0	55.0	59.5	77.5

## 3.10 Tower combinations on bogie truck (UV 15 connection)

Item					
1	4.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4
2	9.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4
3	13.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4
4	18.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4
5	22.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4
6	27.0 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4
7	31.5 m	UV 15.4	UV 15.4	UV 15.4	UV 15.4
8	36.0 m	UVÜ 15.4	UV 15.4	UVÜ 15.4	UV 15.4
9	40.5 m		UVÜ 15.4	TVA 20.4	UVÜ 15.4
10	45.0 m				TVA 20.4
Substructure		UW 260.1	UW 260.1	UW 260.2	UW 260.2
[m x m]		5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	6.0 x 6.0
Substructure height [m]		4.5	4.5	4.5	4.5
Tower height [m]		40.5	45.0	45.0	49.5
Hook height above ground [m]		42.0	46.5	46.5	51.0



# WOLFFKRAN

Item						
1	4.5 m	UV 15.4	UV 15.4	UV 15.4		
2	9.0 m	UV 15.4	UV 15.4	UV 15.4		
3	13.5 m	UV 15.4	UV 15.4	UV 15.4		
4	18.0 m	UV 15.4	UV 15.4	UV 15.4		
5	22.5 m	UV 15.4	UV 15.4	UV 15.4		
6	27.0 m	UV 15.4	UV 15.4	UV 15.4		
7	31.5 m	UV 15.4	UV 15.4	UV 15.4		
8	36.0 m	UV 15.4	UV 15.4	UV 15.4		
9	40.5 m	UV 15.4	UV 15.4	UVÜ 15.4		
10	45.0 m	UVÜ 15.4	UVÜ 15.4	UV 20.4		
11	49.5 m	TVA 20.4	UV 20.4	UV 20.4		
12	54.0 m		TVA 20.4	TVA 20.4		
13	58.5 m			TV 20.4		
14	63.0 m			TV 20.4		
15	67.5 m			TVÜ 20		
16	72.0 m			UVA 25		
Substructure		UW 260.3	UW 260.3	UW 480		
[m x m]		5.0 x 6.79	6.0 x 6.0	8.0 x 8.0		
Substructure height [m]		4.5	4.5	5.0		
Tower height [m]		54.0	58.5	77.0		
Hook height above ground [m]		55.5	60.0	78.5		

## 3.11 Tower combinations on bogie truck (TFS 20 connection)


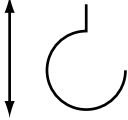
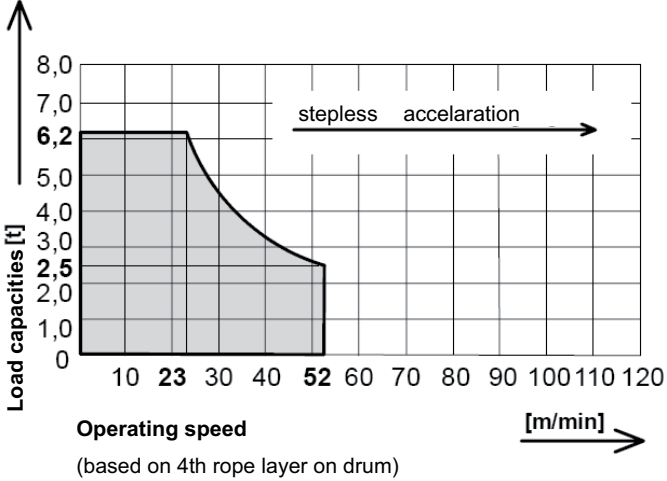
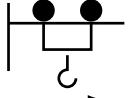
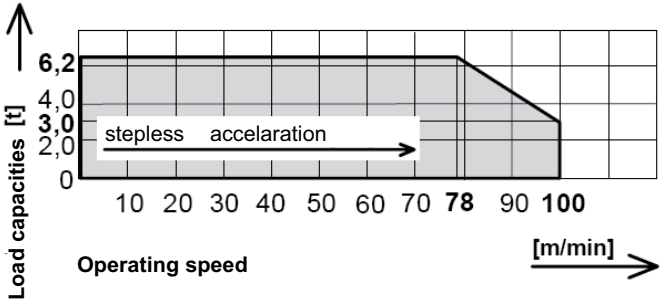

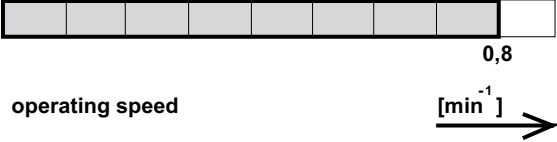
**NOTICE! The TFS 20 tower element is without climbing feature.**

Item								
1	4.5 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
2	9,0 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
3	13.5 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
4	18.0 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
5	22.5 m	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20	TFS 20
6	27.0 m	TFS 20	TFS 20	TFS 20	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4
7	31.5 m	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4
8	36.0 m	UVA 20.4	TFS 20.4	UVA 20.4	TFS 20.4	TFS 20.4	TFS 20.4	TFS 20.4
9	40.5 m		UVA 20.4	TVA 20.4	UVA 20.4	TFS 20.4	TFS 20.4	UVA 20.4
10	45.0 m				TVA 20.4	UVA 20.4	UVA 20.4	UV 20.4
11	49.5 m					TVA 20.4	UV 20.4	UV 20.4
12	54.0 m						TVA 20.4	TVA 20.4
13	58.5 m							TV 20.4
14	63.0 m							TV 20.4
15	67.5 m							TVÜ 20
16	72.0 m							UVA 25
Substructure		UW 260.1	UW 260.1	UW 260.2	UW 260.2	UW 260.3	UW 260.3	UW 480
[m x m]		5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	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	4.5	4.5	4.5	5.0
Tower height [m]		40.5	45.0	45.0	49.5	54.0	58.5	77.0
Hook height above ground [m]		42.0	46.5	46.5	51.0	55.5	60.0	78.5


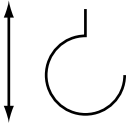
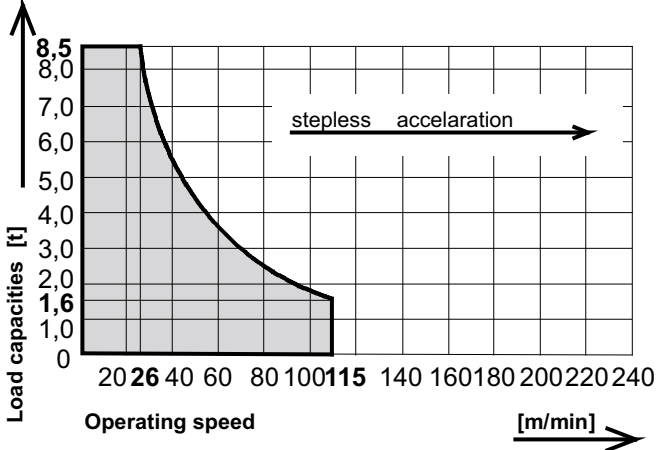
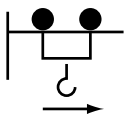
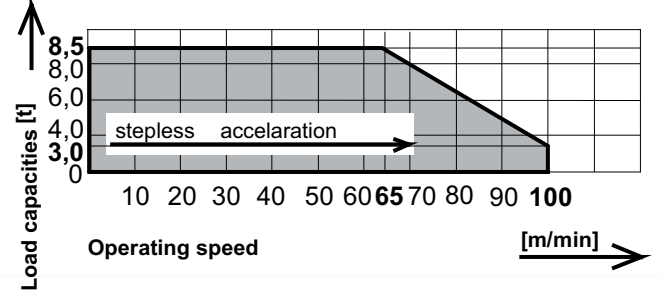

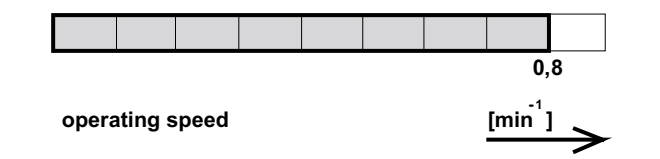
## 3.12 Tower combinations on bogie truck (UV 20 connection)

Item								
1	4.5 m	UV 20.4	UV 20.4	UV 20.4	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	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	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	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	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	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	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	UV 20.4	UV 20.4	UV 20.4
9	40.5 m		UV 20.4	TVA 20.4	UV 20.4	UV 20.4	UV 20.4	UV 20.4
10	45.0 m				TVA 20.4	UV 20.4	UV 20.4	UV 20.4
11	49.5 m					TVA 20.4	UV 20.4	UV 20.4
12	54.0 m						TVA 20.4	TVA 20.4
13	58.5 m							TV 20.4
14	63.0 m							TV 20.4
15	67.5 m							TVÜ 20
16	72.0 m							UVA 25
Substructure	UW 260.1	UW 260.1	UW 260.2	UW 260.2	UW 260.3	UW 260.3	UW 260.3	UW 480
[m x m]	5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	5.0 x 6.79	6.0 x 6.0	6.0 x 6.0	8.0 x 8.0
Substructure height [m]	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.0
Tower height [m]	40.5	45.0	45.0	49.5	54.0	58.5	77.0	
Hook height above ground [m]	42.0	46.5	46.5	51.0	55.5	60.0	78.5	

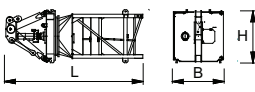
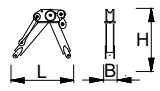
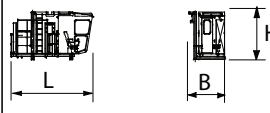

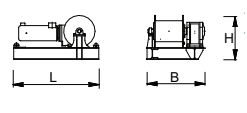
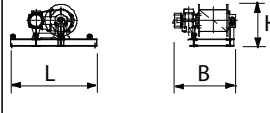
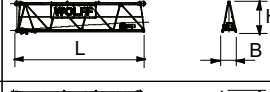
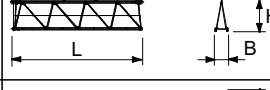
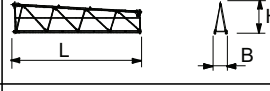
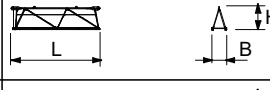


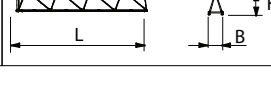
## 4 Operating speeds

Drive unit [type]	Operating speed Carrying load		Hook travel distance max. [m]	Power [kW]	Total connected wattage [kVA]
Hw628FU	Lifting		190	28	47.0 Total connected load at coincidence factor of 0.7
	 <p>Operating speed (based on 4th rope layer on drum) [m/min]</p>				
KW	Crab movement			7.5	
	 <p>Operating speed [m/min]</p>				
SG	Slewing			7.5	
	 <p>operating speed [min<sup>-1</sup>]</p>				





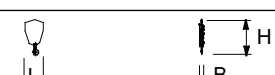
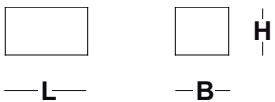
# WOLFFKRAN

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
					
<b>KW</b>	<b>Crab movement</b>			<b>7.5</b>	
					
<b>SG</b>	<b>Slewing</b>			<b>7.5</b>	
					

## 5 Package list 6015


Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m³]		
1	Tower head section, complete with slewing frame, ball slew bearing, slewing gear and slip ring system		with UV 20 lower part of tower head section					7335	35.07
			6.30	2.30	2.42	6810	35.07		
			with TFS 20 lower part of tower head section					7265	35.07
			6.30	2.30	2.42	5875	32.28		
1	Tower head section upper part with stay parts		with UV 20 lower part of tower head section					6400	32.28
			5.80	2.30	2.42	5875	32.28		
			with TFS 20 lower part of tower head section					6330	32.28
			5.80	2.30	2.42	6330	32.28		
1	Driver's cab with driver's cab suspension		4.46	1.96	2.55	2390	22.29		
1	Counter jib with stay parts and standard railings		12.00	2.30	0.64	4740	17.66		
1	Hoist winch platform Hw628FU (incl. 170 m hoisting rope)		2.17	1.50	1.12	2165	3.65		
1	Hoist winch platform Hw845FU (incl. 170 m hoisting rope)		2.17	1.57	1.04	2130	3.54		
1	Jib section 1 with traverse gear		10.29	1.19	2.32	2670	28.41		
1	Jib section 2		5.27	1.19	2.14	865	13.42		
1	Jib section 3		10.27	1.19	2.08	1310	25.42		
1	Jib section 4		5.25	1.19	1.65	645	10.31		
1	Jib section 5		2.75	1.19	1.65	395	5.40		
1	Jib section 6		10.23	1.19	1.65	1010	20.08		
1	Jib section 7		10.21	1.19	1.64	810	20.05		

# WOLFFKRAN

Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m <sup>3</sup> ]
1	Jib section 8		10.18	1.19	1.64	705	19.87
1	Rope swivel cross-beam		0.89	1.10	0.45	110	0.44
1	Trolley LK 8		1.87	1.42	0.95	295	2.52
1	Maintenance cage		0.75	0.58	1.69	55	0.74
1	Snatch block U6 (8)		0.50	0.22	1.11	350	0.12
1	Standard railings		2.60	1.10	0.65	300	1.86
1	Box (small parts)		0.63	0.50	0.38	100	1.12

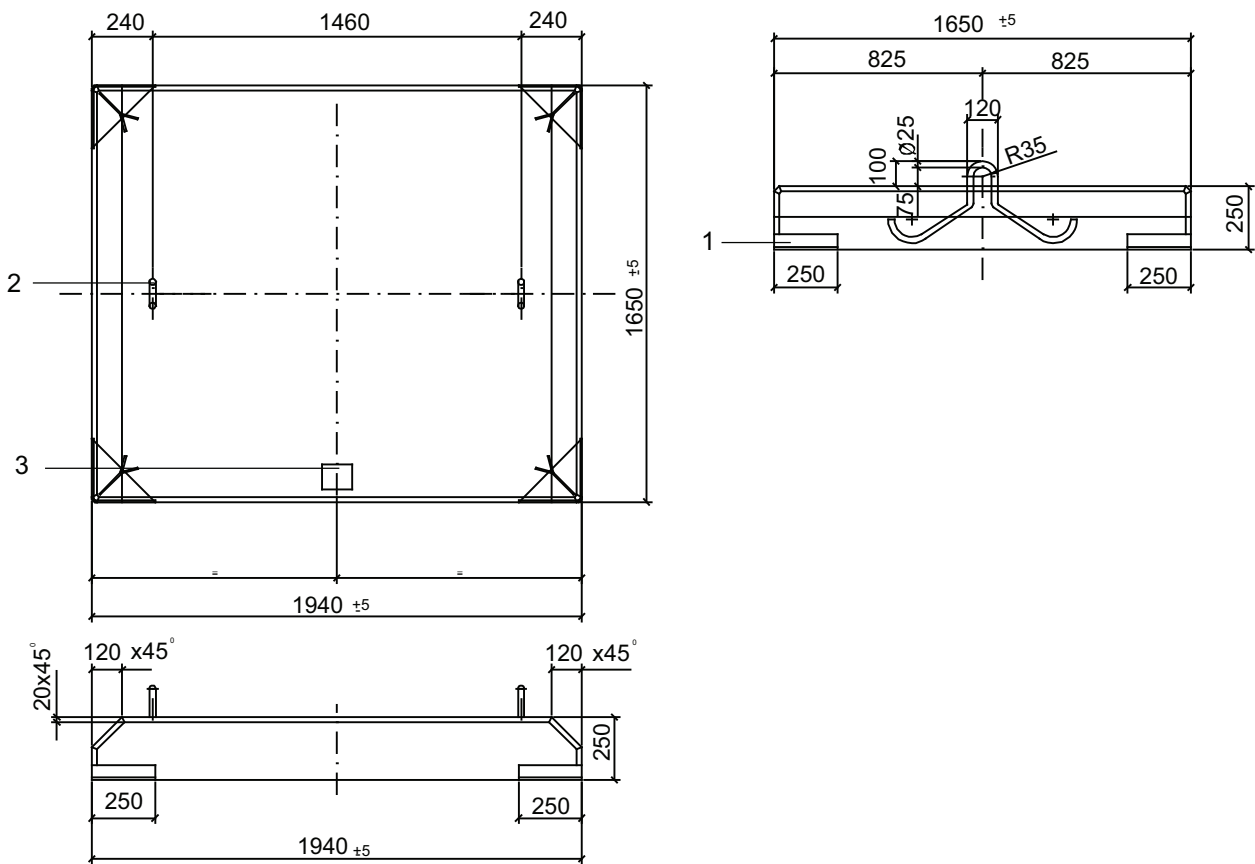
## 6 Assembly weights

### 6.1 Counterweight blocks

	<p><b>NOTICE</b></p> <p>The described diagrams of the counterweights and central ballast blocks only show sketches. Have them issue the reinforcement charts by experts.</p>
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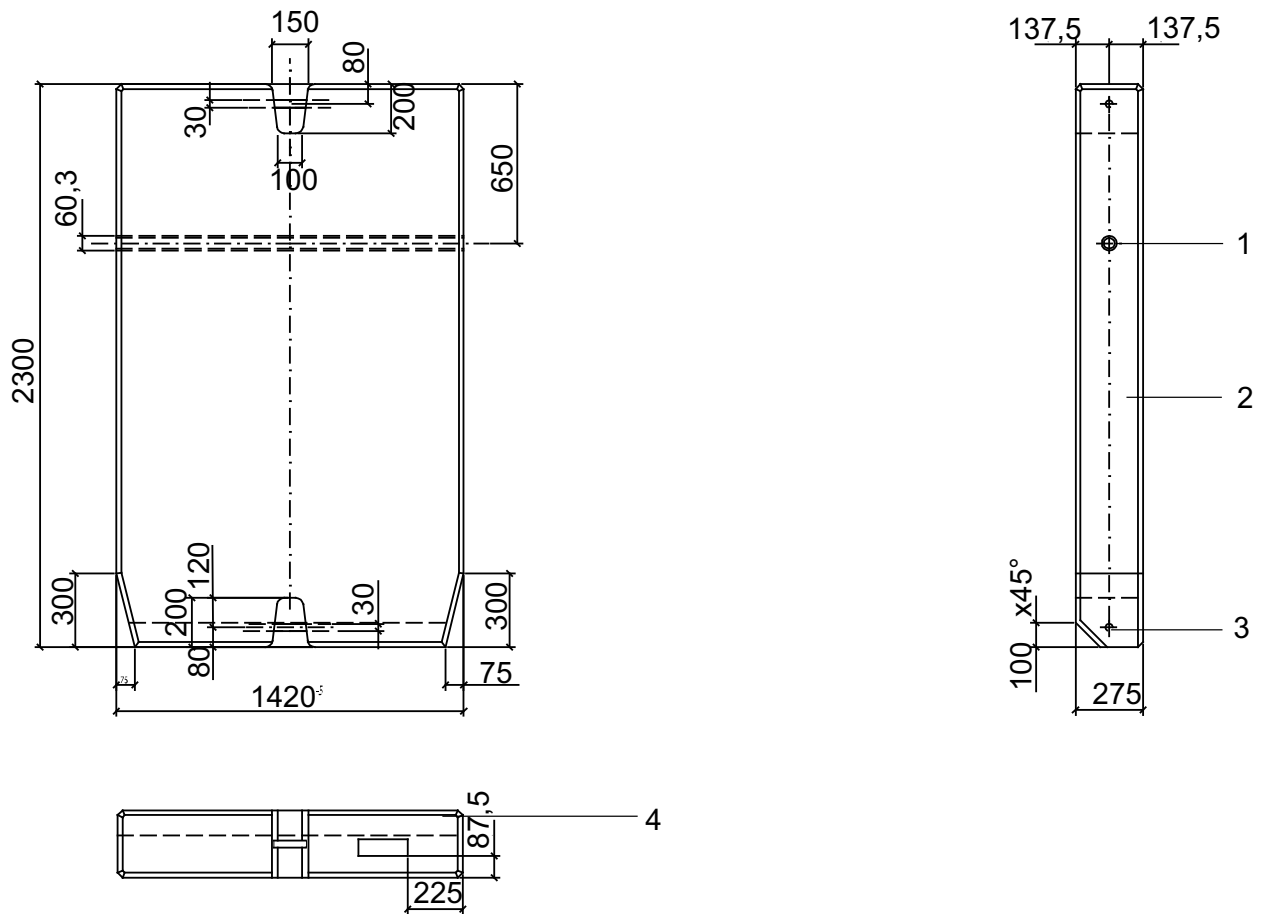
## 6.1.1 Counterweight block, 1.8 t



Data counterweight block 1.8 t

Item	Data
Material	Concrete, min. C 20/25
Max. permitted weight tolerance	+/- 3 %
Order number	962-2-031261
1	Corner guard
2	Suspension
3	Component identifier

## 6.1.2 Counterweight block, 2.05 t



Data counterweight block 2.05t

Item	Data
Material	Concrete, min. C 20/25
Max. permitted weight tolerance	+/- 3 %
Order number	962-2-031954
1	Connection for stub shaft
2	Structural steel reinforcement
3	Suspension
4	Component identifier

## 6.2 Total weight jib assembly

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

<b>Jib length (m)</b>	<b>Weight (kg)</b> <b>WOLFF 6015 clear</b>
60.0	8700
57.5	8400
55.0	8000
52.5	8000
50.0	8000
47.5	7700
45.0	7300
42.5	7400
40.0	7200
37.5	7000
35.0	6600
32.5	6600
30.0	6200
27.5	5900
25.0	5600

## 6.3 Assembly weight slewing gear

Module	Crane parts	Weight [kg]
Tower head section, complete – tower connection UV 20 lower part of tower head section		7335
	▪ Tower head section upper part including brace plates	935
	▪ Tower head section lower part including slewing frame, ball race bearing, slewing gears, standard railings and slip ring system	6400
Tower head section complete – Tower connection TFS 20 Lower part of tower head section		6810
	▪ Tower head section upper part including brace plates	935
	▪ Tower head section lower part including slewing frame, ball race bearing, slewing gears, standard railings and slip ring system	5875
Tower head section, complete – tower connection UV 15 lower part of tower head section		7265
	▪ Tower head section upper part including brace plates	935
	▪ Tower head section lower part including slewing frame, ball race bearing, slewing gears, standard railings and slip ring system	6330
Operator cabinet platform, complete		2390
	▪ Driver's cab including control cabinet, resistor and driver's cab suspension	2390
Counter jib with Hw628FU, complete		8705
	▪ Counter jib with brace plates and standard railings	4740
	▪ Hoist winch platform Hw628FU (incl. 170 m hoisting rope)	2165
	▪ Concrete counterweight block 1.8 t (below hoist winch platform)	1800
Counter jib with Hw845FU, complete		8670
	▪ Counter jib with brace plates and standard railings	4740
	▪ Hoist winch platform Hw845FU (incl. 170 m hoisting rope)	2130
	▪ Concrete counterweight block 1.8 t (below hoist winch platform)	1800

## 6.4 Assembly weight cross frame

Module	Crane parts	Weight [kg]
Cross frame KR 6-40 (without accessories)		
(4.0 m x 4.0 m)	▪ 4 bolted spigots AZ 93.4	200
	▪ 4 bolted spigots AZ 93.4 E 15	240
Cross frame KR 7- 32 (without accessories)		
(3.2 m x 3.2 m)	▪ 4 bolted spigots AZ 85 E 20.5	210
	▪ 4 bolted spigots AZ 93.4 E 15	240
	▪ 4 bolted spigots AZ 120 M	292
Cross frame KR 7 - 32 (without accessories)		
(3.2 m x 3.2 m)	▪ 4 bolted spigots AZ 85 E 20.5	210
	▪ 4 bolted spigots AZ 93.4 E 15	240
	▪ 4 bolted spigots AZ 120 M	292
Cross frame KR 7 - 32/46 (without accessories)		
(4.6 m x 4.6 m)	▪ 4 bolted spigots AZ 85 E 20.5	210
	▪ 4 bolted spigots AZ 93.4 E 15	240
	▪ 4 bolted spigots AZ 120 M	292
Cross frame KR 8- 46 (without accessories)		
(4.6 m x 4.6 m)	▪ 4 bolted spigots AZ 85 E 20.5	210
	▪ 4 bolted spigots AZ 93.4 E 15	240
	▪ 4 bolted spigots AZ 120 M	292
Cross frame KR 10- 46 (without accessories)		
(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)		
(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 KR HEB 700 - 4 (without accessories)		
(4.0 m x 4.0 m)	▪ 4 bolted spigots AZ 93.4	240
Cross frame KR HEB 700 - 5 (without accessories)		
(5.0 m x 5.0 m)	▪ 4 bolted spigots AZ 93.4	240
Cross frame KR HEB 800 - 5 (without accessories)		
(5.0 m x 5.0 m)	▪ 4 bolted spigots AZ 120 M	292
Cross frame KR HEB 800 - 6 (without accessories)		
(6.0 m x 6.0 m)	▪ 4 bolted spigots AZ 120 M	292
Supporting frame SR 150 (without accessories)		
(4.0 m x 4.0 m)	▪ 4 bolted spigots AZ 85 E 20.5	210
	▪ 4 bolted spigots AZ 93.4 E 15	240
	▪ 4 bolted spigots AZ 120 M	292
Cross frame KR 1000- 8 (without accessories)		
(8 m x 8 m)	▪ 4 bolted spigots AZ 140 E	684

Module	Crane parts	Weight [kg]	
	▪ 4 bolted spigots AZ 156 M	748	
Cross frame KR 16- 80 (without accessories)			21 450
(8 m x 8 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)			25 400
(10 m x 10 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	

## 6.5 Assembly weight cross frame elements

Module	Crane parts	Weight [kg]	
Cross frame element KRE 138 complete			3 800
	▪ Cross frame platform with lifting beam, corner plates and transport locks	2 100	
	▪ Mast base with diagonal struts	1 700	
Cross frame element KRE 250 complete			5 750
	▪ Cross frame platform with hinged section, corner plates and transport locks	2 730	
	▪ Mast base with diagonal struts and tie rods	3 020	
Cross frame element KRE 260.1, complete			8 100
	▪ Cross frame platform with hinged section, corner plates and transport locks	4 320	
	▪ Mast base with diagonal struts and tie rods	3 780	
Cross frame element KRE 260.2, complete			10 900
	▪ Cross frame platform with hinged section, corner plates and transport locks	5 455	
	▪ Mast base with diagonal struts and tie rods	5 445	
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	

## 6.6 Assembly weight bogie truck

Module	Crane parts	Weight [kg]	
Bogie truck UW 138, complete			5 750
	▪ Bogie truck platform with lifting beam, spacers and subframes	3 970	
	▪ Mast base with diagonal struts	1 780	
Bogie truck UW 260.1, complete			11 400
	▪ Bogie truck platform with hinged sections, subframes and transport locks	7 150	
	▪ Mast base with diagonal struts and tie rods	4 250	
Bogie truck UW 260.2, complete			14 060
	▪ Bogie truck platform with hinged sections, subframes and transport locks	9 810	
	▪ Mast base with diagonal struts and tie rods	4 250	
Bogie truck UW 260.3, complete			17 200
	▪ Bogie truck platform with hinged sections, subframes and transport locks	11 300	
	▪ Mast base with diagonal struts and tie rods	5 900	
Bogie truck UW 480, complete			34 000
	▪ Mast base	7 100	
	▪ Hinged sections with lifting beam and subframes	16 000	
	▪ Diagonal struts and ballast carrier	9 260	
	▪ Assembly platform, ladder, and small parts	1 640	

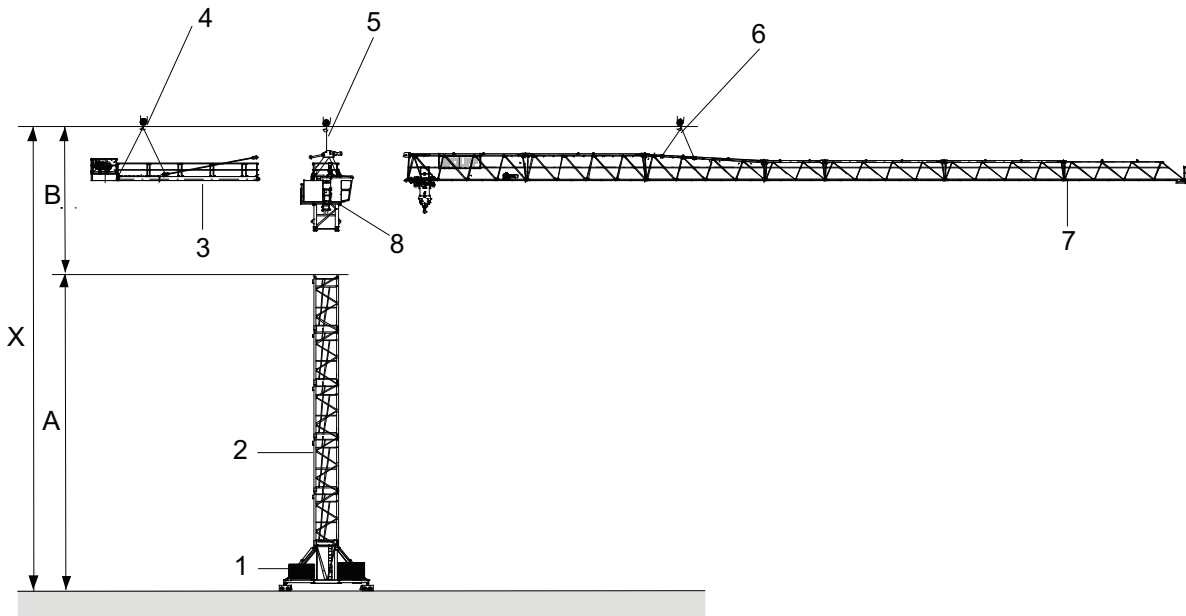


## 6.7 Hook height above ground required for mobile cranes

For information about the height of the WOLFF slewing tower crane, refer to Tower combinations [7].

**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 (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	Four-point lifting tackle (4 m with shackle)
3	Counter jib, complete	7	Jib, complete
4	Four-point lifting tackle (with shackle)	8	Tower head section, complete


### See also:

- Tower combinations [7]

## 7 Assembly diagrams

### 7.1 Jib attachment diagram

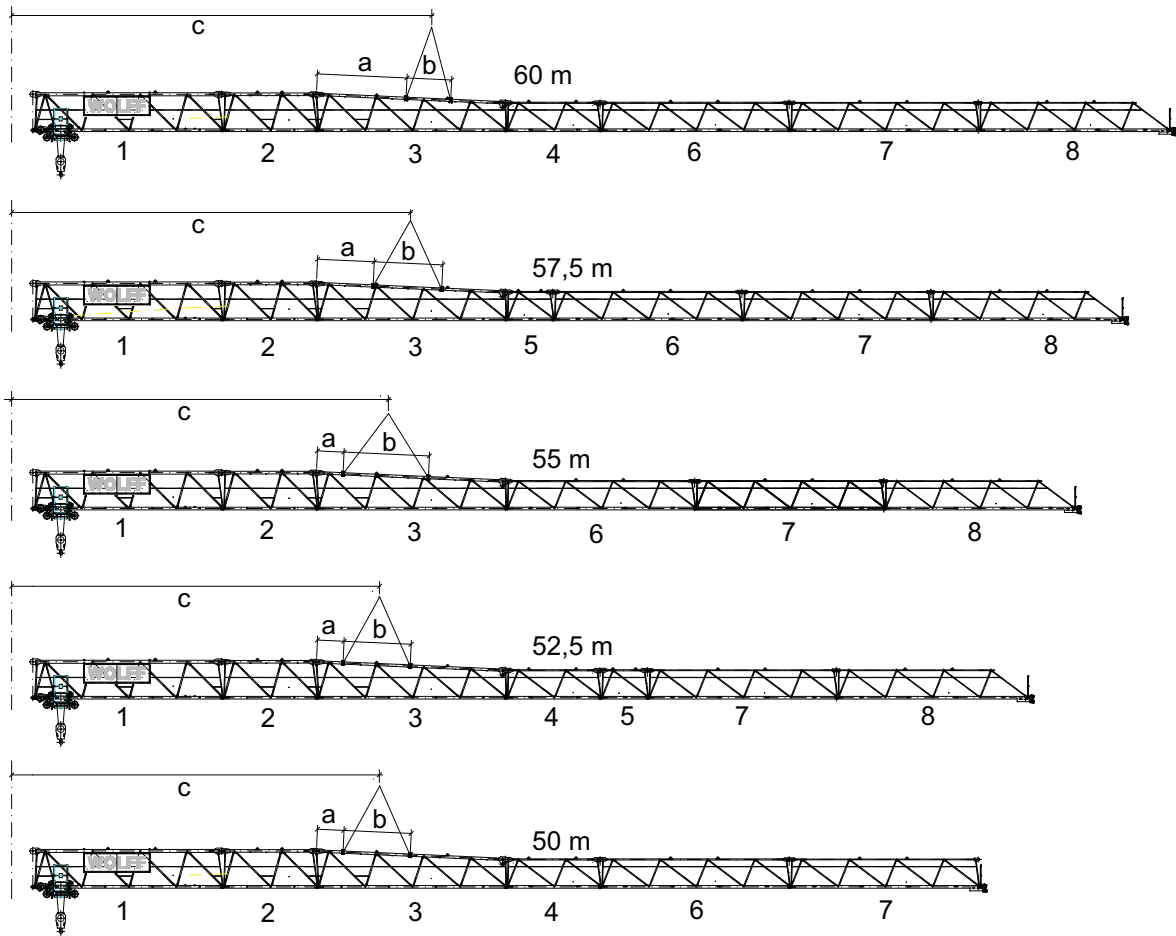
	<b>NOTICE</b>
	For jib assembly, use a Four-point lifting tackle (4 m with shackle).

	<b>NOTICE</b>
	To install the hook block within two sling ropes to DIN 3088 (Ø 8 mm x 1 m with shackle), attach it to the trolley, reeve in the mounting rope (Perlon, Ø 14 mm x 12 m) and secure it on the trolley.

### Length of jib elements

Item	in [m]
Trolley jib elements 1, 3, 6, 7 and 8	10.0
Jib element 2, 4	5.0
Trolley jib element 5	2.5
Rope swivel crossbeam	0.51

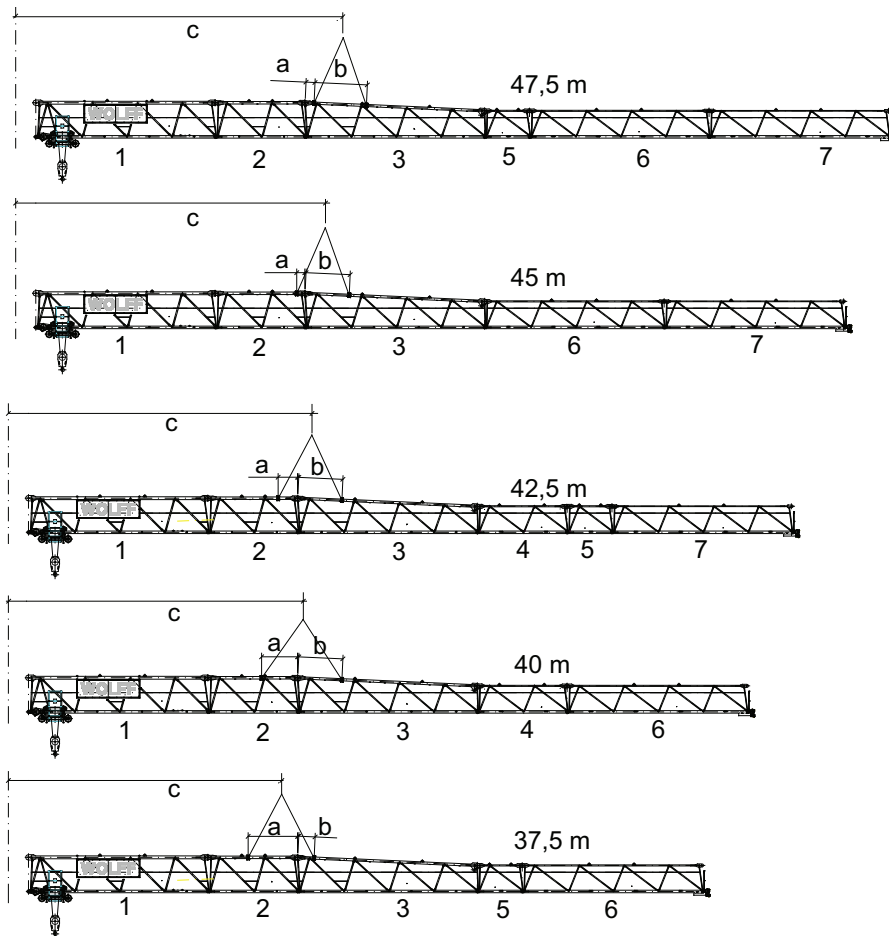
## 7.1.1 Trolley jib - attachment diagram 60 m to 50 m



a	Dimension a	c	Dimension c
b	Dimension b		

Data	Jib length [m]				
	60	57.5	55	52.5	50
a [mm]	4743	3002	1408	1408	1408
b [mm]	2366	3632	4520	3555	3555
c [mm]	22200	21170	20080	19490	19240
Weight [kg] 6015 clear	8700	8400	8000	8000	8000

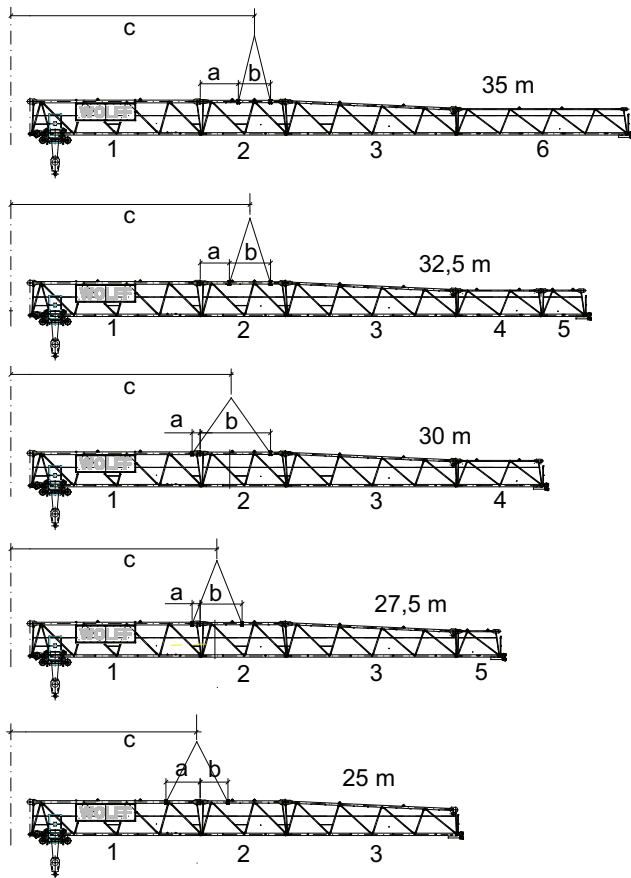
## 7.1.2 Trolley jib - attachment diagram 47.5 m to 37.5 m



a	Dimension a	c	Dimension c
b	Dimension b		

Data	Jib length [m]				
	47.5	45	42.5	40	37.5
a [mm]	502	450	1080	2000	2750
b [mm]	2918	2461	2461	2461	911
c [mm]	18220	17110	16690	16270	15300
Weight [kg] 6015 clear	7700	7300	7400	7200	7000


## 7.1.3 Trolley jib - attachment diagram 35 m to 25 m



a	Dimension a	c	Dimension c
b	Dimension b		

Data	Jib length [m]				
	35	32.5	30	27.5	25
a [mm]	2235	1710	465	465	2001
b [mm]	1890	2415	4125	2455	1625
c [mm]	14180	14010	12850	11980	10880
Weight [kg] 6015 clear	6600	6600	6200	5900	5600

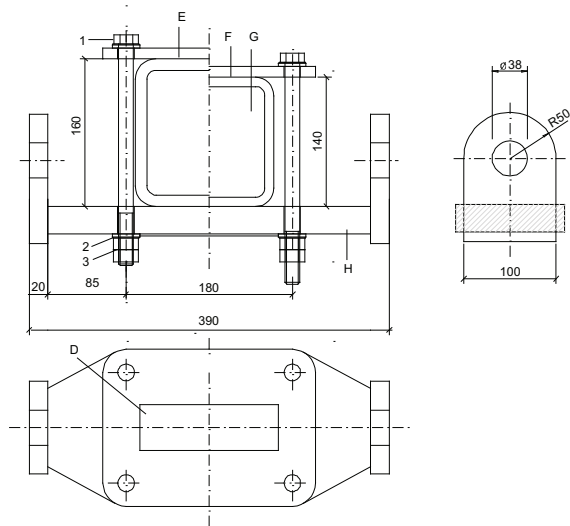
## 7.2 Trolley jib mounting rig

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

### Elements required for each mounting rig

Quantity	Item	Dimensions	Material
1	Mounting rig		
4	Hexagonal head bolt	M16 x 240	ISO 4017-8.8 galv.
8	HSFG washer	17	EN 14399 galvanized
8	Hexagonal nut	M16	ISO 4032-8 galvanized

### Mounting rig







1	Hexagonal head screw	A	Mounting rig
2	HSFG washer	W	Top belt trolley jib
3	Hexagonal nut		

## 8 Suitable climbing frames



This section contains information on

- Outer climbing units
- Inner climbing units (KSH)

	<p><b>⚠ WARNING</b></p> <p>Climbing unit attached to the cat head bottom section Increased wind surface. The slewing tower crane may overturn.</p> <ol style="list-style-type: none"> <li>1) Lower the climbing unit down on the tower, or</li> <li>2) dismantle the climbing unit.</li> </ol>
	<p><b>NOTICE</b></p> <p>Clamping forces for the inner climbing unit (KSH) are specified based on a building height of &lt; 250m and wind category C 25</p>
	<p><b>NOTICE</b></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 moving the trolley with the tower elements specified in the table or a load and can be checked by moving the end stops of the tower apart without offsets.</p>
	<p><b>NOTICE</b></p> <p>The data required and the instructions for tower assemblies with inner climbing unit is available in the separate description of the inner climbing unit.</p>


**DANGER!** Observe the special tower combination for the inner climbing unit.

## 8.1 Outer climbing units

	<p><b>NOTICE</b></p> <p>If feasible, you should preferably operate your climbing frame without balancing weight.</p>
	<p><b>NOTICE</b></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>




## 8.1.1 Outer climbing unit KWH 15.2

	<b>NOTICE</b>
	<p>Minimum height for stationary setup: 2 tower elements = 9.0 m tower height</p> <p>Minimum height for crawling towers: 2 tower elements + bogie truck = approx. 13.5 m tower height</p>

### Climbing radius for the balancing weights

	Jib length [m]														
	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25
no weight	34.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
UV 15 = 1.73 t	10.1	16.0	16.1	17.5	18.5	17.6	17.4	18.5	19.0	19.0	20.4	20.7	21.5	22.6	23.3


## 8.1.2 Outer climbing unit KWH 20.3/ KWH 20.3.1


	<b>NOTICE</b>
	<p>Minimum height for stationary setup: 3 tower elements = 13.5 m tower height</p> <p>Minimum height for crawling towers: 2 tower elements + bogie truck = approx. 13.5 m tower height</p>

### Climbing radius for the balancing weights

	Jib length [m]														
	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25
no weight	11.7	30.7	31.8	36.1	39.4	37.6	-	-	-	-	-	-	-	-	-
UV20= 2.05 t	-	7.8	8.1	9.3	10.2	9.7	9.8	10.7	11.2	11.4	12.7	13.0	13.9	15.0	15.8

## 8.1.3 Outer climbing unit KWH 20.6/ KWH 20.6.1

	<b>NOTICE</b>
	<p>Minimum height for stationary setup: 2 tower elements = 9.0 m tower height</p> <p>Minimum height for crawling towers: 2 tower elements + bogie truck = approx. 13.5 m tower height</p>

	<b>⚠ WARNING</b>
	<p>Climbing procedures with the 6015.6clear The slewing tower crane may overturn.</p> <p>▶ Use the KWH 20.6 only with the 6015.8clear.</p>

### Climbing radius for the balancing weights

	Jib length [m]														
	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25
no weight	8.8	27.8	28.9	33.2	36.5	34.7	35.0	-	-	-	-	-	-	-	-
UV 20 = 2.05 t	-	6.9	7.2	8.5	9.4	8.9	9.0	9.9	10.3	10.6	11.9	12.1	13.1	14.1	15.0

## 8.2 Inner climbing units

### 8.2.1 Inner climbing unit KSH 15

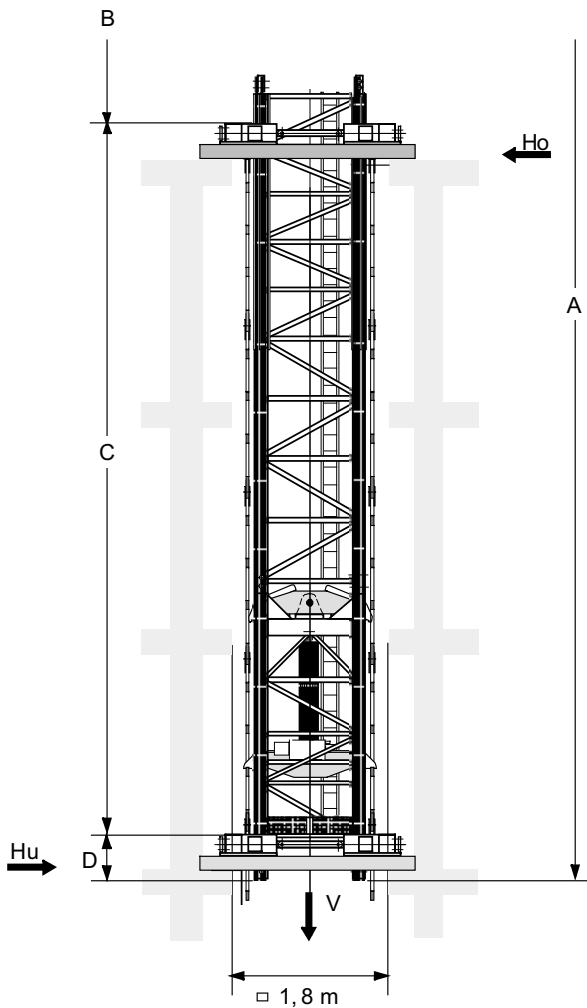
Tower combinations for slewing tower cranes with inner climbing unit.

Item			
1	UV 15.4	UV 15.4	UV 15.4
2	UV 15.4	UV 15.4	UV 15.4
3	UV 15.4	UV 15.4	UV 15.4
4	UV 15.4	UV 15.4	UV 15.4
5		UV 15.4	UV 15.4
6			UV 15.4
Inner climbing frame	KSH 15	KSH 15	KSH 15
Foundation	FUA 120	FUA 120	FUA 120
Tower height [m]	33.0	37.5	42.0
Hook height above ground [m]	34.5	39.0	43.5

### Climbing radius for the balancing weights

	Jib length [m]														
	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25
UV 15.4 = 1.75 t	31.4	37.2	36.4	37.8	38.8	37.1	36.1	-	-	-	-	-	-	-	-
Weight = 5.00 t	13.8	16.4	16.0	16.6	17.1	16.3	15.9	16.3	16.5	16.2	16.7	16.9	16.8	17.3	17.2

# WOLFFKRAN



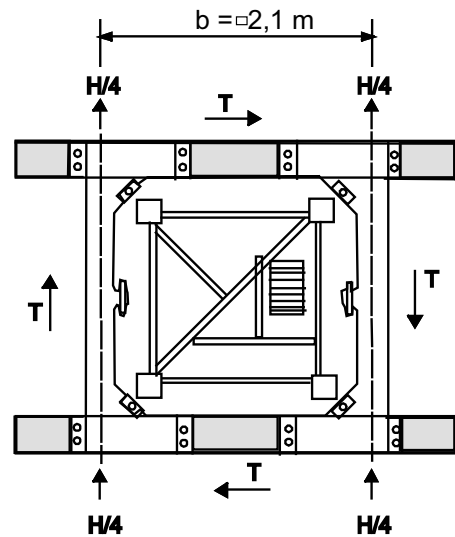
$$C_{min} = 9,0 \text{ m}$$

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

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

$$H_u = H_o - H$$

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



A	= Tower height	C	= Distance between guide frames
W	= A-C-D		

Operational clamping forces [kN] inside a building																		
A [m]	42.0						37.5						33.0					
C [m]	9	10	11	12	13	14	9	10	11	12	13	14	9	10	11	12	13	14
V	782						766						749					
Ho	230	210	190	170	160	150	210	190	180	160	150	140	200	180	160	150	140	130
Hu	200	180	160	140	130	120	190	170	150	130	120	110	170	150	140	120	110	100
T	50						50						50					

Non-operational clamping forces [kN] inside a building																		
A [m]	42.0						37.5						33.0					
C [m]	9	10	11	12	13	14	9	10	11	12	13	14	9	10	11	12	13	14
V	689						672						655					
Ho	430	390	350	330	300	280	360	330	300	270	250	230	300	270	250	220	210	200
Hu	290	250	220	190	160	140	230	200	170	140	120	100	180	150	130	100	90	80
T	0						0						0					

## 8.2.2 Inner climbing unit KSH 20 M

Tower combinations for tower cranes with inner climbing unit.

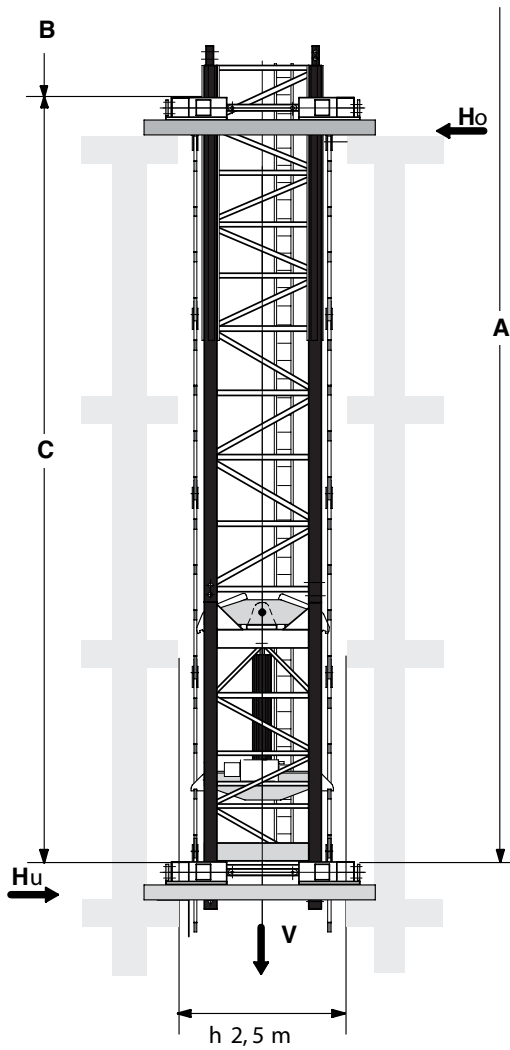
Item		
1	UV 20.4 LC	UV 20.4
2	UV 20.4 LC	UV 20.4 LC
3		UV 20.4 LC
Inner climbing frame	KSH 20 M	KSH 20 M
Foundation	FUA 120	FUA 120
Tower height [m]	37.5	42.0
Hook height above ground [m]	39.0	43.5

Tower combinations for slewing tower cranes with inner climbing unit.

Item			
1	UV 20.4		
2	UV 20.4		
3	UV 20.4		
4	UV 20.4 LC		
Inner climbing frame	KSH 20 M		
Foundation	FUA 120		
Tower height [m]	39.8		

Climbing radius for the balancing weights

	Jib length [m]														
	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25
UV 20.4 = 2.05 t	28.1	33.3	32.6	33.8	34.7	33.2	32.3	33.2	33.6	-	-	-	-	-	-
TV 20.4 = 2.98 t	21.4	25.3	24.8	25.7	26.4	25.3	24.5	25.3	25.6	25.0	25.9	26.1	26.0	-	-
Weight = 5.00 t	13.8	16.4	16.0	16.6	17.1	16.3	15.9	16.3	16.5	16.2	16.7	16.9	16.8	17.3	17.2



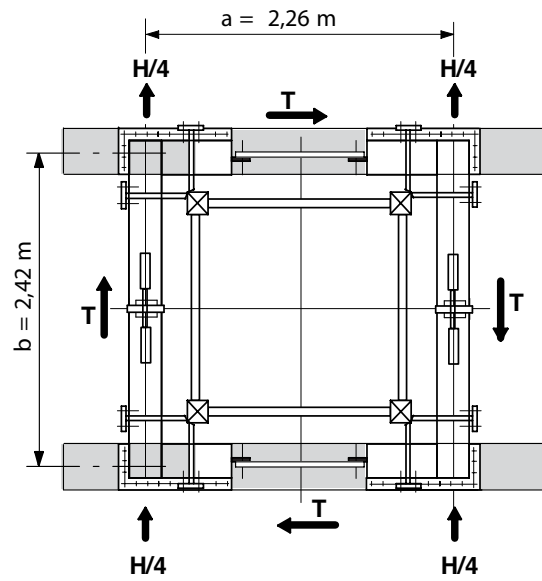
$$C_{\min} = 11,0 \text{ m}$$

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

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

$$H_u = H_o - H$$

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



A	Tower height	C	Distance between guide frames
W	A-C-D	D	0.77 m

## Operational clamping forces

Operational clamping forces [kN] inside a building									
A [m]	42.0				37.5				
C [m]	11	12	13	14	11	12	13	14	
V	817				799				
Ho	190	170	160	150	180	160	150	140	
Hu	160	140	130	120	150	130	120	110	
T	40				40				

## Non-operational clamping forces

Non-operational clamping forces [kN] inside a building									
A [m]	42.0				37.5				
C [m]	11	12	13	14	11	12	13	14	
V	723				705				
Ho	370	340	310	290	310	280	260	240	
Hu	220	190	170	150	180	150	130	110	
T	0				0				

## 8.2.3 Inner climbing unit KSH 20 L

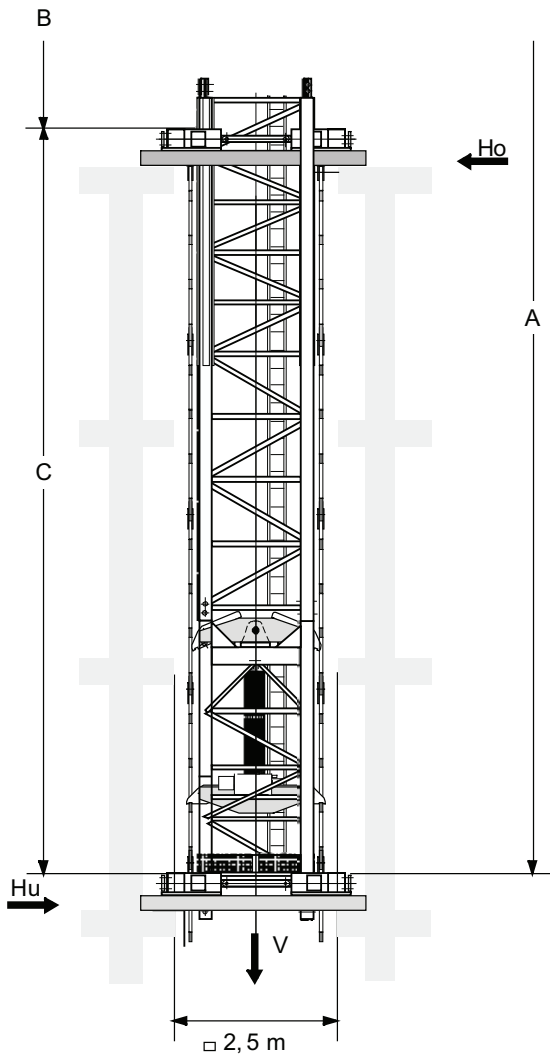
Tower combinations for tower cranes with inner climbing unit.

Item			
1	UV 20.4	UV 20.4	UV 20.4
2	UV 20.4	UV 20.4	UV 20.4
3	UV 20.4	UV 20.4	UV 20.4
4	UV 20.4	UV 20.4	UV 20.4
5	UV 20.4	UV 20.4	UV 20.4
6		UV 20.4	UV 20.4
7			UV 20.4
8			
Inner climbing frame	KSH 20 L	KSH 20 L	KSH 20 L
Foundation	FUA 120	FUA 120	FUA 120
Tower height [m]	36.5	41.0	45.5
Hook height above ground [m]	38.0	42.5	47.0

Climbing radius for the balancing weights

	Jib length [m]														
	60	57.5	55	52.5	50	47.5	45	42.5	40	37.5	35	32.5	30	27.5	25
UV 20.4 = 2.05 t	28.1	33.3	32.6	33.8	34.7	33.2	32.3	33.2	33.6	-	-	-	-	-	-
TV 20.4 = 2.98 t	21.4	25.3	24.8	25.7	26.4	25.3	24.5	25.3	25.6	25.0	25.9	26.1	26.0	-	-
Weight = 5.00 t	13.8	16.4	16.0	16.6	17.1	16.3	15.9	16.3	16.5	16.2	16.7	16.9	16.8	17.3	17.2





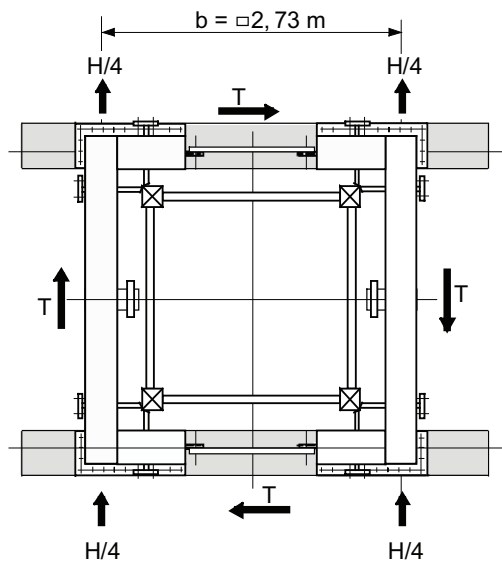
$$C_{min} = 9,0 \text{ m}$$

$$C_{max} = 13,0 \text{ m}$$

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

$$H_u = H_o - H$$

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



A	= Tower height	C	= Distance between guide frames
W	= A-C-D		

## Operational clamping forces

Operational clamping forces [kN] inside a building															
A [m]	45.5					41.0					36.5				
C [m]	9	10	11	12	13	9	10	11	12	13	9	10	11	12	13
V	825					806					788				
Ho	240	220	200	180	170	230	200	180	170	160	210	190	170	160	150
Hu	210	190	170	150	140	200	170	150	140	130	180	160	140	130	120
T	40					40					40				

## Non-operational clamping forces

Non-operational clamping forces [kN] inside a building															
A [m]	45.5					41.0					36.5				
C [m]	9	10	11	12	13	9	10	11	12	13	9	10	11	12	13
V	731					712					684				
Ho	510	460	420	380	350	430	390	350	320	300	360	320	290	270	250
Hu	360	310	270	230	200	290	250	210	180	160	230	190	160	140	120
T	0					0					0				

## 9 Arrangement of counterweight blocks

<b>L = 60 m</b>	<b>L = 57.5 m</b>	<b>L = 55 m</b>	<b>L = 52.5 m</b>	<b>L = 50 m</b>
10 x 2.05 t	10 x 2.05 t	9 x 2.05 t	9 x 2.05 t	9 x 2.05 t
W = 22.3 t	W = 22.3 t	W = 20.3 t	W = 20.3 t	W = 20.3 t
<b>L = 47.5 m</b>	<b>L = 45 m</b>	<b>L = 42.5 m</b>	<b>L = 40 m</b>	<b>L = 37.5 m</b>
8 x 2.05 t	7 x 2.05 t	7 x 2.05 t	7 x 2.05 t	6 x 2.05 t
W = 18.2 t	W = 16.2 t	W = 16.2 t	W = 16.2 t	W = 14.1 t
<b>L = 35 m</b>	<b>L = 32.5 m</b>	<b>L = 30 m</b>	<b>L = 27.5 m</b>	<b>L = 25 m</b>
6 x 2.05 t	6 x 2.05 t	5 x 2.05 t	5 x 2.05 t	4 x 2.05 t
W = 14.1 t	W = 14.1 t	W = 12.1 t	W = 12.1 t	W = 10.0 t

Additional permanent counterweight for all jib lengths: 1.8 t

L	Jib length [m]	a	To the tower
G	Total weight [t]		Counterweight
	No counterweight		



