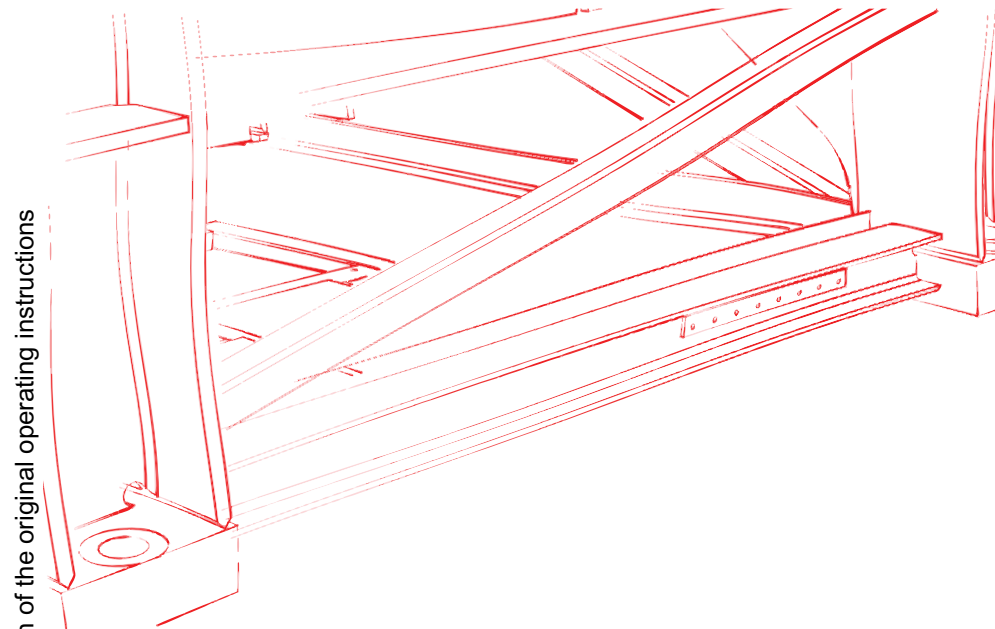


WOLFFKRAN

Slewing tower crane

WOLFF 700B

Technical Information



Translation of the original operating instructions

English

English

WOLFF 700B



Published by

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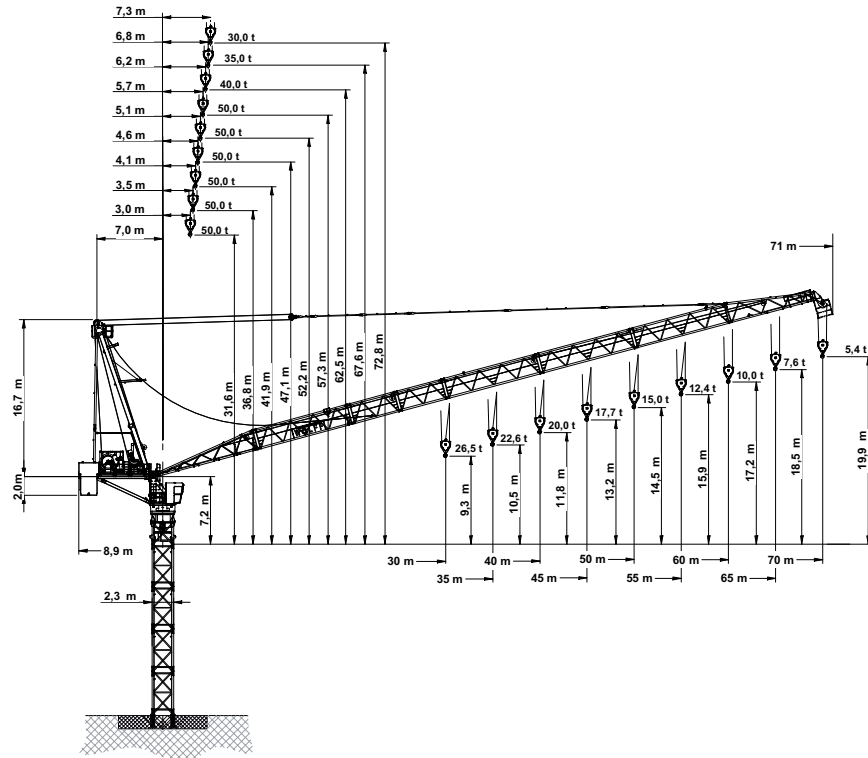
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1 Schedule drawing

1.1 Schedule drawing WOLFF 700 B



Item	Data
Crane type	BGL GROUP C.0.11.710
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. 8000 kN/m
Hoist winch	Hw 40132FU

2 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 GmbH to get an approved alternative setup in writing.



NOTICE

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

2 Tower combinations

2.1 Tower combinations on foundation (HT 23 connection)

Jib length	30m - 40m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
9	40.5 m	HT 23			
10	45.0 m	HT 23			
11	49.5 m	HT 23			
Foundation		FUA G 160			
Tower height [m]		49.5			

2 Tower combinations

Jib length	30m - 40m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
9	40.5 m	HT 23			
10	45.0 m	HT 23			
11	54.0 m	BT 23			
Foundation		FUA BT 23			
Tower height [m]		54.0			

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2 Tower combinations

Jib length	30m - 40m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
9	37.2 m	VR 2329			
10	41.7 m	UV 29			
11	46.2 m	UV 29			
12	50.7 m	UV 29			
13	55.2 m	UV 29			
14	65.2 m	BT 29			
Foundation		FUA BT 29			
Tower height [m]		65.2			

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2 Tower combinations

Jib length	45m - 70m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
9	40.5 m	HT 23			
10	41.5 m	HT 23			
Foundation		FUA G 160			
Tower height [m]		45.0			

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2 Tower combinations

Jib length	45m - 70m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
9	40.5 m	HT 23			
10	49.5 m	BT 23			
Foundation		FUA BT 23			
Tower height [m]		49.5			

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2 Tower combinations

Jib length	45m - 70m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
9	37.2 m	VR 2329			
10	41.7 m	UV 29			
11	46.2 m	UV 29			
12	50.7 m	UV 29			
13	60.7 m	BT 29			
Foundation		FUA BT 29			
Tower height [m]		60.7			

2.2 Tower Combinations on Cross Frame (HT-23 connection)

Jib length Item		30m - 40m			
1	4.5 m	HT 23	HT 23		
2	9.0 m	HT 23	HT 23		
3	13.5 m	HT 23	HT 23		
4	18.0 m	HT 23	HT 23		
5	22.5 m	HT 23	HT 23		
6	27.0 m	HT 23	HT 23		
7	31.5 m	HT 23	HT 23		
8	36.0 m	HT 23	HT 23		
9	40.5 m	HT 23	HT 23		
10	45.0 m	HT 23	HT 23		
11	49.5 m	HT 23	HT 23		
Substructure		KR 12-60	KR 12-60/80		
[m x m]		6.0 x 6.0	8.0 x 8.0		
Substructure height [m]		1.4	1.4		
Tower height [m]		50.9	50.9		

Jib length Item		30m - 40m			
1	4.5 m	HT 23	HT 23		
2	9.0 m	HT 23	HT 23		
3	13.5 m	HT 23	HT 23		
4	18.0 m	HT 23	HT 23		
5	22.5 m	HT 23	HT 23		
6	27.0 m	HT 23	HT 23		
7	31.5 m	HT 23	HT 23		
8	36.0 m	HT 23	HT 23		
9	37.2 m	VR 2329	VR 2329		
10	41.7 m	UV 29	UV 29		
11	46.2 m	UV 29	UV 29		
12	50.7 m	UV 29	UV 29		
13	55.2 m	UV 29	UV 29		
14	65.2 m	BT 29	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	1.8		
Tower height [m]		67.0	67.0		

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2 Tower combinations

Jib length	30m - 40m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
Substructure		KRF 12-60/80			
[m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		38.9			

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2 Tower combinations

Jib length	30m - 40m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	32.7 m	VR 2329			
9	37.2 m	UV 29			
10	41.7 m	UV 29			
11	46.2 m	UV 29			
12	56.2 m	BT 29			
Substructure		KRF 16-80/100			
[m x m]		10.0 x 10.0			
Substructure height [m]		3.3			
Tower height [m]		59.5			

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2 Tower combinations

Jib length	45m - 50m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	40.5 m	HT 23	HT 23	
10	45.0 m	HT 23	HT 23	
Substructure		KR 12-60	KR 12-60/80	
[m x m]		6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		1.4	1.4	
Tower height [m]		46.4	46.4	

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2 Tower combinations

Jib length	45m - 50m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	37.2 m	VR 2329	VR 2329	
10	41.7 m	UV 29	UV 29	
11	46.2 m	UV 29	UV 29	
12	50.7 m	UV 29	UV 29	
13	55.2 m	UV 29	UV 29	
14	65.2 m	BT 29	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	1.8	
Tower height [m]		67.0	67.0	

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2 Tower combinations

Jib length	45m - 50m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
Substructure		KRF 12-60/80			
[m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		38.9			

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2 Tower combinations

Jib length	45m - 50m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	32.7 m	VR 2329			
9	37.2 m	UV 29			
10	41.7 m	UV 29			
11	46.2 m	UV 29			
12	56.2 m	BT 29			
Substructure		KRF 16-80/100			
[m x m]		10.0 x 10.0			
Substructure height [m]		3.3			
Tower height [m]		59.5			

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2 Tower combinations

Jib length	55m - 60m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	40.5 m	HT 23	HT 23	
10	45.0 m	HT 23	HT 23	
Substructure		KR 12-60	KR 12-60/80	
[m x m]		6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		1.4	1.4	
Tower height [m]		46.4	46.4	

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2 Tower combinations

Jib length	55m - 60m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	37.2 m	VR 2329	VR 2329	
10	41.7 m	UV 29	UV 29	
11	46.2 m	UV 29	UV 29	
12	50.7 m	UV 29	UV 29	
13	60.7 m	BT 29	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	1.8	
Tower height [m]		62.5	62.5	

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2 Tower combinations

Jib length	55m - 60m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
Substructure		KRF 12-60/80			
[m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		38.9			

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2 Tower combinations

Jib length	55m - 60m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	32.7 m	VR 2329			
9	37.2 m	UV 29			
10	41.7 m	UV 29			
11	51.7 m	BT 29			
Substructure		KRF 16-80/100			
[m x m]		10.0 x 10.0			
Substructure height [m]		3.3			
Tower height [m]		55.0			

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2 Tower combinations

Jib length	65 m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	40.5 m	HT 23	HT 23	
10	45.0 m	HT 23	HT 23	
Substructure		KR 12-60	KR 12-60/80	
[m x m]		6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		1.4	1.4	
Tower height [m]		46.4	46.4	

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2 Tower combinations

Jib length	65 m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	37.2 m	VR 2329	VR 2329	
10	41.7 m	UV 29	UV 29	
11	46.2 m	UV 29	UV 29	
12	56.2 m	BT 29	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	1.8	
Tower height [m]		58.0	58.0	

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2 Tower combinations

Jib length	65 m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
Substructure	KRF 12-60/80				
[m x m]	8.0 x 8.0				
Substructure height [m]	2.9				
Tower height [m]	38.9				

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2 Tower combinations

Jib length	65 m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	32.7 m	VR 2329			
9	37.2 m	UV 29			
10	41.7 m	UV 29			
11	51.7 m	BT 29			
Substructure	KRF 16-80/100				
[m x m]	10.0 x 10.0				
Substructure height [m]	3.3				
Tower height [m]	55.0				

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2 Tower combinations

Jib length	70 m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	40.5 m	HT 23	HT 23	
Substructure		KR 12-60	KR 12-60/80	
[m x m]		6.0 x 6.0	8.0 x 8.0	
Substructure height [m]		1.4	1.4	
Tower height [m]		41.9	41.9	

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2 Tower combinations

Jib length	70 m			
Item				
1	4.5 m	HT 23	HT 23	
2	9.0 m	HT 23	HT 23	
3	13.5 m	HT 23	HT 23	
4	18.0 m	HT 23	HT 23	
5	22.5 m	HT 23	HT 23	
6	27.0 m	HT 23	HT 23	
7	31.5 m	HT 23	HT 23	
8	36.0 m	HT 23	HT 23	
9	37.2 m	VR 2329	VR 2329	
10	41.7 m	UV 29	UV 29	
11	46.2 m	UV 29	UV 29	
12	56.2 m	BT 29	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	1.8	
Tower height [m]		58.0	58.0	

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2 Tower combinations

Jib length	70 m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	36.0 m	HT 23			
Substructure		KRF 12-60/80			
[m x m]		8.0 x 8.0			
Substructure height [m]		2.9			
Tower height [m]		38.9			

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2 Tower combinations

Jib length	70 m				
Item					
1	4.5 m	HT 23			
2	9.0 m	HT 23			
3	13.5 m	HT 23			
4	18.0 m	HT 23			
5	22.5 m	HT 23			
6	27.0 m	HT 23			
7	31.5 m	HT 23			
8	32.7 m	VR 2329			
9	37.2 m	UV 29			
10	41.7 m	UV 29			
11	51.7 m	BT 29			
Substructure		KRF 16-80/100			
[m x m]		10.0 x 10.0			
Substructure height [m]		3.3			
Tower height [m]		55.0			

3 Load carrying capacities

3.1 Table of load carrying capacity WOLFF 700B (single reeving)

		Operating radius (m)	Jib length [m]												LCC
			20	25	30	35	40	45	50	55	60	65	70		
JL (m)	70	7.3 – 28.0	20.0	20.0	18.4	15.1	12.7	10.8	9.3	8.1	7.0	6.2	5.4	[t]	LCC
	65	6.8 – 31.5	20.0	20.0	20.0	17.6	14.9	12.8	11.1	9.7	8.6	7.6			
	60	6.2 – 34.0	20.0	20.0	20.0	19.3	16.5	14.4	12.6	11.2	10.0				
	55	5.7 – 35.5	20.0	20.0	20.0	20.0	17.6	15.5	13.8	12.4					
	50	5.1 – 37.5	20.0	20.0	20.0	20.0	18.8	16.7	15.0						
	45	4.6 – 39.5	20.0	20.0	20.0	20.0	19.8	17.7							
	40	4.1 – 40.0	20.0	20.0	20.0	20.0									
	35	3.5 – 35.0	20.0	20.0	20.0										
	30	3.0 – 30.0	20.0	20.0											
	JL	Jib length													
LCC	Load carrying capacity														

3.2 Table of load carrying capacities (kg) in meter intervals, WOLFF 700B (single reeving)

Operating radius (m)	Jib length [m]									
	30	35	40	45	50	55	60	65	70	
10	20000	20000	20000	20000	20000	20000	20000	20000	20000	
11	20000	20000	20000	20000	20000	20000	20000	20000	20000	
12	20000	20000	20000	20000	20000	20000	20000	20000	20000	
13	20000	20000	20000	20000	20000	20000	20000	20000	20000	
14	20000	20000	20000	20000	20000	20000	20000	20000	20000	
15	20000	20000	20000	20000	20000	20000	20000	20000	20000	
16	20000	20000	20000	20000	20000	20000	20000	20000	20000	
17	20000	20000	20000	20000	20000	20000	20000	20000	20000	
18	20000	20000	20000	20000	20000	20000	20000	20000	20000	
19	20000	20000	20000	20000	20000	20000	20000	20000	20000	
20	20000	20000	20000	20000	20000	20000	20000	20000	20000	
21	20000	20000	20000	20000	20000	20000	20000	20000	20000	
22	20000	20000	20000	20000	20000	20000	20000	20000	20000	
23	20000	20000	20000	20000	20000	20000	20000	20000	20000	
24	20000	20000	20000	20000	20000	20000	20000	20000	20000	
25	20000	20000	20000	20000	20000	20000	20000	20000	20000	
26	20000	20000	20000	20000	20000	20000	20000	20000	20000	
27	20000	20000	20000	20000	20000	20000	20000	20000	20000	
28	20000	20000	20000	20000	20000	20000	20000	20000	20000	
29	20000	20000	20000	20000	20000	20000	20000	20000	19160	
30	20000	20000	20000	20000	20000	20000	20000	20000	18380	
31		20000	20000	20000	20000	20000	20000	20000	17650	
32		20000	20000	20000	20000	20000	20000	19620	16960	
33		20000	20000	20000	20000	20000	20000	18910	16310	
34		20000	20000	20000	20000	20000	20000	18230	15710	
35		20000	20000	20000	20000	20000	19340	17590	15130	
36			20000	20000	20000	19700	18720	16990	14590	
37			20000	20000	20000	19130	18130	16420	14080	
38			20000	20000	19740	18590	17570	15880	13600	
39			20000	20000	19230	18080	17040	15370	13140	
40				20000	19760	18750	17590	16540	14890	
41					19310	18290	17120	16060	14430	
42					18880	17860	16680	15600	13990	
43					18470	17440	16260	15170	13570	
44					18080	17050	15860	14760	13160	
45					17700	16670	15470	14360	12780	
46						16300	15110	13980	12420	
47						15960	14760	13620	12070	
48						15630	14420	13270	11730	
49						15310	14090	12940	11410	
50						15000	13780	12620	11100	
51							13490	12310	10800	
52							13200	12010	10510	
53							12920	11730	10240	
54							12660	11460	9980	
55							12400	11190	9720	
56								10930	9470	
57								10690	9240	
58								10450	9010	
59								10220	8790	
60								10000	8570	
61									8360	
62									8160	
63									7970	
64									7780	
65									7600	
66									5990	
67									5840	
68									5690	
69									5540	
70									5400	

3 Load carrying capacities

3.3 Table of load carrying capacity WOLFF 700B (double reeving)

		Operating radius (m)	max. LCC	Operating radius (m)														LCC
				20	25	30	35	40	45	50	55	60	65	70				
JL (m)	70	7.3 – 19.0	30.0 t	28.3	21.6	17.2	14.0	11.6	9.8	8.3	7.1	6.1	5.2	4.5	[t]			
	65	6.8 – 18.5	35.0 t	32.0	24.7	19.8	16.4	13.7	11.7	10.1	8.8	7.6	6.7					
	60	6.2 – 17.5	40.0 t	34.6	26.9	21.8	18.2	15.5	13.3	11.6	10.3	9.1						
	55	5.7 – 18.0		35.8	28.1	23.1	19.4	16.7	14.6	12.9	11.5							
	50	5.1 – 18.5		36.9	29.3	24.2	20.6	17.9	15.8	14.1								
	45	4.6 – 19.0		38.0	30.4	25.3	21.6	18.9	16.8									
	40	4.1 – 19.5		39.0	31.3	26.1	22.5	19.7										
	35	3.5 – 20.0		40.0	31.9	26.5	22.6											
	30	3.0 – 20.0		40.0	31.9	26.5												
	JL	Jib length																
LCC	Load carrying capacity																	

3 Load carrying capacities

3.4 Table of load carrying capacities (kg) in meter intervals, WOLFF 700B (double reeving)

Operating radius (m)	Jib length [m]									
	30	35	40	45	50	55	60	65	70	
10	40000	40000	40000	40000	40000	40000	40000	35000	30000	
11	40000	40000	40000	40000	40000	40000	40000	35000	30000	
12	40000	40000	40000	40000	40000	40000	40000	35000	30000	
13	40000	40000	40000	40000	40000	40000	40000	35000	30000	
14	40000	40000	40000	40000	40000	40000	40000	35000	30000	
15	40000	40000	40000	40000	40000	40000	40000	35000	30000	
16	40000	40000	40000	40000	40000	40000	40000	35000	30000	
17	40000	40000	40000	40000	40000	40000	40000	35000	30000	
18	40000	40000	40000	40000	40000	40000	38790	35000	30000	
19	40000	40000	40000	40000	38920	37770	36560	33960	30000	
20	40000	40000	39010	37990	36820	35760	34550	32030	28250	
21	38070	38070	37170	36180	35110	33950	32730	30290	26670	
22	36320	36310	35500	34520	33460	32300	31080	28710	25230	
23	34720	34700	33970	33020	31960	30790	29570	27260	23910	
24	33250	33230	32570	31630	30580	29410	28190	25930	22710	
25	31900	31880	31290	30360	29310	28140	26910	24710	21600	
26	30650	30630	30100	29190	28140	26960	25740	23590	20580	
27	29500	29470	29000	28100	27060	25880	24650	22550	19630	
28	28430	28400	27980	27090	26050	24870	23640	21580	18750	
29	27430	27400	27020	26150	25110	23930	22700	20680	17930	
30	26500	26470	26140	25280	24240	23050	21820	19840	17170	
31		25590	25310	24460	23420	22230	21000	19050	16450	
32		24780	24530	23690	22660	21470	20230	18310	15780	
33		24010	23800	22970	21940	20740	19510	17620	15150	
34		23280	23110	22290	21260	20060	18830	16970	14560	
35		22600	22460	21640	20620	19420	18190	16350	14000	
36			21850	21040	20020	18820	17580	15770	13470	
37			21270	20470	19440	18250	17010	15220	12970	
38			20720	19920	18900	17700	16470	14700	12500	
39			20200	19410	18390	17190	15950	14210	12050	
40				18920	17900	16700	15460	13740	11630	
41				18450	17440	16230	15000	13290	11220	
42				18010	17000	15790	14550	12870	10830	
43				17590	16580	15370	14130	12460	10470	
44				17190	16170	14970	13730	12070	10110	
45					16800	15790	14580	13340	11700	
46						15420	14210	12970	11350	
47						15070	13860	12620	11010	
48						14730	13520	12280	10690	
49						14410	13200	11960	10380	
50						14100	12890	11640	10080	
51							12590	11350	9790	
52							12300	11060	9510	
53							12020	10780	9250	
54							11760	10510	8990	
55							11500	10260	8750	
56								10010	8510	
57								9770	8280	
58								9540	8060	
59								9320	7840	
60								9100	7640	
61									7440	
62									7240	
63									7060	
64									6880	
65									6700	
66										
67										
68										
69										
70										

3 Load carrying capacities

3.5 Load carrying capacity table WOLFF 700B (triple reeving)

		Operating radius (m)	20	25	30	35	40	45	50	55	60	65	70	
JL (m)	55	5,7 – 14,2	34,6	27,0	22,0	18,4	15,7	13,6	11,9	10,5				LCC [t]
	50	5,1 – 14,5	35,7	28,2	23,2	19,6	16,9	14,8	13,1					
	45	4,6 – 14,8	36,8	29,2	24,2	20,6	17,9	15,8						
	40	4,1 – 15,2	37,9	30,2	25,1	21,4	18,7							
	35	3,5 – 15,6	38,7	30,7	25,4	21,6								
	30	3,0 – 15,6	38,8	30,8	25,5									
JL	Jib length													
LCC	Load carrying capacity													












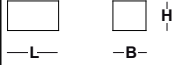
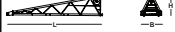
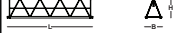


3 Load carrying capacities

3.6 Table of load carrying capacities (kg) in meter intervals, WOLFF 700B (triple reeving)










Operating radius (m)	Jib length [m]								
	30	35	40	45	50	55	60	65	70
10	50000	50000	50000	50000	50000	50000	-	-	-
11	50000	50000	50000	50000	50000	50000	-	-	-
12	50000	50000	50000	50000	50000	50000	-	-	-
13	50000	50000	50000	50000	50000	50000	-	-	-
14	50000	50000	50000	50000	50000	50000	-	-	-
15	50000	50000	50000	49320	48270	47160	-	-	-
16	48720	48720	47480	46180	45130	44100	-	-	-
17	45800	45780	44650	43410	42380	41230	-	-	-
18	43190	43170	42150	40940	39890	38760	-	-	-
19	40670	40630	39600	38740	37690	36550	-	-	-
20	38770	38730	37880	36750	35710	34580	-	-	-
21	36880	36820	36060	34950	33910	32780	-	-	-
22	35150	35090	34400	33320	32280	31120	-	-	-
23	33580	33520	32880	31830	30790	29630	-	-	-
24	32140	32070	31490	30470	29430	28260	-	-	-
25	30810	30730	30210	29210	28170	27000	-	-	-
26	29580	29510	29030	28050	27010	25830	-	-	-
27	28450	28370	27940	26970	25940	24760	-	-	-
28	27400	27310	26920	25980	24940	23760	-	-	-
29	26420	26320	25980	25050	24010	22830	-	-	-
30	25500	25410	25090	24180	23150	21960	-	-	-
31		24550	24270	23370	22340	21140	-	-	-
32		23740	23500	22610	21580	20380	-	-	-
33		22980	22770	21890	20860	19670	-	-	-
34		22270	22090	21220	20190	18990	-	-	-
35		21600	21440	20590	19560	18360	-	-	-
36			20830	19990	18960	17760	-	-	-
37			20260	19420	18400	17190	-	-	-
38			19710	18890	17860	16650	-	-	-
39			19190	18380	17350	16140	-	-	-
40			18700	17900	16870	15660	-	-	-
41				17440	16410	15190	-	-	-
42				17000	15970	14760	-	-	-
43				16580	15550	14340	-	-	-
44				16180	15160	13940	-	-	-
45				15800	14770	13560	-	-	-
46					14410	13190	-	-	-
47					14060	12840	-	-	-
48					13730	12500	-	-	-
49					13410	12180	-	-	-
50					13100	11870	-	-	-
51						11580	-	-	-
52						11290	-	-	-
53						11020	-	-	-
54						10750	-	-	-
55						10500	-	-	-
56							-	-	-
57							-	-	-
58							-	-	-
59							-	-	-
60							-	-	-
61							-	-	-
62							-	-	-
63							-	-	-
64							-	-	-
65							-	-	-
66							-	-	-
67							-	-	-
68							-	-	-
69							-	-	-
70							-	-	-

4 Package list

4 Package list



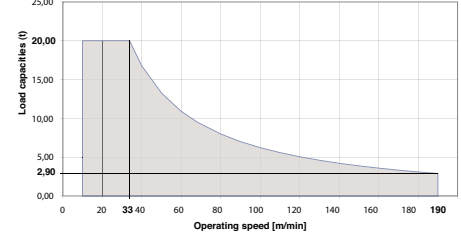
Quantity	Description	Package	L (m)	W (m)	H (m)	Weight (kg)	Volume (m ³)
1	Tower top with pulley block and pedestals		11.95	2.50	2.57	9500	76.78
1	Tower top stay		10.18	0.72	0.43	1600	3.15
1	Lower part of tower head section		8.52	3.05	2.66	20400	69.12
	Connecting block with ladder		4.27	2.35	2.30	4500	23.08
	Slewing frame with railings and slewing gear motor (disassembled)		2.32	2.57	2.97	13300	17.71
	Tower top lower part adapter		2.32	2.80	2.52	2600	14.73
1	Operator cabin suspension		2.72	2.00	0.57	400	3.10
1	Operator cabin		1.90	1.44	2.34	750	6.40
1	Counterjib with struts and pedestals		8.05	2.50	1.09	5900	21.94
1	Machine platform with luffing gear, 2 brakes		1.82	2.23	2.60	4700	10.55
1	Machine platform with hoisting gear, 2 brake (incl. 1000m Ø32mm hoist rope = 5 to)		4.85	2.60	2.45	17500	30.89
1	Box (small parts)		0.63	0.50	0.38	100	1.12
	Standard railings		2.60	1.10	0.65	300	1.86
1	Jib element 1		11.88	2.53	2.25	4100	67.63
1	Jib element 2		10.60	1.98	2.20	3000	46.17
1	Jib element 3		5.43	1.98	2.20	1600	23.65
1	Jib element 4		5.43	1.98	2.20	1400	23.65



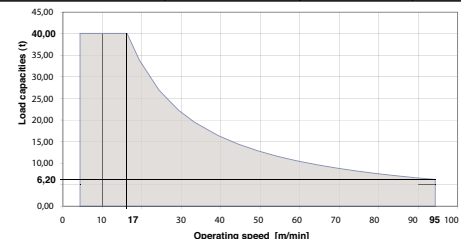
4 Package list

1	Jib element 5		10.60	1.98	2.20	2400	46.17
2	Jib element 6		10.60	1.98	2.20	2100	46.17
1	Jib element 7 (without pedestals)		10.75	1.98	2.23	3500	47.47
1	Pedestals		3.1	0.5	1.5	500	2.33
	Hook block (single reeving)		1.08	0.34	1.99	600	0.73
	Hook block (double reeving)		1.20	0.40	1.99	1000	0.96
	Hook block, triple reeving		1.20	0.50	1.99	1500	1.20
1	Stay rods for 70 m operating radius		10.53	0.60	0.19	2200	1.20
1	Auxiliary crane		3.37	0.40	3.43	300	4.62



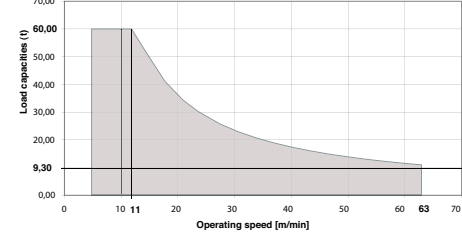
5 Operating speeds


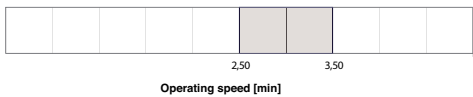
5 Operating speeds


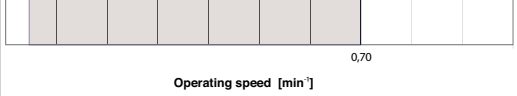
Drive (Model)	Operating speeds Lifting capacity	Max. hook travel (m)	Power (kW)	Total connected load (kVA)
Hw40132FU	Lifting / lowering 	990	132	241.0 Total connected load at coincidence factor of 0.7
	 			
Max. tower height (m) (with jib length of 70 m)				905

Drive (Model)	Operating speeds Lifting capacity	Max. hook travel (m)	Power (kW)	Total connected load (kVA)
Hw40132FU	Lifting / lowering 	495	132	241.0 Total connected load at coincidence factor of 0.7
	 			
Max. tower height (m) (with jib length of 70 m)				410

5 Operating speeds

Drive (Model)	Operating speeds Lifting capacity	Max. hook travel (m)	Power (kW)	Total connected load (kVA)
Hw40132FU	Lifting / lowering 	330	132	241.0 Total connected load at coincidence factor of 0.7
	 			
Max. tower height (m) (with jib length of 70 m)				245

Drive (Model)	Operating speeds	Power (kW)	Total connected load (kVA)
EW 12110FU	Jib luffing in / out 	110	241.0 Total connected load at coincidence factor of 0.7
			

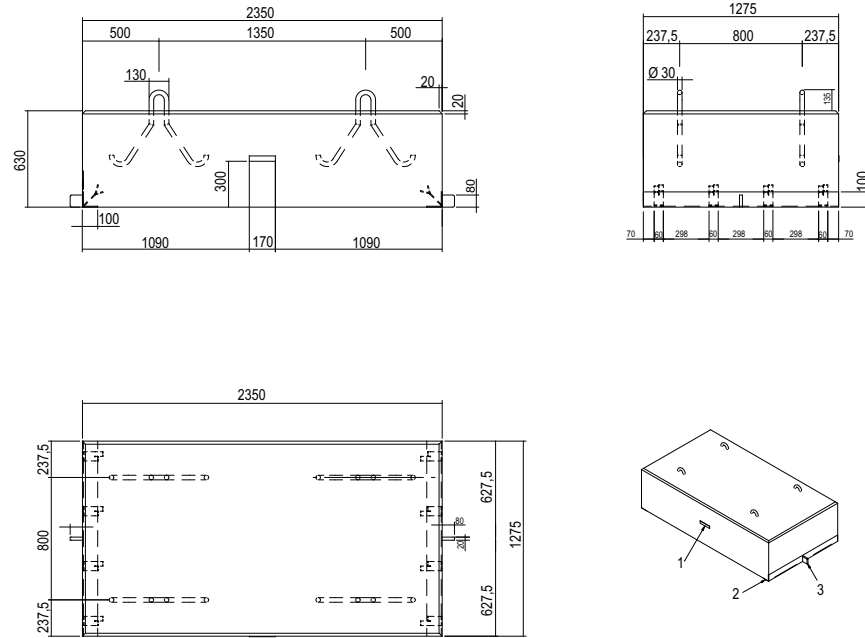
Drive (Model)	Operating speeds	Power (kW)	Total connected load (kVA)
SG	Slewing 	2 x 7.5	241.0 Total connected load at coincidence factor of 0.7
			

6 Assembly weights

6 Assembly weights

6.1 Counterweight blocks

6.1.1 Counterweight block, 4.5 t

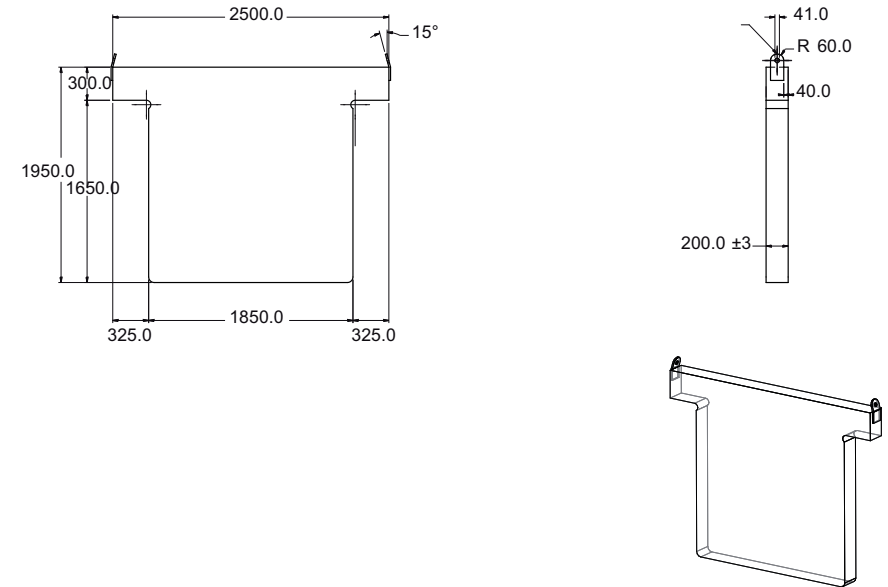


Data counterweight block 4.5 t

Item	Data
Material	Concrete, min. B 25 Density = 2.35 t / m ³
Max. permitted weight tolerance	+ / - 2‰
Order number	30049318
1	Component identifier
2	boarder protection
3	adjustment

6 Assembly weights

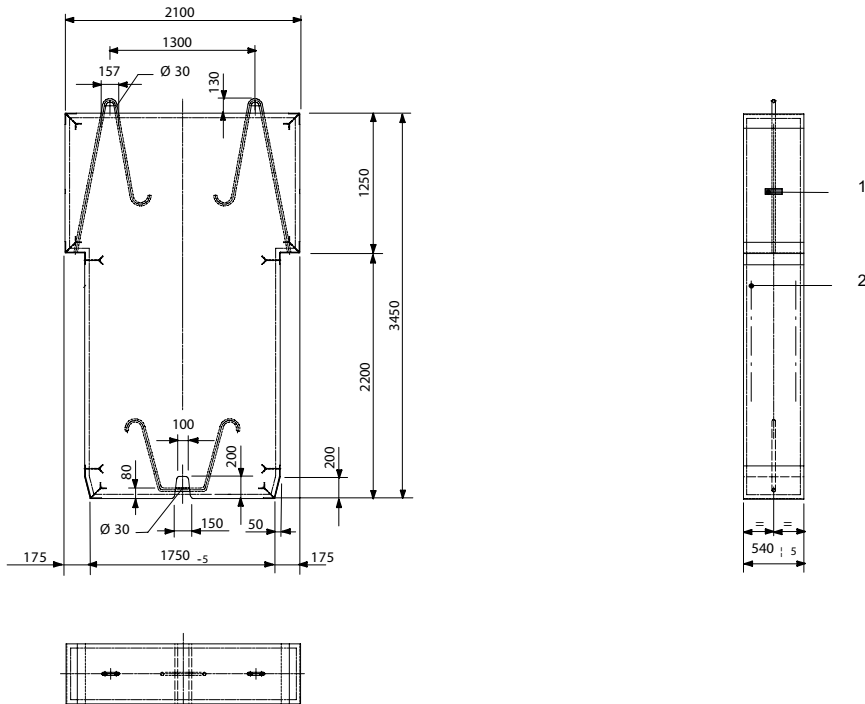
6.1.2 Counter weight block 5.97 tons



Item	Data
Material	Material quality S235JR, max. carbon content 0.5%
Max. permitted weight tolerance	+/- 2 %
Order number	30046411

6 Assembly weights

6.1.3 Counter weight block 8.0 tons



Item	Data
Material	Concrete, min. B 25 Density = 2.35 t / m ³
Max. permitted weight tolerance	+/- 2 %
Order number	30043944
1	Component identifier
2	Structural steel reinforcement

6 Assembly weights

6.2 Total weight jib assembly

Complete jib: mechanical parts, brace plate, supports, assembly brace ropes, assembly rope guides, hook block

Jib length (m)	Weight (kg) WOLFF 700 B
70.0	23300
65.0	21700
60.0	20800
55.0	19200
50.0	18400
45.0	16700
40.0	15600
35.0	14000
30.0	12200

6.3 Assembly weight slewing gear

Module	Crane parts	Weight (kg)	
Tower head section upper part			11015
	▪ Tower head top (including struts, pedestals and standard railing)	10520	
	▪ Pulley block	310	
	▪ Shock absorber	185	
Lower part of tower head section			20360
	▪ SPUT	2590	
	▪ Slewing frame + KDV	13290	
	▪ Connecting block	4480	
Counterjib (including struts, pedestals and standard railing)			5900
Machine platform hoisting gear (1000 m rope = 5 to)			17500
Machine platform boom hoist			4700

6.4 Assembly weight cross frame

Module	crane part	Weight (kg)	
Cross frame KR 12 - 60 (without accessories)			14271
(6m x 6m)	▪ 4 x AZ 140 E 10	788	
	▪ 4 x AZ 156 M	844	
	▪ 4 x AZ 120 E 15.5	728	
	▪ 4 x AZ 140 M	788	
	▪ 4 x AZ 140 E 17	875	
	▪ 4 x AZ 160 HT 23	668	
Cross frame KR 12-60/80 (without accessories)			17732
(8m x 8m)	▪ 4 bolted spigots AZ 140 E 10	788	
	▪ 4 bolted spigots AZ 156 M	844	
	▪ 4 bolted spigots AZ 120 E15.5	728	
	▪ 4 bolted spigots AZ 140 M	788	
	▪ 4 bolted spigots AZ 140 E17	875	
	▪ 4 bolted spigots AZ 160 HT23	668	
Cross frame KR 16 - 80 (without accessories)			21450
	▪ 4 bolted spigots AZ 140 E KR 16-80	620	
	▪ 4 bolted spigots AZ 156 M KR 16-80	680	
	▪ 4 bolted spigots AZ 156S M KR 16-80	675	
Cross frame KR 16 - 80/ 100 (without accessories)			25400
(10 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 Hook height above ground required for mobile cranes

For the tower height of the WOLFF slewing tower crane, please refer to the Tower combinations [6].

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 crane (X) = height of the WOLFF slewing tower crane (A) + clearance 29 m (B).

[A]	Height of the WOLFF slewing tower crane	[B]	Clearance 29 m
[X]	Hook height above ground required for the mobile crane		
1	Undercarriage	5	Double slings (3m with shackle)
2	Tower element	6	Double slings (4m with shackle)
3	Counterjib, complete	7	Jib, complete
4	Four-point lifting tackle (with shackle)	8	Tower head section, complete

(see also):

- Tower combinations [6]

7 Assembly diagrams

7.1 Jib attachment diagram



NOTICE

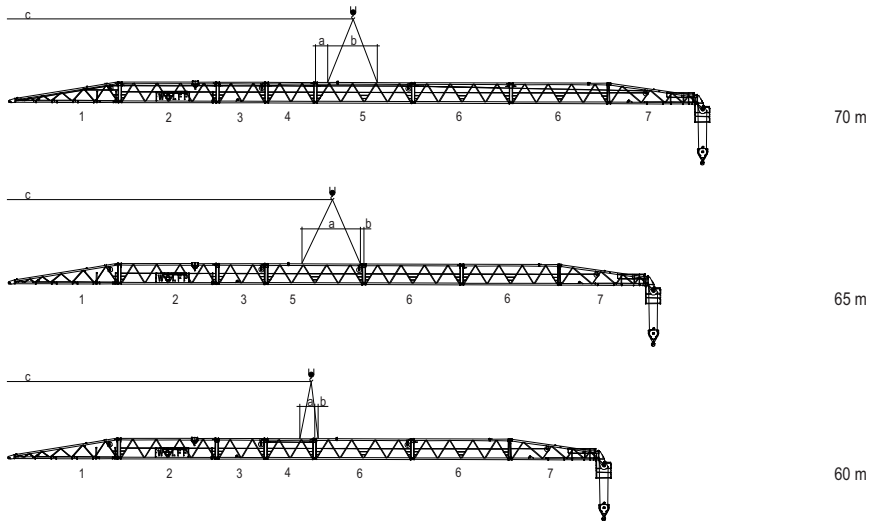
For jib assembly, use a two-point lifting tackle of at least 6 m in length.

Length of jib elements

Item	in [m]
Jib element 1	11.60
Jib element 2, 5, 6	10.35
Jib element 3, 4	5.18
Jib element 7	9.97

7 Assembly diagrams

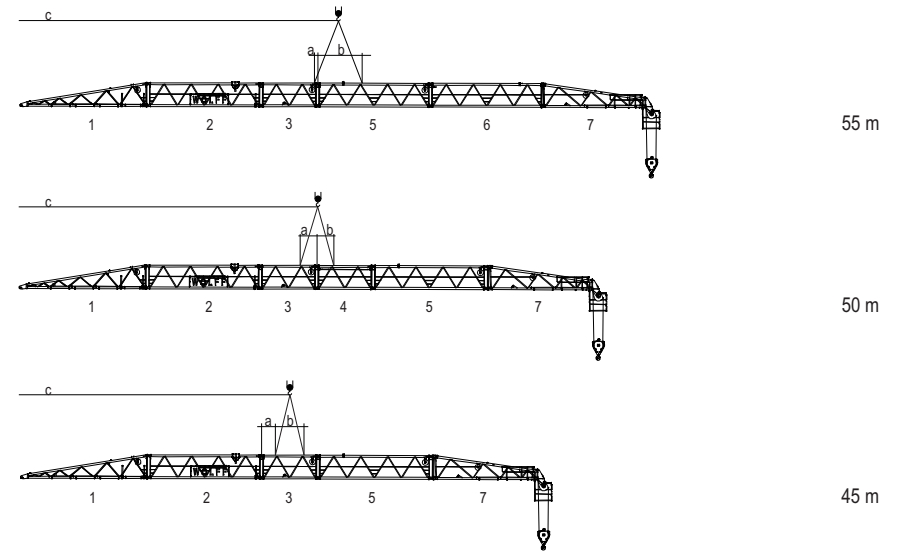
7.1.1 Jib attachment diagram 70 m to 60 m



Data	Jib length (m)		
	70	65	60
a [m]	1.35	6.14	1.50
b [m]	5.17	0.38	0.20
c [m]	36.20	34.00	31.70
Weight (kg)	23300	21700	20800

7 Assembly diagrams

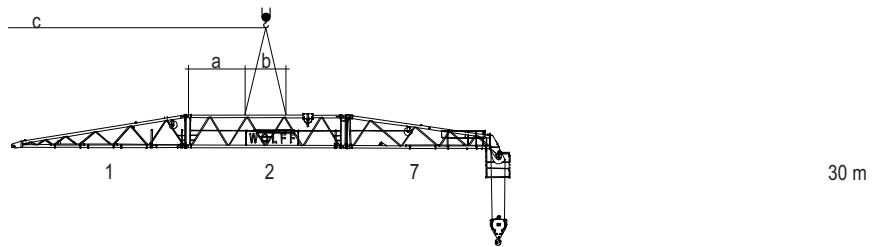
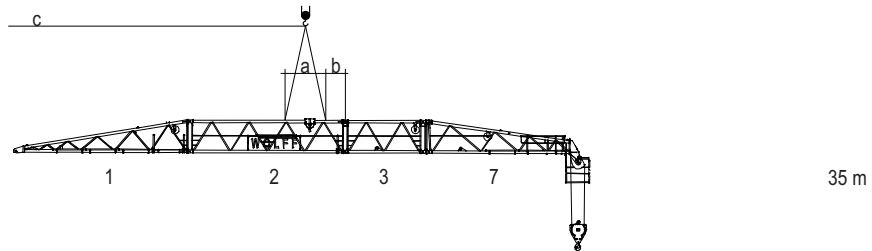
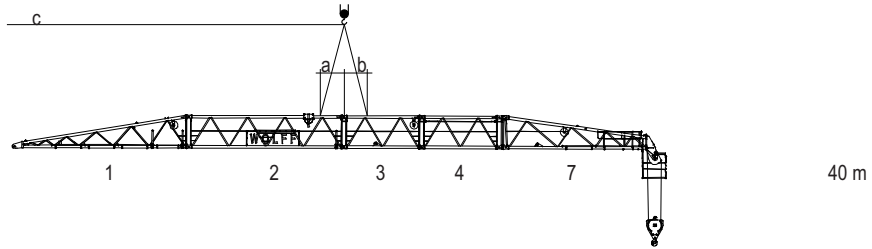
7.1.2 Jib attachment diagram 55 m to 45 m



Data	Jib length (m)		
	55	50	45
a [m]	0.20	1.50	1.30
b [m]	3.87	1.50	2.57
c [m]	29.00	27.10	24.50
Weight (kg)	19200	18400	16700

7 Assembly diagrams

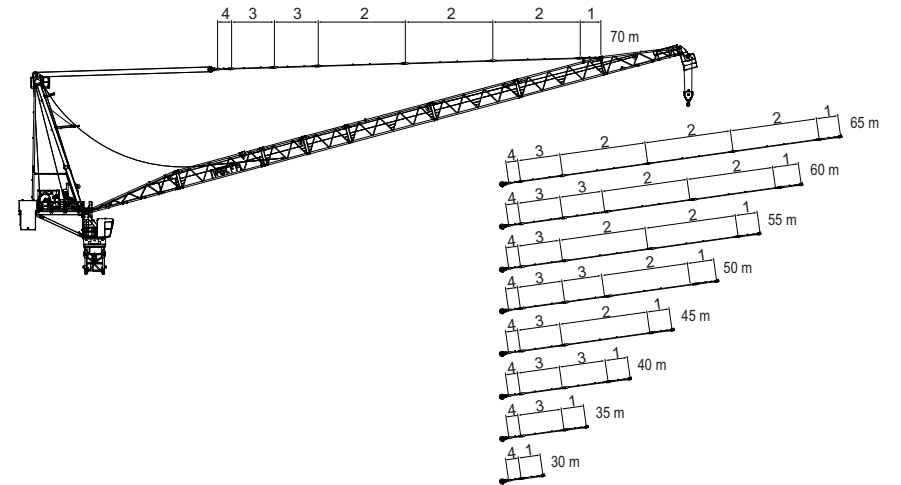
7.1.3 Jib attachment diagram 40 m to 30 m



Data	Jib length (m)		
	40	35	30
a [m]	1.55	2.68	3.83
b [m]	1.50	1.35	2.69
c [m]	21.90	19.30	16.80
Weight (kg)	15600	14000	12200

7 Assembly diagrams

7.2 Jib brace diagram



Brace table

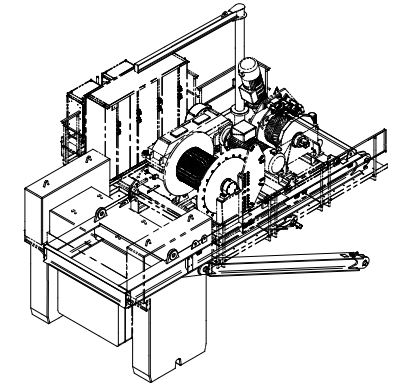
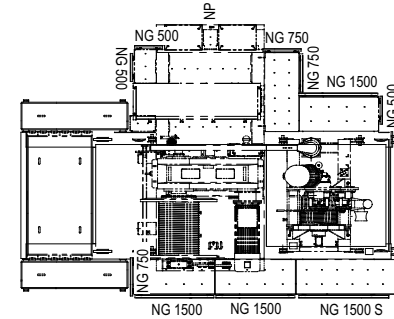
Jib length	Lengths [m]									Total weight [t]
	Pulley block	Stay no. 4	Stay no. 3	Stay no. 3	Stay no. 2	Stay no. 2	Stay no. 2	Stay no. 1	Total length	
Jib – 70 m	0.75	1.60	5.15	5.15	10.30	10.30	10.30	2.48	46.03	2.2
Jib – 65 m	0.75	1.60	5.15	5.15	10.30	10.30	10.30	2.48	40.88	1.9
Jib – 60 m	0.75	1.60	5.15	5.15		10.30	10.30	2.48	35.73	1.7
Jib – 55 m	0.75	1.60	5.15			10.30	10.30	2.48	30.58	1.5
Jib – 50 m	0.75	1.60	5.15	5.15			10.30	2.48	25.43	1.3
Jib – 45 m	0.75	1.60	5.15				10.30	2.48	20.28	1.0
Jib – 40 m	0.75	1.60	5.15	5.15				2.48	15.13	0.8
Jib – 35 m	0.75	1.60	5.15					2.48	9.98	0.5
Jib – 30 m	0.75	1.60						2.48	4.83	0.3

7.3 Arrangement of the standard railings (NG)

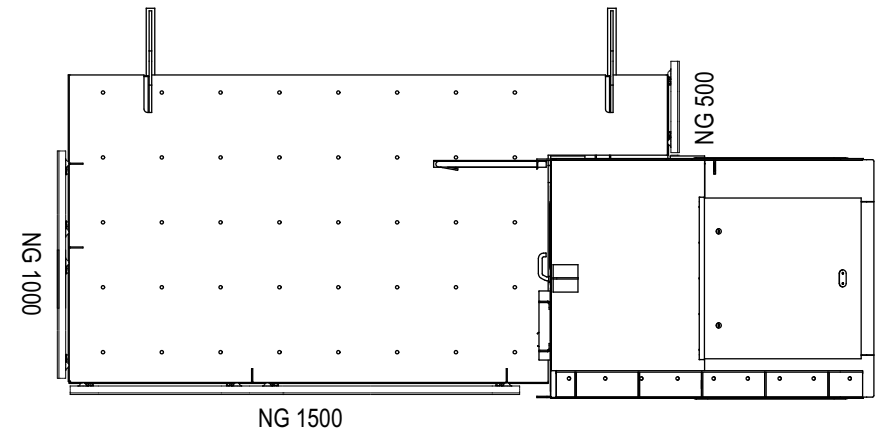
7.3.1 Standard railings (NG) and accessories

Quantity	Standard railings (NG) / accessories	Article no.
3	Standard stays Ø42.4 x 1090	30000167
7	Standard railings NG 500	30018793
7	Standard railings NG 750	30018794
1	Standard railings NG 1000	30018795
4	Standard railings NG 1500	30018796
1	Standard railings NG 1500 S	30046289
3	Standard railings NG 2000	30018797

7.3.2 Arrangement of standard railings

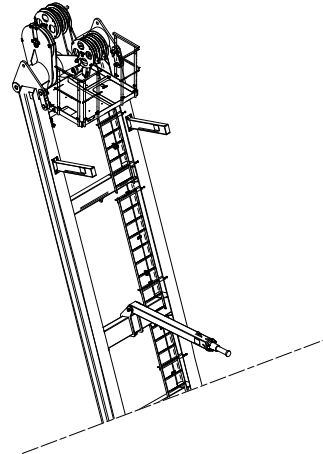
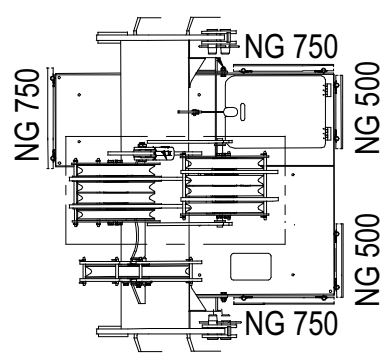


Arrangement of standard railings, counterjib

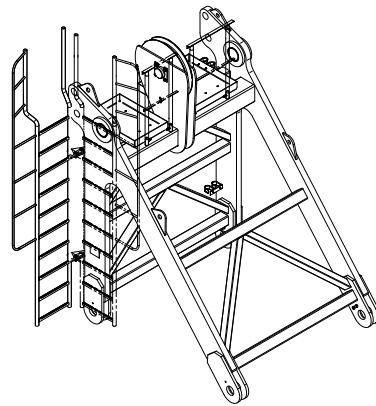
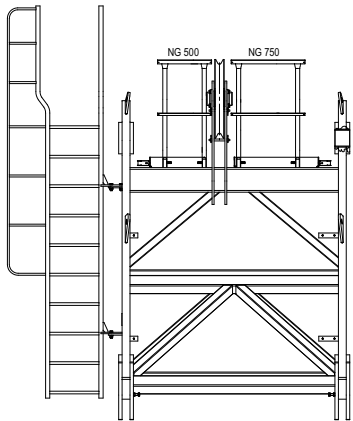


Arrangement of standard railings, operator cabin

7 Assembly diagrams

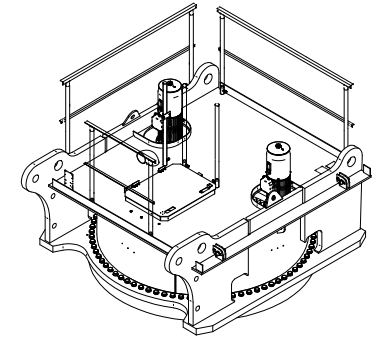
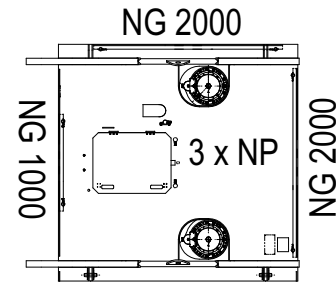


Arrangement of standard railings, tower head section



Arrangement of standard railings, connecting block

7 Assembly diagrams



Arrangement of standard railings, slewing frame

8 Suitable climbing frames

This section contains information on

- Outer climbing frames
- Inner climbing frames (KSH)



WARNING

Climbing unit attached to the cat head bottom section
Increased wind surface. The slewing tower crane may overturn.

- 1) Lower the climbing unit down on the tower, or
- 2) dismantle the climbing unit.



NOTICE

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.

8.1 Outer climbing frames




NOTICE

If feasible, you should preferably operate your climbing frame without balancing weight.

8 Suitable climbing frames

8.1.1 Outer climbing unit KWH 23

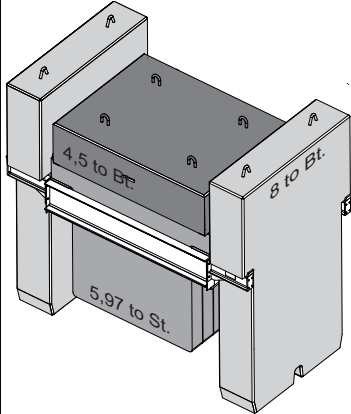
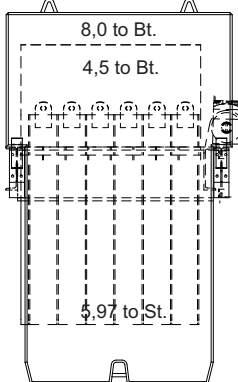
	NOTICE
	<p>Details for climbing balancing</p> <p>The climbing balancing details obtain to the double reeving hook block which includes that the Hook position is on the same height as the cat head bottom section. (Hook height = cat head bottom section)</p>

Climbing radius (m) for the balancing weights

700B	Jib length (m)									
	70	65	60	55	50	45	40	35	30	
no weight	35.6	37.8	38.8	41.3	42.1	-	-	-	-	
HT 23 = 3.94 to	-	-	-	-	-	32.1	33.0	-	-	
Weight t = 5.0 t	-	-	-	-	-	-	30.6	32.0	-	
Weight t = 10.0 t	-	-	-	-	-	-	-	23.2	24.2	

9 Arrangement of counterweight blocks

9 Arrangement of counterweight blocks

Jib length (m)	70	65	60	55	50	45	40	35	30
Total weight 56.32 t									
						6 x 5.97 tons suspended steel weight			
						2 x 8.0 tons suspended concrete weight			
						1 x 4.5 tons lying concrete weight			

10 Static data

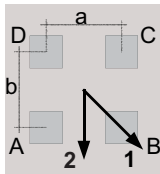
10.1 General- Central ballast weights/ corner loads in compliance with EN 13001/FEM 1.005

Jib positions Jib positions

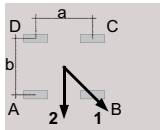
The corner loads are given for two jib positions with the maximum corner load resulting from jib position 1.

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

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



Cross frame or cross frame element



Undercarriage

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

Wind load with crane out of operation Windbelastung ausser Betrieb

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.

10.1.1 Foundation loads jib 30 m - 40 m

Slewing section with 30m - 40m jib on foundation

Slewing tower crane without climbing frame

TH	Crane in service			Crane out of service			Assembly		
	Slewing torque: 500 kNm			Wind region C25					
TH	M	V	H	M	V	H	M	V	H
(m)	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
4.5	6790	1352	35	5280	1352	85	2300	742	14
9.0	6970	1392	37	5690	1391	92	2370	782	15
13.5	7180	1431	39	6150	1431	98	2440	821	16
18.0	7410	1470	41	6650	1470	106	2520	860	17
22.5	7670	1510	43	7210	1510	113	2620	900	18
27.0	7960	1549	45	7820	1549	120	2720	939	20
31.5	8280	1588	48	8480	1588	127	2830	978	21
36.0	8640	1628	50	9220	1627	134	2960	1018	22
40.5	9030	1667	52	10020	1667	141	3090	1057	23
45.0	9470	1706	54	10890	1706	148	3240	1096	25
49.5	9970	1746	56	11854	1746	155	3400	1136	26
54.0	10450	1786	59	12840	1786	162	3560	1176	27
Tower combination with base tower element BT 29									
56.2	10360	1847	61	13000	1847	170	3590	1237	28
60.7	10860	1894	64	14070	1894	178	3760	1284	30
65.2	11410	1940	66	15230	1940	186	3950	1330	31

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

10 Static data

10.1.2 Foundation loads jib 45m - 70m

Slewing section with 45m - 70m jib on foundation

Slewing tower crane without climbing frame

TH	Crane in service			Crane out of service			Assembly		
	Slewing torque: 500 kNm			Wind region C25					
	M	V	H	M	V	H	M	V	H
(m)	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
4.5	7590	1544	34	6270	1419	108	7150	814	14
9.0	7690	1534	34	6790	1459	115	7230	854	15
13.5	7890	1573	37	7360	1498	122	7330	893	17
18.0	8120	1613	39	7980	1537	129	7430	932	18
22.5	8380	1652	41	8650	1577	136	7560	972	19
27.0	8680	1691	43	9390	1616	143	7700	1011	20
31.5	9010	1731	45	10190	1655	150	7860	1050	22
36.0	9390	1770	48	11060	1695	157	8040	1090	23
40.5	9810	1809	50	12020	1734	164	8240	1129	24
45.0	10280	1849	52	13060	1774	171	8470	1169	25
49.5	10760	1918	55	14120	1813	178	8690	1208	26
Tower combination with base tower element BT 29									
51.7	10710	1973	57	14350	1868	185	8670	1263	28
56.2	11200	2019	59	15720	1914	239	8900	1309	29
60.7	11750	2065	62	17420	1961	252	9160	1356	31

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