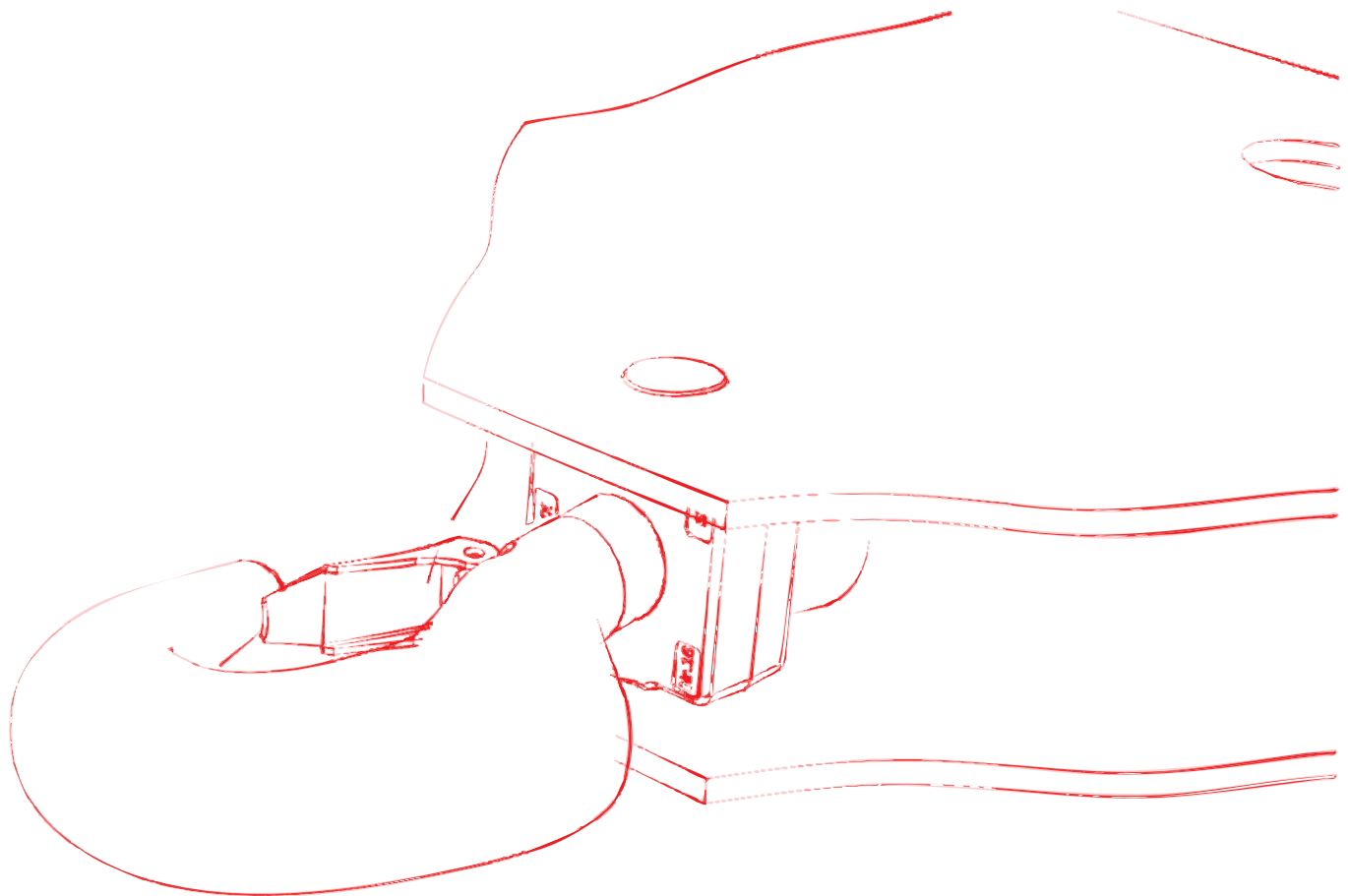


Slewing tower crane

WOLFF 1250 B

Technical information



English

English



*Published by*

**WOLFFKRAN GmbH**

Austraße 72

74076 Heilbronn

Germany

Phone +49 7131 9815 0

Fax +49 7131 9815 355

[www.wolffkran.com](http://www.wolffkran.com)

[info@wolffkran.de](mailto:info@wolffkran.de)

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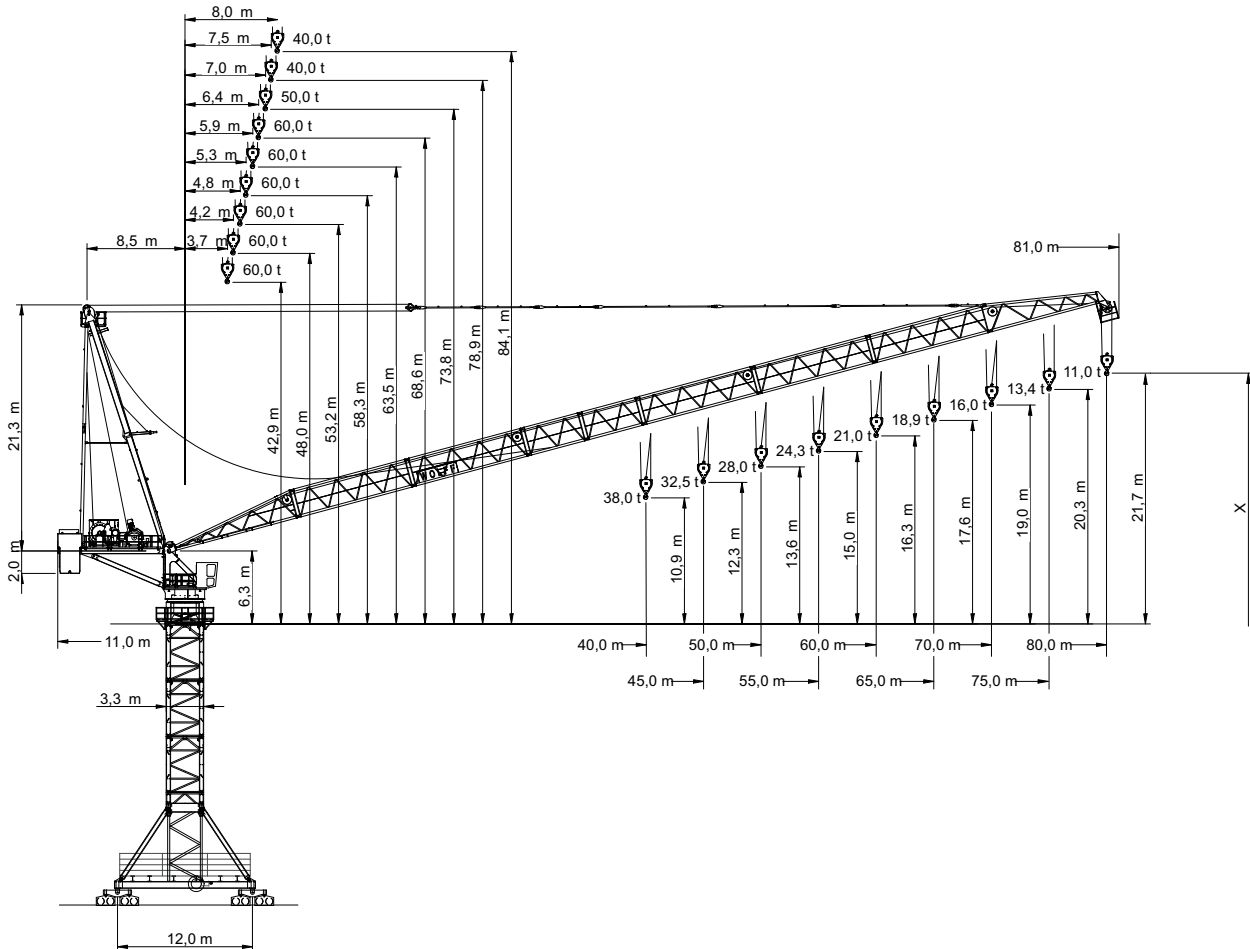
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## 1 Schedule drawing

### 1.1 Schedule drawing WOLFF 1250 B




[X]	max. hook height above ground
-----	-------------------------------

#### Data WOLFF 1250B


Item	Data
Crane type	BGL GROUP C.0.11.1250
Design	Overhead travelling crane with top slewing luffing jib, with climbing feature
Type of setup	Stationary or travelling
Basis of calculation	EN
Load moment	max. 15000 kNm
Hoist winch	Hw 40132FU

## 2 Load carrying capacities

## 2 Load carrying capacities

	<b>NOTICE</b>
<p>WOLFF-Boost</p> <p>With the WOLFF-Boost function, the load is allowed to exceed the load torque range specified for the lifting capacities by up to 10%. This is, however, subject to the restriction that hoisting gear and trolley drive (trolley crane) respectively hoisting gear and derricking gear (luffing crane) must only be moved alternately.</p>	

### 2.1 Table of load carrying capacity WOLFF 1250 B (1 fall operation)

 20 t		Operating radius [m]	30	35	40	45	50	55	60	65	70	75	80	LCC [t]
JL [m]	80	8.0 - 52.0	20.0	20.0	20.0	20.0	20.0	18.6	16.6	14.9	13.4	12.1	11.0	
	75	7.5 - 55.5	20.0	20.0	20.0	20.0	20.0	20.0	18.1	16.3	14.7	13.4		
	70	7.0 - 59.0	20.0	20.0	20.0	20.0	20.0	20.0	19.6	17.7	16.0			
	65	6.4 - 61.5	20.0	20.0	20.0	20.0	20.0	20.0	20.0	18.9				
	60	5.9 - 60.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0					
	55	5.3 - 55.0	20.0	20.0	20.0	20.0	20.0	20.0						
	50	4.8 - 50.0	20.0	20.0	20.0	20.0	20.0							
	45	4.2 - 45.0	20.0	20.0	20.0	20.0								
	40	3.7 - 40.0	20.0	20.0	20.0									
JL			Jib length											
LCC			Load carrying capacity											

The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (one fall operation = 5.04 kg per meter of the hook range).


## 2 Load carrying capacities

### 2.2 Table of load carrying capacities (kg) in meter intervals, WOLFF 1250 B (1 fall operation)

Operating radius [m]	Jib length [m]			
	65	70	75	80
51	20000	20000	20000	20000
52	20000	20000	20000	20000
53	20000	20000	20000	19510
54	20000	20000	20000	19050
55	20000	20000	20000	18600
56	20000	20000	19770	18160
57	20000	20000	19330	17740
58	20000	20000	18910	17340
59	20000	20000	18490	16950
60	20000	19580	18100	16570
61	20000	19170	17710	16210
62	19840	18770	17340	15850
63	19510	18380	16980	15510
64	19200	18010	16630	15180
65	18900	17650	16290	14860
66		17300	15960	14550
67		16960	15640	14240
68		16630	15330	13950
69		16310	15030	13660
70		16000	14740	13390
71			14460	13120
72			14180	12860
73			13910	12600
74			13650	12360
75			13400	12110
76				11880
77				11650
78				11430
79				11210
80				11000



## 2.3 Table of load carrying capacity WOLFF 1250 B (2 fall operation)

 40 t		Operating radius [m]	Operating radius [m]											LCC [t]
			30	35	40	45	50	55	60	65	70	75	80	
JL [m]	80	8.0 - 29.0	38.4	31.9	27.1	23.3	20.2	17.8	15.7	13.9	12.4	11.1	10.0	LCC [t]
	75	7.5 - 30.5	40.0	34.0	29.0	25.0	21.9	19.3	17.1	15.3	13.8	12.4		
	70	7.0 - 32.0	40.0	36.1	30.8	26.7	23.4	20.7	18.5	16.6	15.0			
	65	6.4 - 33.0	40.0	37.4	32.1	28.0	24.7	22.0	19.8	17.9				
	60	5.9 - 34.0	40.0	38.8	33.4	29.3	26.0	23.3	21.0					
	55	5.3 - 35.0	40.0	40.0	34.6	30.4	27.1	24.3						
	50	4.8 - 36.0	40.0	40.0	35.7	31.4	28.0							
	45	4.2 - 37.0	40.0	40.0	36.8	32.5								
	40	3.7 - 38.0	40.0	40.0	38.0									
JL			Jib length											
LCC			Load carrying capacity											


The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (two fall operation = 10.08 kg per meter of the hook range).

## 2 Load carrying capacities

### 2.4 Table of load carrying capacities (kg) in meter intervals, WOLFF 1250 B (2 fall operation)

Operating radius [m]	Jib length [m]								
	40	45	50	55	60	65	70	75	80
28	40000	40000	40000	40000	40000	40000	40000	40000	40000
29	40000	40000	40000	40000	40000	40000	40000	40000	40000
30	40000	40000	40000	40000	40000	40000	40000	40000	38430
31	40000	40000	40000	40000	40000	40000	40000	39250	36960
32	40000	40000	40000	40000	40000	40000	40000	37820	35590
33	40000	40000	40000	40000	40000	40000	38600	36480	34300
34	40000	40000	40000	40000	40000	38680	37290	35210	33080
35	40000	40000	40000	40000	38750	37430	36050	34020	31930
36	40000	40000	40000	38800	37560	36260	34880	32890	30850
37	40000	40000	38840	37670	36440	35150	33780	31830	29830
38	40000	38890	37740	36590	35380	34090	32730	30820	28850
39	38970	37840	36700	35570	34380	33090	31730	29860	27930
40	38000	36840	35710	34600	33420	32140	30790	28950	27060
41		35880	34770	33680	32510	31240	29890	28090	26230
42		34980	33880	32800	31650	30380	29040	27260	25430
43		34110	33020	31970	30820	29560	28220	26480	24680
44		33290	32210	31170	30030	28780	27440	25730	23960
45		32500	31430	30410	29280	28030	26700	25010	23270
46			30680	29680	28560	27310	25980	24330	22610
47			29970	28980	27870	26630	25300	23670	21980
48			29290	28310	27210	25970	24650	23040	21370
49			28630	27660	26580	25340	24020	22440	20790
50			28000	27050	25970	24740	23420	21860	20240
51				26450	25380	24160	22840	21300	19700
52				25890	24820	23600	22290	20770	19190
53				25340	24280	23060	21750	20250	18690
54				24810	23760	22540	21240	19760	18210
55				24300	23260	22040	20740	19280	17750
56					22770	21560	20260	18820	17310
57					22310	21100	19800	18370	16880
58					21860	20650	19360	17940	16470
59					21420	20220	18930	17530	16070
60					21000	19800	18510	17130	15690
61						19390	18110	16740	15310
62						19000	17720	16370	14950
63						18620	17340	16000	14600
64						18260	16970	15650	14260
65						17900	16620	15310	13940
66							16280	14980	13620
67							15940	14660	13310
68							15620	14350	13010
69							15310	14040	12720
70							15000	13750	12440
71								13470	12160
72								13190	11900
73								12920	11640
74								12660	11380
75								12400	11140
76									10900
77									10660
78									10440
79									10220
80									10000

### 2.5 Load carrying capacity table WOLFF 1250 B (3 fall operation)

 60 t		Operating radius [m]		30	35	40	45	50	55	60	65	70	75	80	
JL [m]	70	7.0 - 26.0	50.0 t	42.4	35.3	30.0	25.8	22.5	19.8	17.6	15.6	<b>14.0</b>			LCC [t]
	65	6.4 - 22.5	60.0 t	43.5	36.5	31.2	27.0	23.8	21.1	18.8	<b>16.9</b>				
	60	5.9 - 23.0		44.9	37.8	32.4	28.3	25.0	22.3	<b>20.0</b>					
	55	5.3 - 23.5		46.1	39.0	33.6	29.4	26.0	<b>23.3</b>						
	50	4.8 - 24.0		47.3	40.1	34.6	30.4	<b>27.0</b>							
	45	4.2 - 24.5		48.5	41.2	35.8	<b>31.5</b>								
	40	3.7 - 25.0		49.8	42.5	<b>37.0</b>									
JL	Jib length														
LCC	Load carrying capacity														

The load carrying capacity is related to a tower height of 40.5 m. Tower heights greater than that reduce the maximum load carrying capacity by the weight of the additional hoisting ropes (three fall operation = 15.12 kg per meter of the hook range).

## 2 Load carrying capacities

### 2.6 Table of load carrying capacities (kg) in meter intervals, WOLFF 1250 B (3 fall operation)

Operating radius [m]	Jib length [m]								
	40	45	50	55	60	65	70	75	80
20	60000	60000	60000	60000	60000	60000	50000	-	-
21	60000	60000	60000	60000	60000	60000	50000	-	-
22	60000	60000	60000	60000	60000	60000	50000	-	-
23	60000	60000	60000	60000	60000	58570	50000	-	-
24	60000	60000	60000	58670	57300	55880	50000	-	-
25	60000	58750	57460	56160	54810	53410	50000	-	-
26	57640	56390	55120	53840	52520	51130	50000	-	-
27	55460	54210	52950	51690	50390	49010	47880	-	-
28	53430	52180	50930	49700	48420	47050	45910	-	-
29	51540	50290	49060	47850	46580	45230	44080	-	-
30	49780	48530	47310	46120	44860	43520	42360	-	-
31	48130	46880	45670	44500	43260	41930	40760	-	-
32	46580	45340	44130	42980	41760	40430	39260	-	-
33	45130	43890	42690	41550	40340	39030	37850	-	-
34	43760	42520	41330	40210	39010	37700	36520	-	-
35	42480	41230	40050	38950	37760	36460	35270	-	-
36	41260	40020	38850	37750	36580	35280	34090	-	-
37	40110	38860	37700	36620	35460	34170	32970	-	-
38	39020	37770	36620	35550	34400	33110	31910	-	-
39	37980	36740	35590	34530	33390	32110	30910	-	-
40	37000	35760	34620	33570	32430	31160	29950	-	-
41		34820	33690	32650	31520	30260	29050	-	-
42		33930	32800	31770	30660	29400	28180	-	-
43		33080	31960	30940	29830	28570	27360	-	-
44		32270	31150	30140	29040	27790	26570	-	-
45		31500	30380	29380	28290	27040	25820	-	-
46			29650	28660	27570	26320	25100	-	-
47			28940	27960	26880	25640	24410	-	-
48			28270	27290	26220	24980	23750	-	-
49			27620	26650	25580	24350	23120	-	-
50			27000	26040	24970	23750	22510	-	-
51				25450	24390	23160	21930	-	-
52				24880	23830	22600	21360	-	-
53				24330	23280	22070	20820	-	-
54				23810	22760	21550	20300	-	-
55				23300	22260	21050	19800	-	-
56					21780	20570	19320	-	-
57					21310	20100	18850	-	-
58					20860	19650	18400	-	-
59					20420	19220	17970	-	-
60					20000	18800	17550	-	-
61						18400	17140	-	-
62						18000	16740	-	-
63						17620	16360	-	-
64						17260	15990	-	-
65						16900	15640	-	-
66							15290	-	-
67							14950	-	-
68							14630	-	-
69							14310	-	-
70							14000	-	-
71								-	-
72								-	-

## 3 Tower combinations



### **! DANGER**

Usage of incorrect tower combinations.

The slewing tower crane may overturn.

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



### **NOTICE**

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

## 3 Tower combinations

### 3.1 Tower combinations on foundation (slewing section with TV 33-5 - connection)

Jib length		40 to 60 m	65 to 70 m	75 to 80 m
Elements				
1	5.0 m	TV 33-5	TV 33-5	TV 33-5
2	10.0 m	TV 33-5	TV 33-5	TV 33-5
3	15.0 m	TV 33-5	TV 33-5	TV 33-5
4	20.0 m	TV 33-5	TV 33-5	TV 33-5
5	25.0 m	TV 33-5	TV 33-5	TV 33-5
6	30.0 m	TV 33-5	TV 33-5	TV 33-5
7	35.0 m	TV 33-5	TV 33-5	TV 33-5
8	40.0 m	TV 33-5	TV 33-5	TV 33-5
9	45.0 m	TV 33-5	TV 33-5	TV 33-5
10	50.0 m	TV 33-5	TV 33-5	TV 33-5
11	55.0 m	TV 33-5	TV 33-5	TV 33-5
12	60.0 m	TV 33-5	TV 33-5	TV 33-5
13	65.0 m	TV 33-5	TV 33-5	TV 33-5
14	70.0 m	TV 33-5	TV 33-5	TV 33-5
15	75.0 m	TV 33-5	TV 33-5	TV 33-5
16	80.0 m	TV 33-5	TV 33-5	TV 33-5
17	85.0 m	TV 33-5	TV 33-5	
18	90.0 m	TV 33-5		
Foundation anchors		FUA G	FUA G	FUA G
Tower height [m]		90.0	85.0	80.0
Wind category		C25		

## 3.2 Tower combinations on cross frame element (slewing section with TV 33-5 - connection)

Jib length		40 to 55 m	60 to 70 m	75 to 80 m
Item				
1	5.0 m	TV 33-5	TV 33-5	TV 33-5
2	10.0 m	TV 33-5	TV 33-5	TV 33-5
3	15.0 m	TV 33-5	TV 33-5	TV 33-5
4	20.0 m	TV 33-5	TV 33-5	TV 33-5
5	25.0 m	TV 33-5	TV 33-5	TV 33-5
6	30.0 m	TV 33-5	TV 33-5	TV 33-5
7	35.0 m	TV 33-5	TV 33-5	TV 33-5
8	40.0 m	TV 33-5	TV 33-5	TV 33-5
9	45.0 m	TV 33-5	TV 33-5	TV 33-5
10	50.0 m	TV 33-5	TV 33-5	TV 33-5
11	55.0 m	TV 33-5	TV 33-5	TV 33-5
12	60.0 m	TV 33-5	TV 33-5	TV 33-5
13	65.0 m	TV 33-5	TV 33-5	TV 33-5
14	70.0 m	TV 33-5	TV 33-5	TV 33-5
15	75.0 m	TV 33-5	TV 33-5	
16	80.0 m	TV 33-5		
Substructure		KRE 4120	KRE 4120	KRE 4120
Corner distance [m x m]		12.0 x 12.0	12.0 x 12.0	12.0 x 12.0
Substructure height [m]		8.7	8.7	8.7
Tower height [m]		88.7	83.7	78.7
Wind category		C25		


## 3 Tower combinations

### 3.3 Tower combinations on undercarriage (slewing section with TV 33-5 - connection)

Jib length		40 to 55 m	60 to 70 m	75 to 80 m
Item				
1	5.0 m	TV 33-5	TV 33-5	TV 33-5
2	10.0 m	TV 33-5	TV 33-5	TV 33-5
3	15.0 m	TV 33-5	TV 33-5	TV 33-5
4	20.0 m	TV 33-5	TV 33-5	TV 33-5
5	25.0 m	TV 33-5	TV 33-5	TV 33-5
6	30.0 m	TV 33-5	TV 33-5	TV 33-5
7	35.0 m	TV 33-5	TV 33-5	TV 33-5
8	40.0 m	TV 33-5	TV 33-5	TV 33-5
9	45.0 m	TV 33-5	TV 33-5	TV 33-5
10	50.0 m	TV 33-5	TV 33-5	TV 33-5
11	55.0 m	TV 33-5	TV 33-5	TV 33-5
12	60.0 m	TV 33-5	TV 33-5	
13	65.0 m	TV 33-5		
Substructure		UW 4120	UW 4120	UW 4120
Corner distance [m x m]		12.0 x 12.0	12.0 x 12.0	12.0 x 12.0
Substructure height [m]		10.0	10.0	10.0
Tower height [m]		75.0	70.0	65.0
Wind category		C25		



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

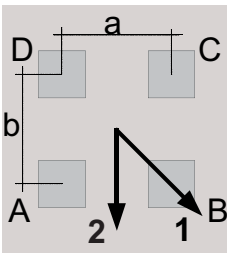
	<b>! DANGER</b>
	<p>Usage of incorrect tower combinations. The slewing tower crane may overturn.</p> <ol style="list-style-type: none"><li>1) Use the specified tower combinations.</li><li>2) If you need another tower combination that is not specified here, please contact WOLFFKRAN to get an approved alternative setup in writing.</li></ol>

### Jib positions

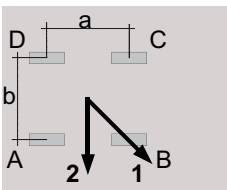
The corner loads are given for two jib positions with the maximum corner load resulting from jib position 1.

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

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



Cross frame or cross frame element



Undercarriage

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

### Wind load with crane out of service

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

Please contact WOLFFKRAN for stability calculations in other wind regions.

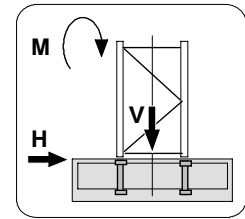
For information on the different substructures, refer to Section 5 of the Operating Manual.

## 4.1 Foundation loads jib 40 m - 60 m

Slewing section 1250 B with 40 m – 60 m jib on foundation.  
Slewing tower crane without climbing device.

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

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



TH:	Crane in service			Crane out of service			Assembly		
	Slewing torque: 750 kNm			Wind category C25					
	M	V	H	M	V	H	M	V	H
[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
5.0	12280	2155	43	9090	1936	110	5070	1161	17
10.0	12520	2254	47	9690	2035	124	5160	1260	19
15.0	12790	2353	51	10360	2134	137	5260	1359	21
20.0	13100	2452	55	11110	2233	151	5380	1458	24
25.0	13440	2551	59	11940	2332	164	5520	1557	26
30.0	13820	2650	64	12850	2431	177	5670	1656	28
35.0	14240	2749	68	13850	2530	190	5840	1755	31
40.0	14710	2848	72	14930	2629	204	6020	1854	33
45.0	15210	2947	76	16110	2728	217	6220	1953	35
50.0	15760	3046	80	17390	2827	230	6440	2052	38
55.0	16370	3145	84	18770	2926	243	6680	2151	40
60.0	17020	3244	88	20260	3025	257	6940	2250	42
65.0	17730	3343	93	21860	3124	270	7220	2349	45
70.0	18510	3442	97	23590	3223	283	7520	2448	47
75.0	19350	3541	101	25450	3322	296	7850	2547	49
80.0	20270	3640	105	27460	3421	310	8200	2646	52
85.0	21270	3739	109	29620	3520	323	8580	2745	54
90.0	22360	3838	113	32050	3619	477	8990	2844	56

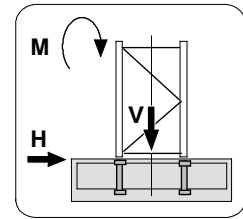
Caption:			
TH:	Tower height	V:	Vertical load
M:	Torque	H:	Horizontal load

## 4.2 Foundation loads jib 65 m - 70 m

Slewing section 1250 B with 65 m – 70 m jib on foundation.  
Slewing tower crane without climbing device.

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

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



TH:	Crane in service			Crane out of service			Assembly		
	Slewing torque: 750 kNm			Wind category C25					
	M	V	H	M	V	H	M	V	H
[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
5.0	12410	2121	42	9320	1967	119	7400	1192	17
10.0	12640	2220	46	9960	2066	132	7500	1291	19
15.0	12910	2319	50	10670	2165	145	7610	1390	22
20.0	13210	2418	54	11460	2264	159	7740	1489	24
25.0	13550	2517	58	12330	2363	172	7880	1588	26
30.0	13930	2616	62	13290	2462	185	8040	1687	29
35.0	14340	2715	67	14330	2561	198	8220	1786	31
40.0	14800	2814	71	15470	2660	212	8420	1885	33
45.0	15300	2913	75	16690	2759	225	8630	1984	36
50.0	15840	3012	79	18020	2858	238	8870	2083	38
55.0	16440	3111	83	19450	2957	252	9130	2182	40
60.0	17080	3210	87	20990	3056	265	9410	2281	43
65.0	17790	3309	92	22650	3155	278	9720	2380	45
70.0	18560	3408	96	24440	3254	291	10050	2479	47
75.0	19390	3507	100	26360	3353	305	10410	2578	50
80.0	20300	3606	104	28580	3452	334	10800	2677	52
85.0	21290	3705	108	31930	3551	358	11220	2776	54

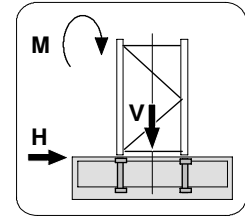
Caption:			
TH:	Tower height	V:	Vertical load
M:	Torque	H:	Horizontal load

## 4.3 Foundation loads jib 75 m - 80 m

Slewing section 1250 B with 75 m – 80 m jib on foundation.  
Slewing tower crane without climbing device.

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

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


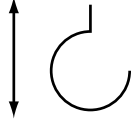
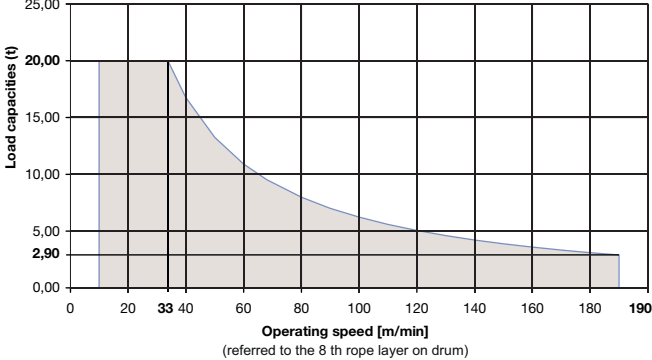



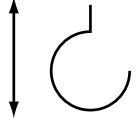
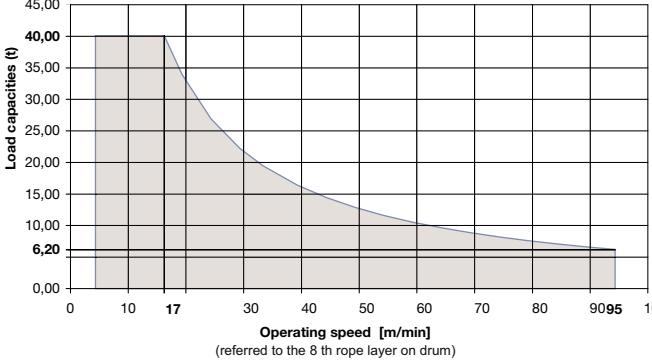
TH:	Crane in service			Crane out of service			Assembly		
	Slewing torque: 750 kNm			Wind category C25					
	M	V	H	M	V	H	M	V	H
[m]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]	[kNm]	[kN]	[kN]
5.0	12400	2098	41	9930	1988	127	9240	1213	17
10.0	12630	2197	45	10610	2087	141	9330	1312	19
15.0	12890	2296	49	11370	2186	154	9450	1411	22
20.0	13190	2395	53	12210	2285	167	9580	1510	24
25.0	13520	2494	58	13130	2384	180	9730	1609	26
30.0	13890	2593	62	14130	2483	194	9900	1708	29
35.0	14020	2582	79	15220	2582	207	10090	1807	31
40.0	14530	2681	84	16410	2681	220	10300	1906	33
45.0	15080	2780	88	17680	2780	233	10520	2005	36
50.0	15680	2879	92	19060	2879	247	10780	2104	38
55.0	16320	2978	96	20550	2978	260	11050	2203	40
60.0	17020	3077	100	22150	3077	273	11350	2302	43
65.0	17780	3176	104	23870	3176	287	11680	2401	45
70.0	18590	3275	108	25720	3275	330	12040	2500	47
75.0	19470	3374	113	28070	3374	414	12420	2599	50
80.0	20420	3473	117	31220	3473	438	12840	2698	52

#### Caption:


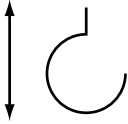
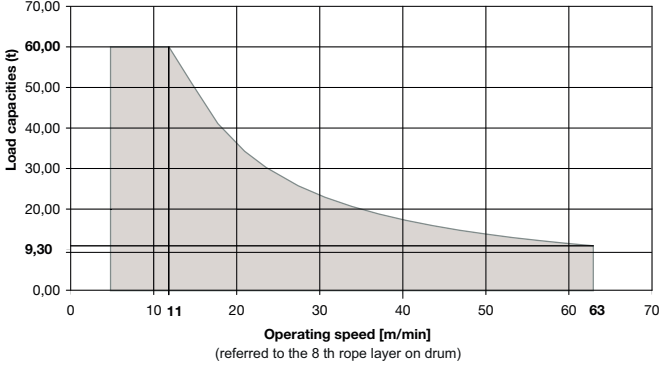
TH:	Tower height	V:	Vertical load
M:	Torque	H:	Horizontal load

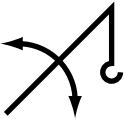
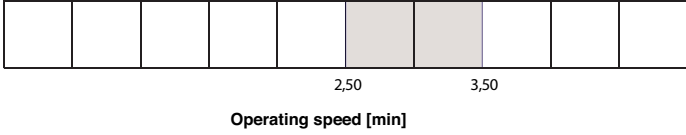
## 5 Operating speeds


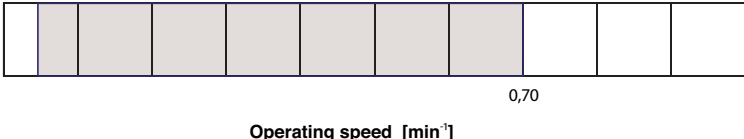
Drive unit [type]	Operating speed Carrying load	Hook travel distance max. [m]	Power [kW]	Total connected wattage [kVA]	
Hw40132FU	Lifting / lowering		990	132	241.0 Total connected load at coincidence factor of 0.7
	 <p style="text-align: center;">(referred to the 8 th rope layer on drum)</p>				
Max. tower height [m] (with jib length of 80 m)				905	

Drive unit [type]	Operating speed Carrying load	Hook travel distance max. [m]	Power [kW]	Total connected wattage [kVA]	
Hw40132FU	Lifting / lowering		495	132	241.0 Total connected load at coincidence factor of 0.7
	 <p style="text-align: center;">(referred to the 8 th rope layer on drum)</p>				
Max. tower height [m] (with jib length of 80 m)				410	



## 5 Operating speeds

Drive unit [type]	Operating speed Carrying load		Hook travel distance max. [m]	Power [kW]	Total connected wattage [kVA]
Hw40132FU	Lifting / lowering		330	132	241.0 Total connected load at coincidence factor of 0.7
	 <p>Operating speed [m/min] (referred to the 8 th rope layer on drum)</p>				
Max. tower height [m] (with jib length of 80 m)					245

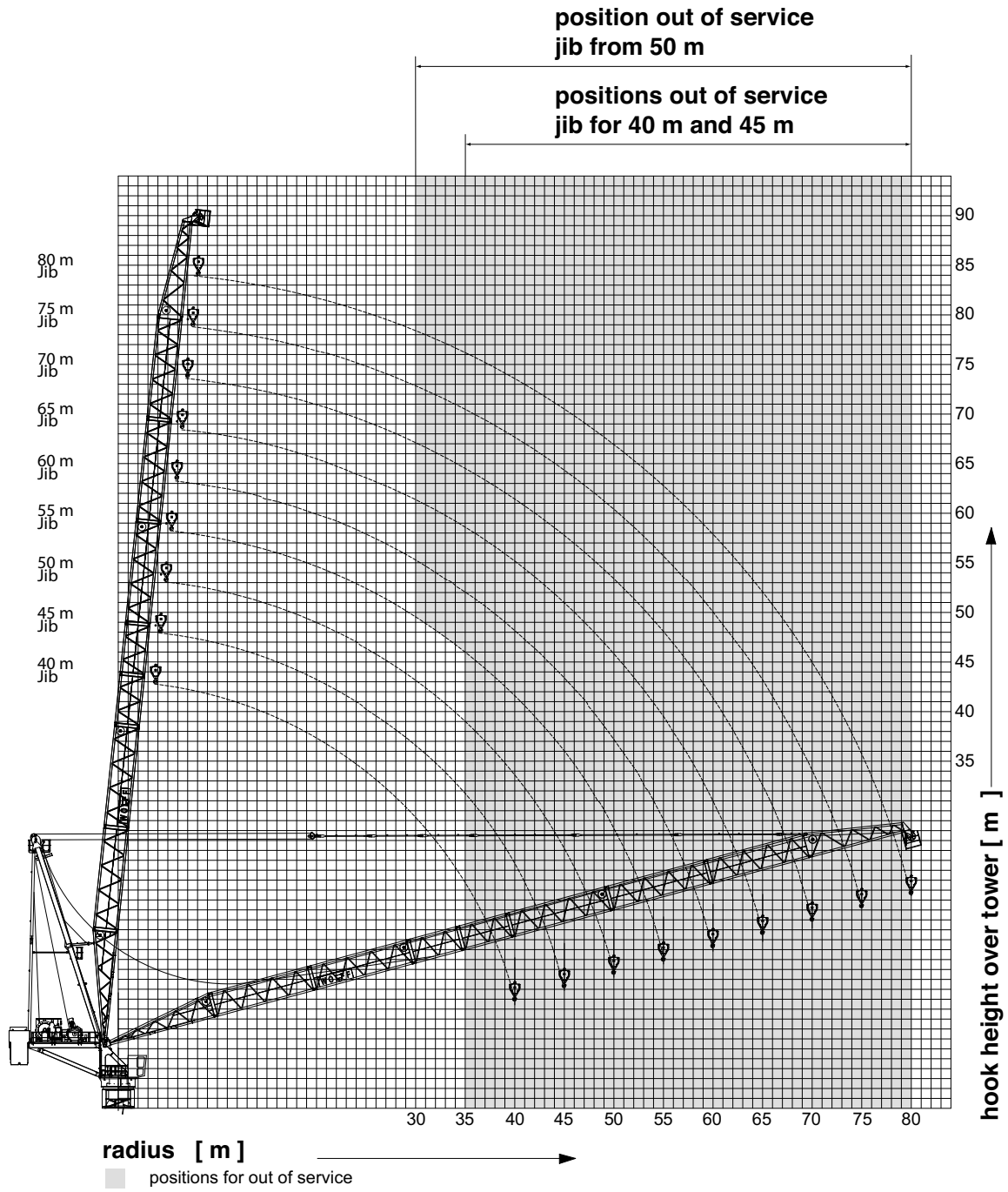
Drive unit [type]	Operating speeds		Power [kW]	Total connected wattage [kVA]
EW 16110FU	Jib luffing in / out		110	241.0 Total connected load at coincidence factor of 0.7
	 <p>Operating speed [min]</p>			

Drive unit [type]	Operating speeds		Power [kW]	Total connected wattage [kVA]
SG	Slewing		2 x 11	241.0 Total connected load at coincidence factor of 0.7
	 <p>Operating speed [min<sup>-1</sup>]</p>			

## 6 Out of service positions

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


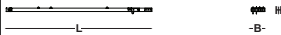
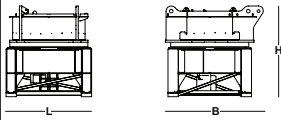


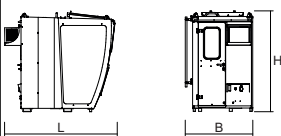
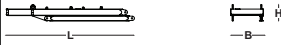



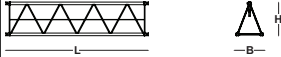
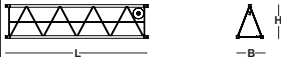


## 6 Out of service positions



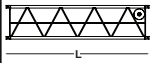
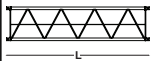
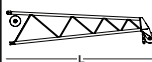
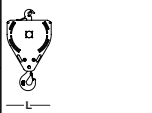
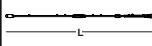
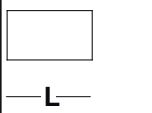


## 7 Package list

### 7.1 Package list 1250 B

Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m <sup>3</sup> ]
1	Tower head section upper part including pulley block and platforms		11.90	2.50	2.82	13100	83.90
1	Tower head section brace		10.48	0.99	0.49	2900	5.08
1	Tower head section lower part		3.33	3.79	3.53	23700	44.55
1	Connecting block with ladder		4.98	2.54	2.80	7300	35.41
1	Driver's cab suspension		3.58	2.23	0.56	560	4.47
1	Driver's cab		2.26	1.45	2.30	940	7.54
1	Counterjib with struts and platforms		9.81	2.50	1.25	8500	30.66
1	Machine platform with luffing gear, 2nd brake		2.03	2.23	2.50	6200	11.32
1	Machine platform with hoist gear, 2nd brake (incl. 1000 m Ø 32 mm hoisting rope = 5 tons)		4.85	2.60	2.45	17500	30.89
1	Jib element 1 (without pedestals)		11.89	2.55	2.51	4400	76.10
1	Jib element 2		10.59	2.03	2.50	3100	53.74
1	Jib element 3		10.59	2.03	2.50	3200	53.74
1	Jib element 4		5.41	2.03	2.50	1600	27.46
1	Jib element 5		5.41	2.03	2.50	1600	27.46

## 7 Package list

Quantity	Description	Package	L [m]	W [m]	H [m]	Weight [kg]	Volume [m³]
1	Jib element 6		10.59	2.03	2.50	2600	53.74
2	Jib element 7		10.59	2.03	2.50	2500	53.74
1	Jib element 8 (without platforms)		11.13	2.03	2.52	3800	56.94
1	Hook block 1 fall operation		1.08	0.34	1.99	600	0.73
	Hook block (2 fall operation)		1.20	0.40	1.99	1000	0.96
	Hook block 3 fall operation		1.20	0.50	1.99	1500	1.20
1	Stay rods for 80 m operating radius		10.58	0.74	0.27	3200	2.11
	Standard railings		2.60	1.10	0.65	300	1.86
1	Box (small parts)		0.63	0.50	0.38	100	1.12

## 8 Assembly weights

### 8.1 Counterweight blocks

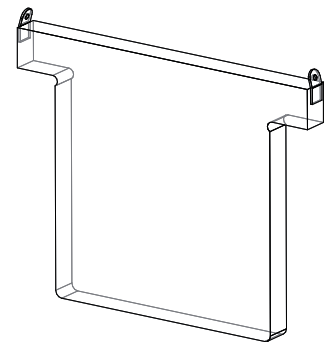
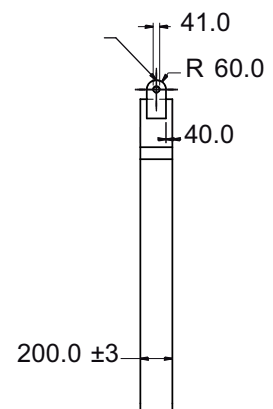
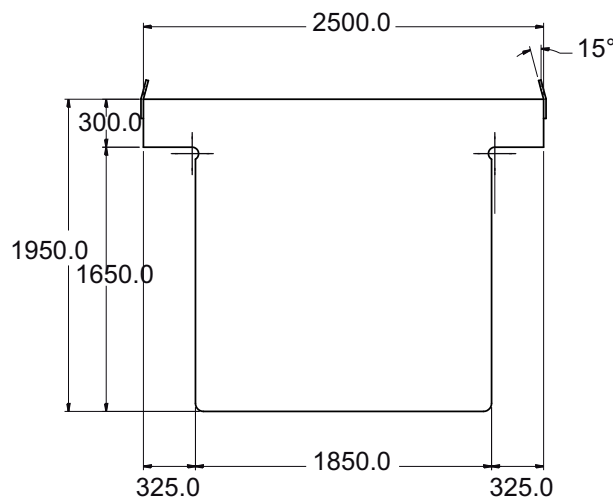


## **NOTICE**

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

## 8 Assembly weights

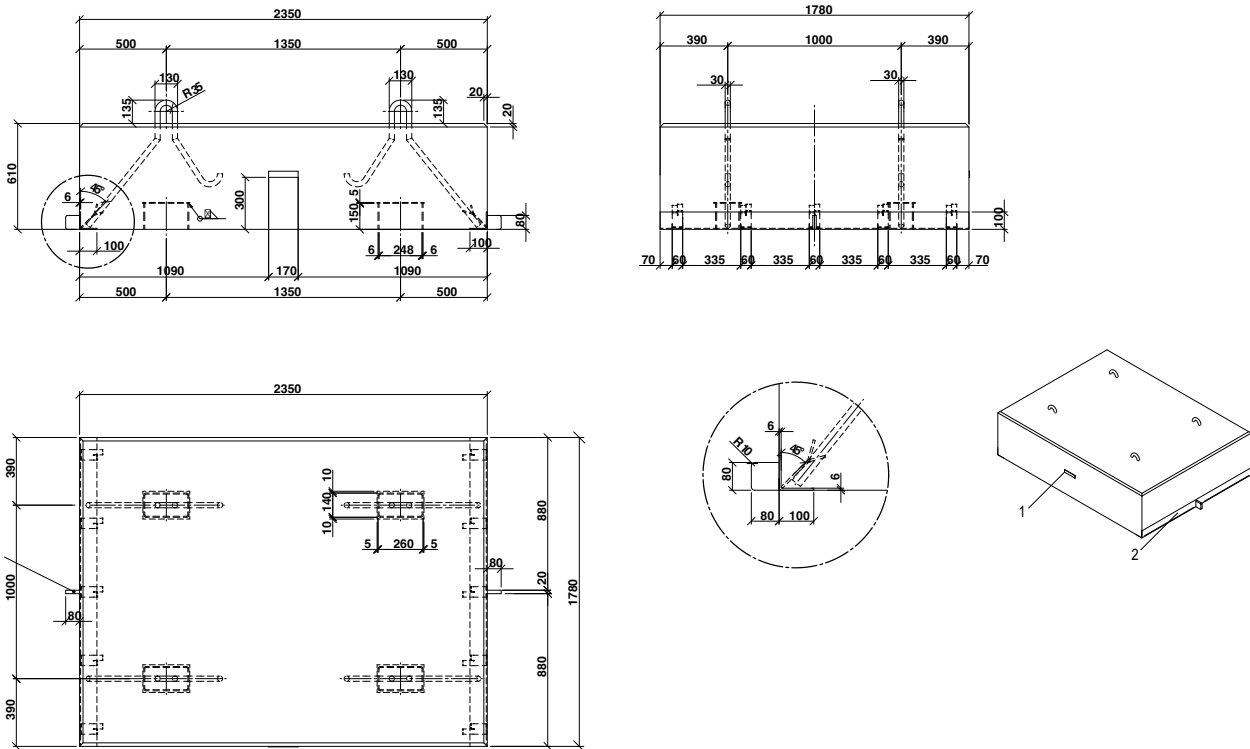
### 8.1.1 Counterweight block, 5.97 t



Data counterweight block 5.97 t

Item	Data
Material	Material quality S235JR, max. carbon content 0.25%
Max. permitted weight tolerance	+/- 3 %
Order number	30046411

### 8.1.2 Counterweight block, 6.0 t

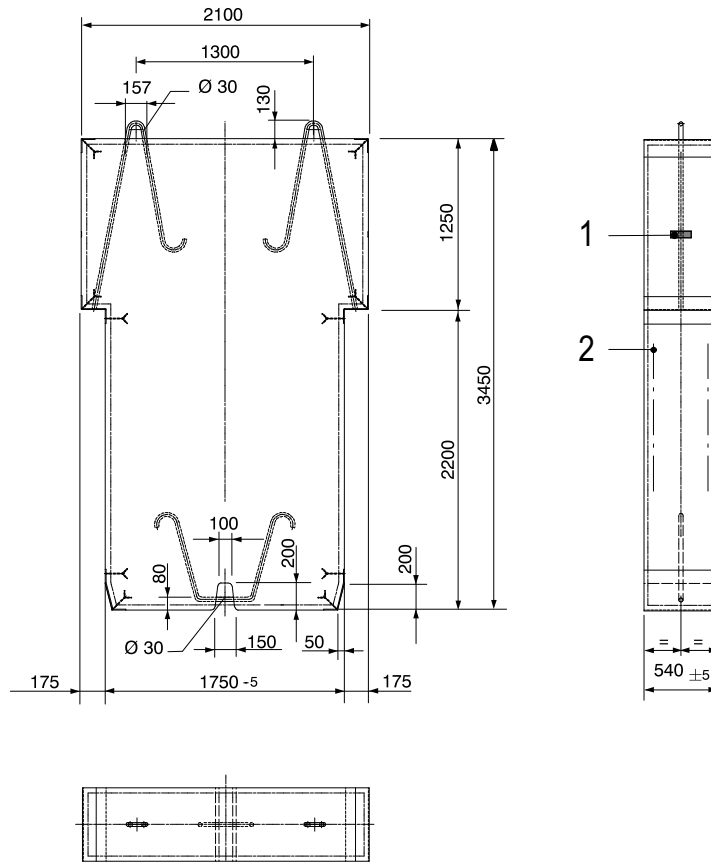


Data counterweight block 6.0 t

Item	Data
Material	Concrete, min. C 20/25
Max. permitted weight tolerance	+/- 3 %
Order number	30047367
1	Component identifier
2	Border protection

## 8 Assembly weights

### 8.1.3 Counterweight block, 8.0 t



Data counterweight block 8.0 t

Item	Data
Material	Concrete, min. C 20/25
Max. permitted weight tolerance	+/- 3 %
Order number	30043944
1	Component identifier
2	Structural steel reinforcement

## 8.2 Total weight jib assembly

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

<b>Jib length [m]</b>	<b>Weight [kg] WOLFF 1250 B</b>
80.0	29800
75.0	27900
70.0	26700
65.0	24800
60.0	23600
55.0	21700
50.0	20400
45.0	18500
40.0	16600

## 8 Assembly weights

### 8.3 Assembly weight slewing section

Module	Crane parts	Weight [kg]	
Tower head section upper part			15940
	▪ Tower head section upper part (including struts, platforms and standard railings)	15420	
	▪ Pulley block	350	
	▪ Shock absorber	170	
Driver's cab with driver's cab suspension			1500
	▪ Driver's cab suspension	560	
	▪ Driver's cab	940	
Tower head section lower part			23700
	▪ Lower part of tower head section	14015	
	▪ Slewing frame + ball race bearing	9670	
Connecting block			7300
Counterjib (including struts, pedestals and standard railing)			8780
Machine platform hoisting gear (1000 m rope = 5 to)			17500
Machine platform luffing gear			6200



#### 8.4 Assembly weight cross frame elements

Cross frame element KRE 4120 complete			60 480
	▪ Cross frame base	19 220	
	▪ Mast base	18 290	
	▪ Hinged sections with corner plates	14 080	
	▪ Struts	8 040	
	▪ Assembly platform, ladder, and small parts	850	

## 8 Assembly weights

### 8.5 Assembly weight undercarriage

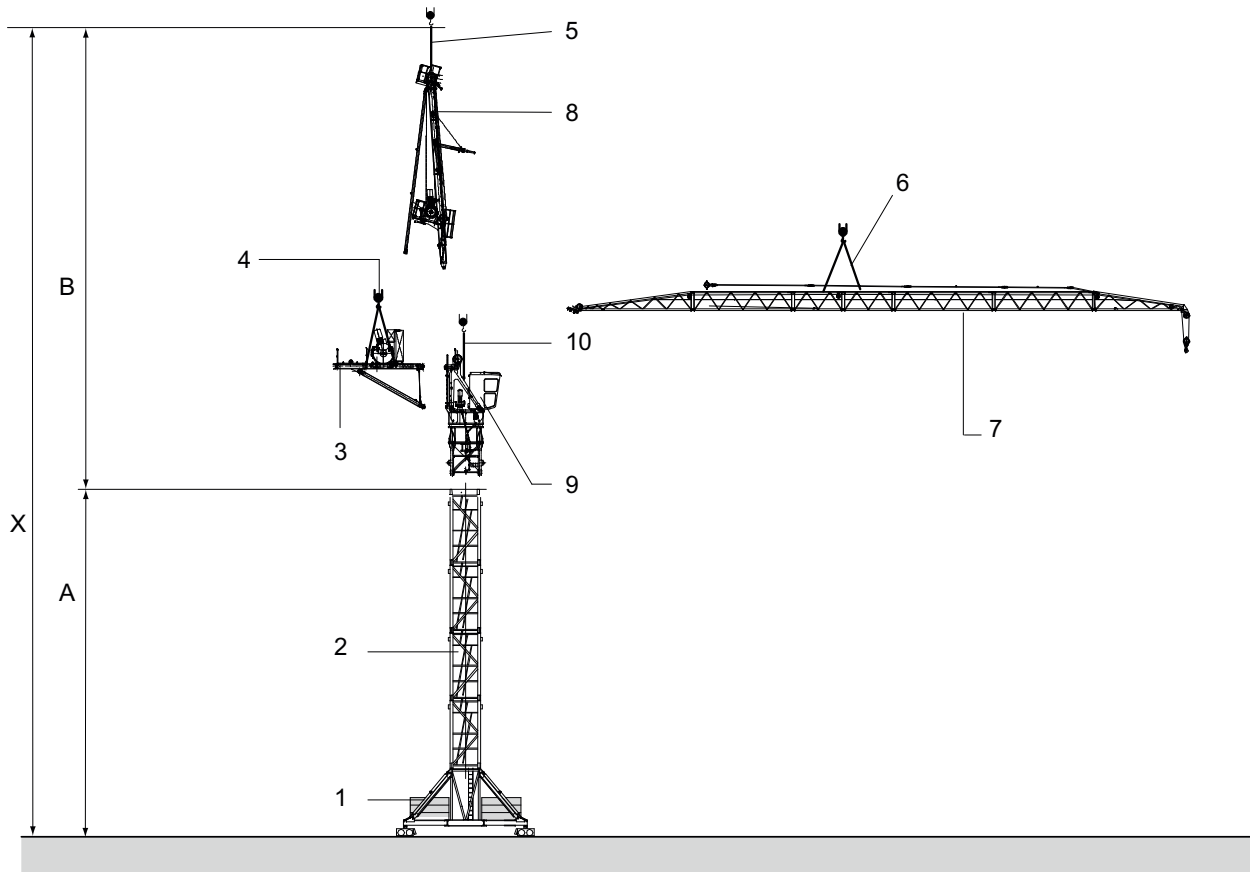
Module	Crane part	Weight [kg]	
Undercarriage UW 4120, complete			74 900
	▪ Undercarriage base with subframe	34 500	
	▪ Mast base	18 290	
	▪ Hinged sections	11 800	
	▪ Struts	8 040	
	▪ Assembly platform, rope drum bracket, ladder, and small parts	2 270	

## 8.6 Required hook height for mobile cranes

For information about the height of the WOLFF slewing tower crane, refer to Tower combinations [13].

**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 33 m (B).



Exemplary illustration

[A]	Height of the WOLFF slewing tower crane	[B]	Clearance 33 m
[X]	Hook height above ground required for the mobile crane		
1	Undercarriage	6	4-fall attachment (4 m with shackle)
2	Tower element	7	Jib, complete
3	Counterjib, complete	8	Tower head section, complete
4	Four-point lifting tackle (with shackle)	9	Tower head section lower part
5	Two-point lifting tackle (3 m with shackle)	10	4-fall attachment (4 m with shackle)


**(see also):**

- Tower combinations [13]

## 9 Assembly diagrams

## 9 Assembly diagrams

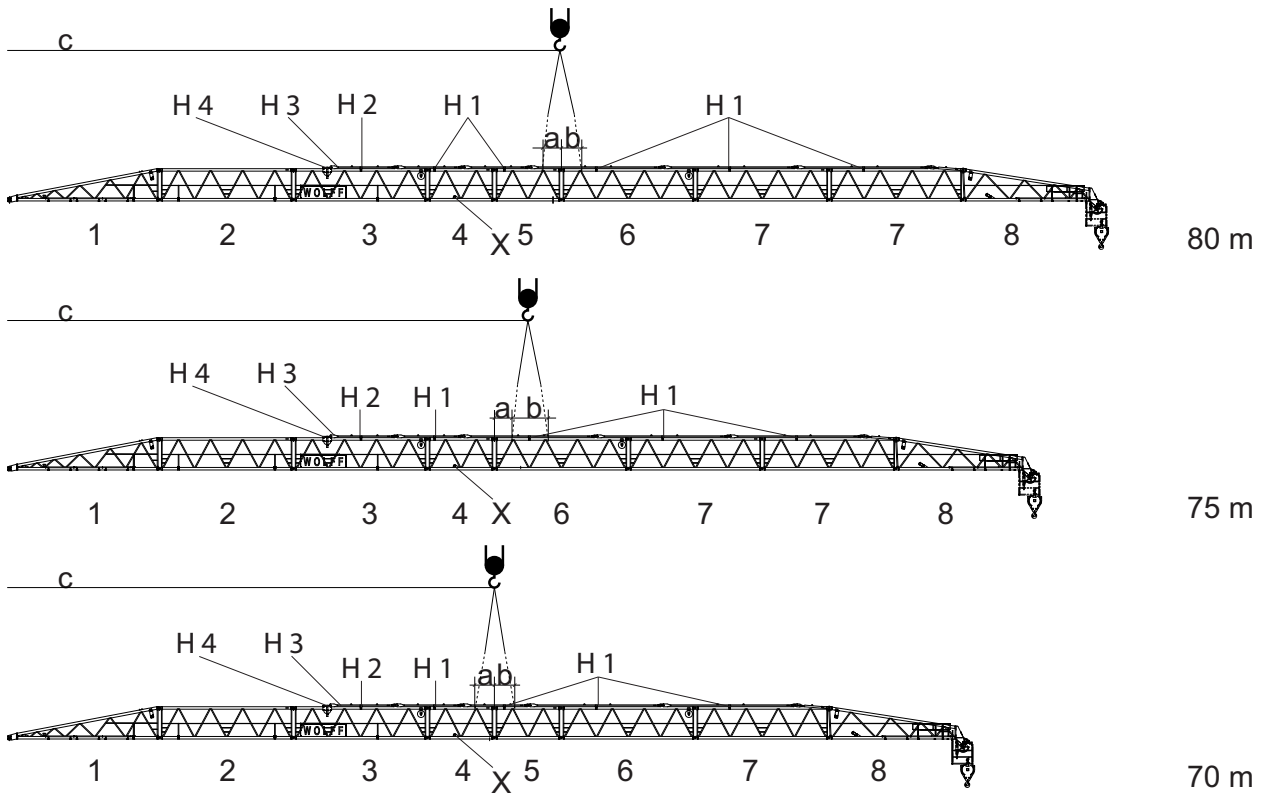
### 9.1 Jib attachment diagram

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

#### Length of jib elements

Item	Length [m]
Jib element 1	11.60
Jib element 2, 3, 6, 7	10.35
Jib element 4, 5	5.18
Jib element 8	10.35

## 9.1.1 Jib attachment diagram 80 m to 70 m

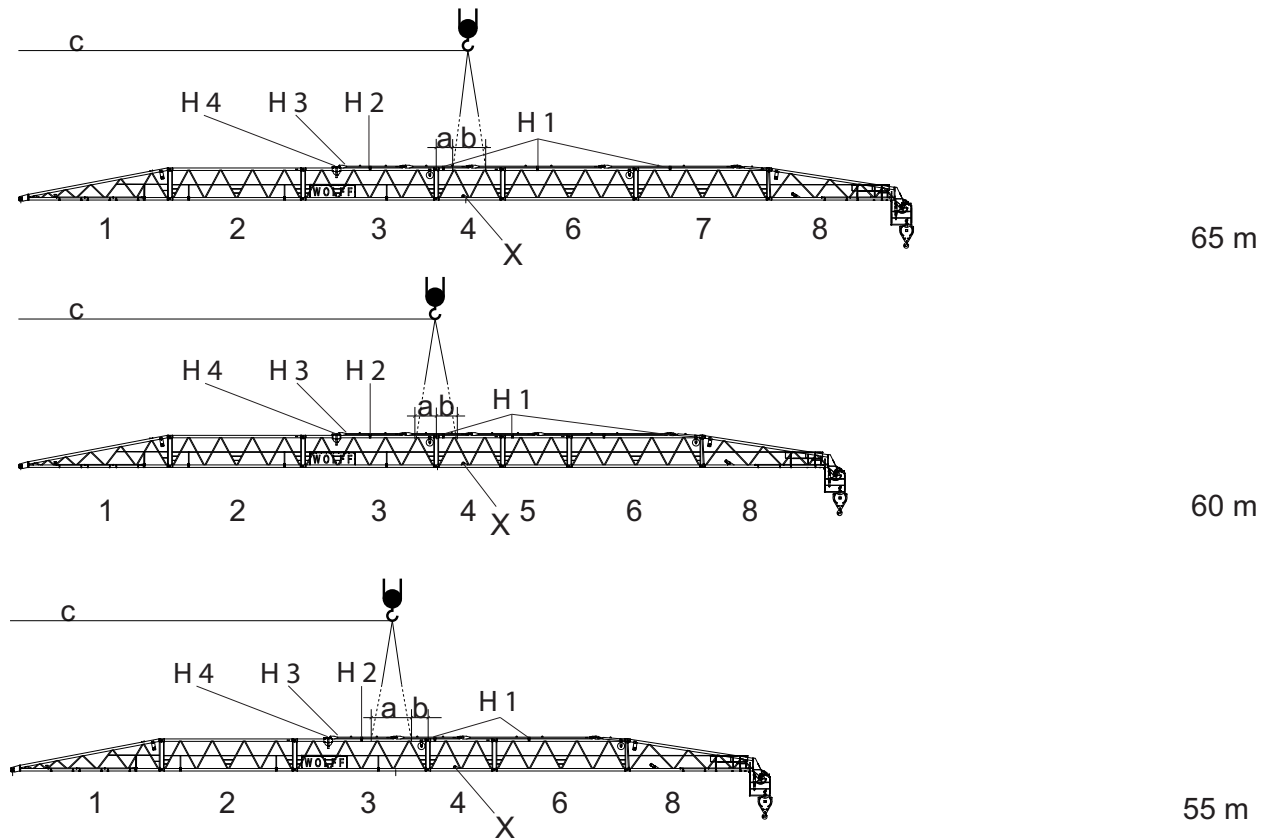


Data	Jib length [m]		
	80	75	70
a [m]	1.55	1.30	1.55
b [m]	1.60	2.78	1.55
c [m]	42.70	40.20	37.50
Weight [kg]	29800	27900	26700

Caption			
H 1 – H 3	Support blocks for jib brace	X	Fastening assembly brace ropes
H 4	Support block for pulley block		

## 9 Assembly diagrams

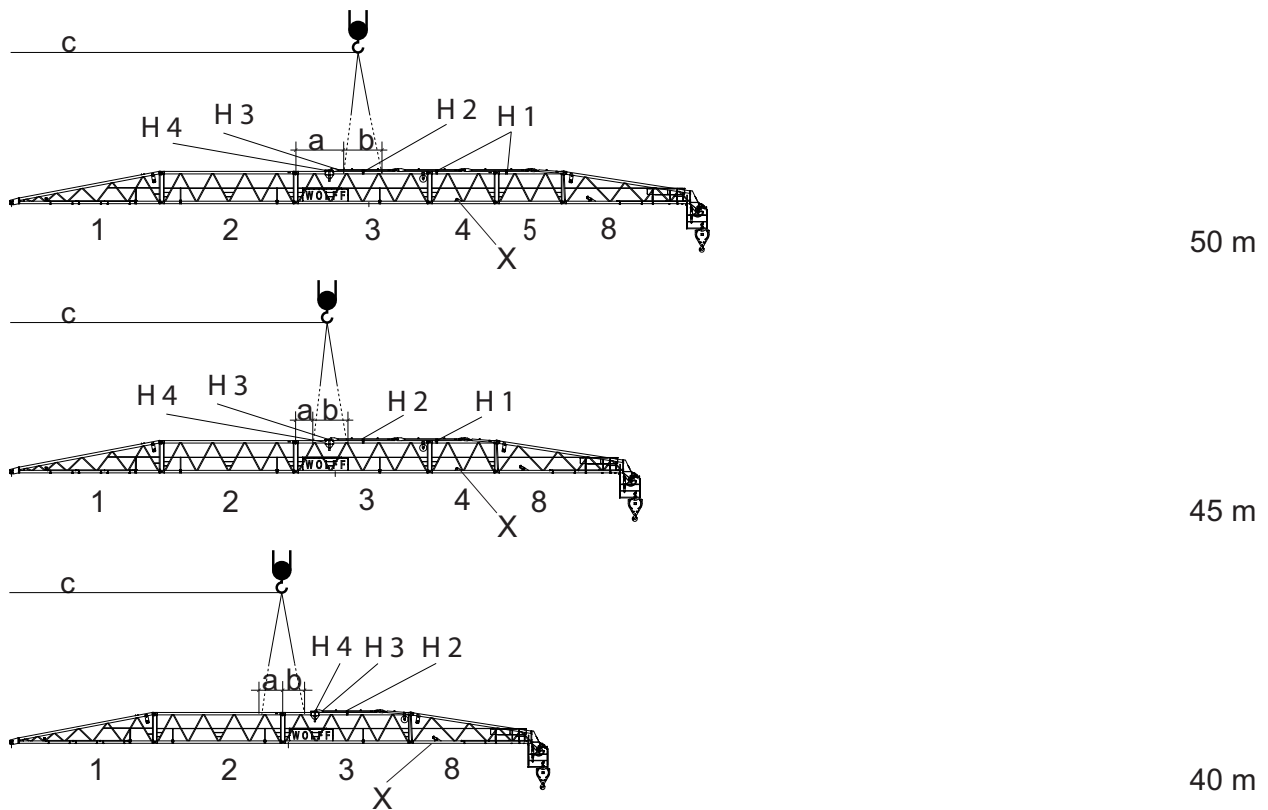
### 9.1.2 Jib attachment diagram 65 m to 55 m



Data	Jib length [m]		
	65	60	55
a [m]	1.25	1.60	2.78
b [m]	2.67	1.55	1.30
c [m]	34.90	32.30	29.60
Weight [kg]	24800	23600	21700

Caption			
H 1 – H 3	Support block for jib brace	X	Fastening assembly brace ropes
H 4	Support block for pulley block		

## 9.1.3 Jib attachment diagram 50 m to 40 m

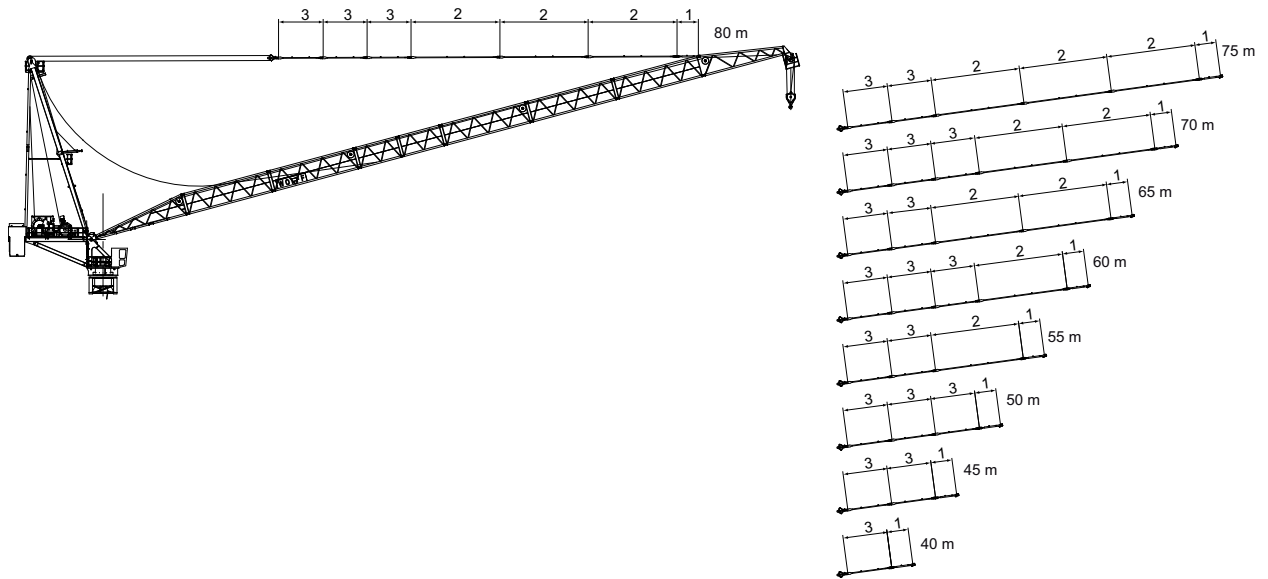


Data	Jib length [m]		
	50	45	40
a [m]	3.78	1.30	1.60
b [m]	2.78	2.78	1.60
c [m]	27.10	24.60	22.00
Weight [kg]	20400	18500	16600

Caption			
H 1 – H 3	Support block for jib brace	X	Fastening assembly brace ropes
H 4	Support block for pulley block		

## 9 Assembly diagrams

### 9.2 Jib brace diagram



Brace table

Jib length	Lengths [m]									Total weight [t]
	Pulley block	Stay no. 3	Stay no. 3	Stay no. 3	Stay no. 2	Stay no. 2	Stay no. 2	Stay no. 1	Total length	
Jib – 80 m	0.88	5.15	5.15	5.15	10.30	10.30	10.30	2.48	49.71	3.2
Jib – 75 m	0.88	5.15	5.15		10.30	10.30	10.30	2.48	44.56	2.8
Jib – 70 m	0.88	5.15	5.15	5.15		10.30	10.30	2.48	39.41	2.6
Jib – 65 m	0.88	5.15	5.15			10.30	10.30	2.48	34.26	2.2
Jib – 60 m	0.88	5.15	5.15	5.15			10.30	2.48	29.11	1.9
Jib – 55 m	0.88	5.15	5.15				10.30	2.48	23.96	1.6
Jib – 50 m	0.88	5.15	5.15	5.15				2.48	18.81	1.3
Jib – 45 m	0.88	5.15	5.15					2.48	13.66	1.0
Jib – 40 m	0.88	5.15						2.48	8.51	0.6



Bolt table

Jib length	Brace	Bolts			Spring retainers	
		Quantity	Dimension [mm]	Item no.	Dimension [mm]	Item no.
Jibs - all	AL 8	1	Ø115/100x350	30047094	10/60-80, galvanized, yellow	10022204
Jib – 80 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	3	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	3	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 75 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	3	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	2	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 70 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	2	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	3	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 65 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	2	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	2	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 60 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	3	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 180' 5-1/2" (55 m)	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	2	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 50 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	-	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	3	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 45 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204

## 9 Assembly diagrams

Jib length	Brace	Bolts			Spring retainers	
		Quantity	Dimension [mm]	Item no.	Dimension [mm]	Item no.
Jib – 45 m	2	-	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	2	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
Jib – 40 m	1	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	2	-	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204
	3	1	Ø 90/80x220	30047082	10/60-80, galvanized, yellow	10022204

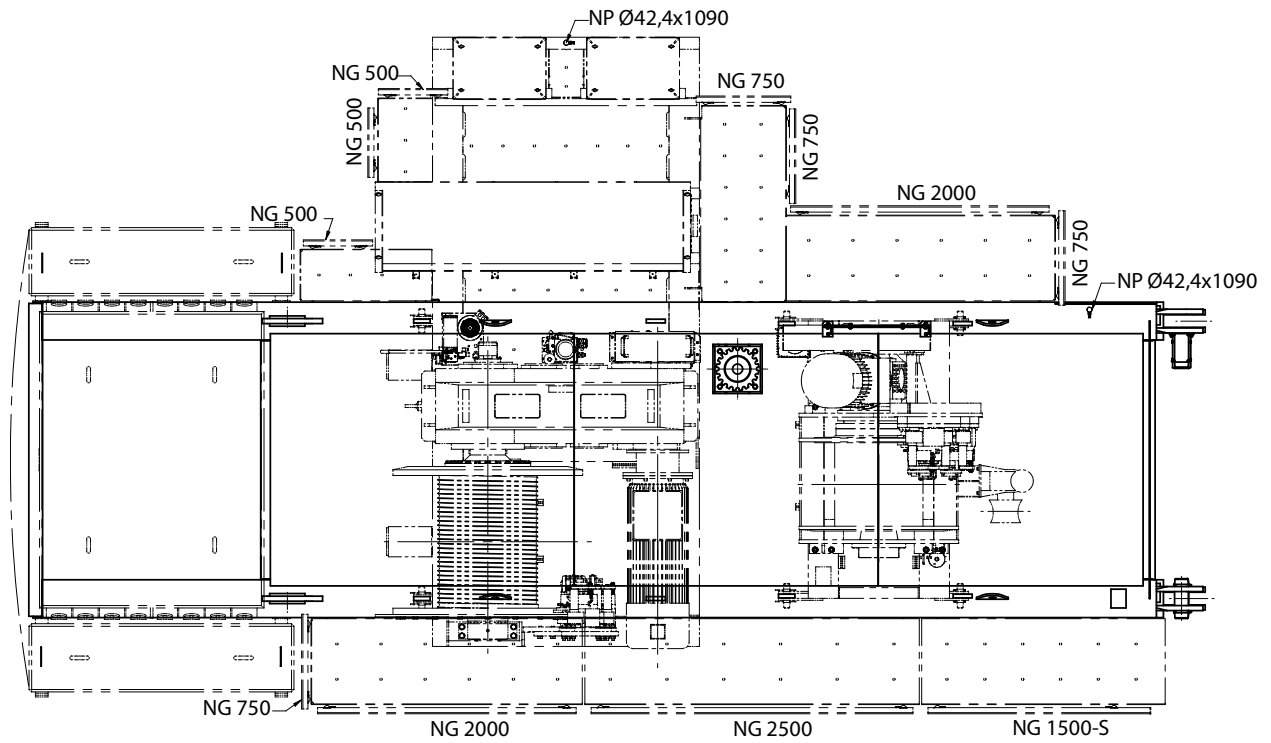
## 9.3 Arrangement of standard railings

### 9.3.1 Standard railings (NG) and accessories

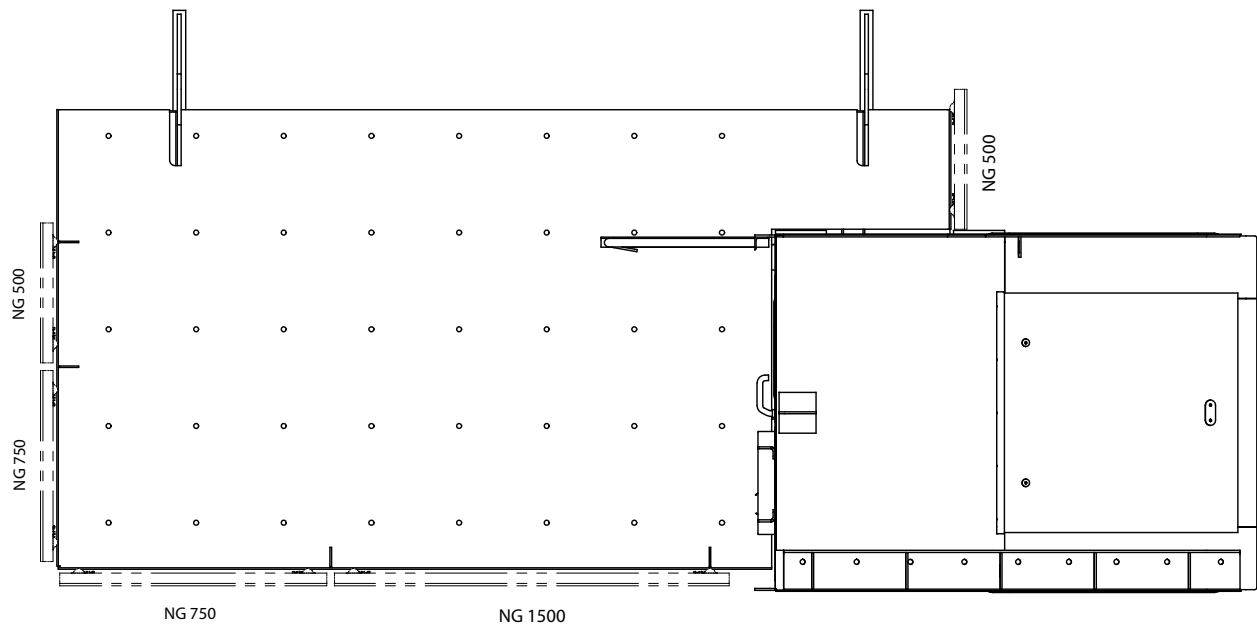
<b>Quantity</b>	<b>Standard railings (NG)</b>
4	Standard post (NP)
9	Standard railing 500
11	Standard railing 750
2	Standard railing 1500
1	Standard railing 1500-S
2	Standard railing 2000
3	Standard railing 2500

## 9 Assembly diagrams

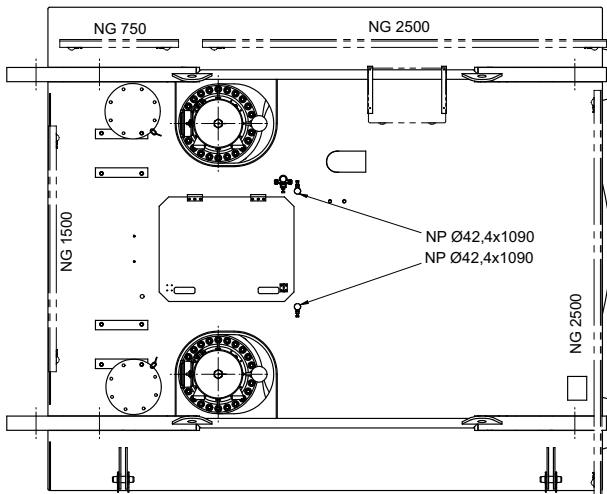
### 9.3.2 Arrangement of standard railings



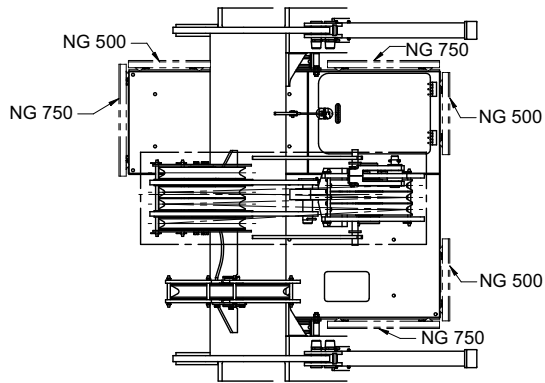
#### Arrangement of standard railings, counterjib



#### Arrangement of standard railings, driver's cab

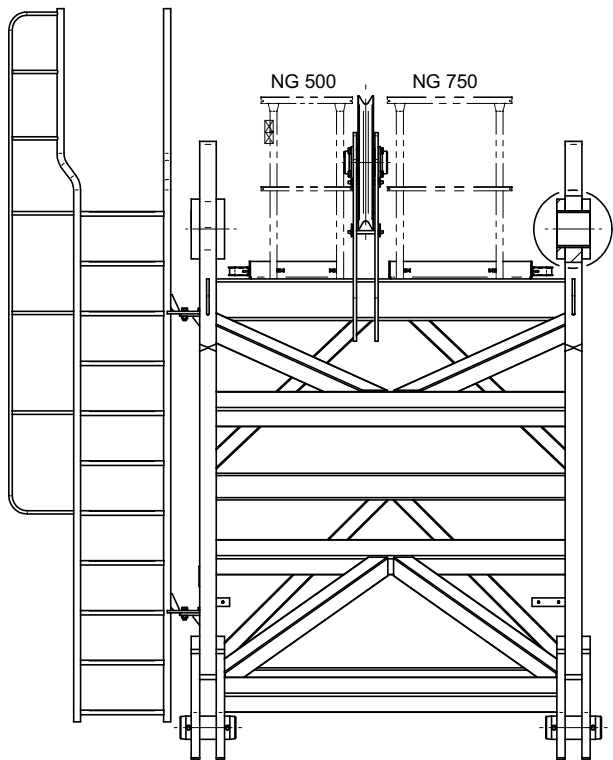


Arrangement of standard railings, slewing frame



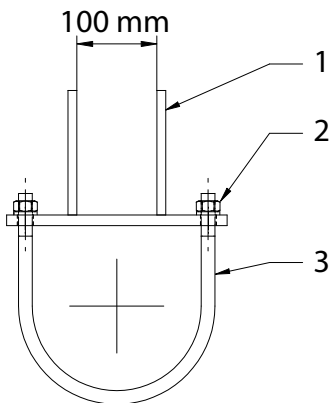
Arrangement of standard railings, tower head section

## 9 Assembly diagrams



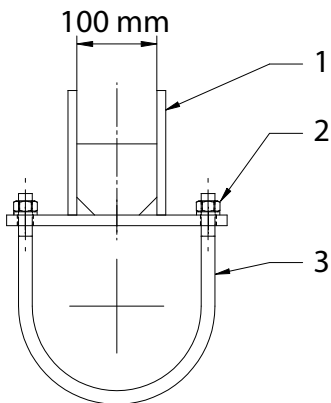
Arrangement of standard railings, connecting block

## 9.4 Support blocks for brace



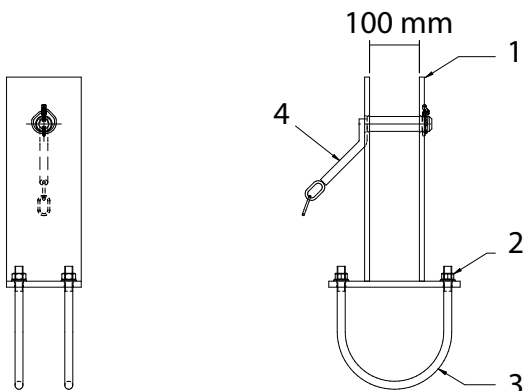
Support block H 1 for jib brace

1	Support block	3	Bracket
2	Nut and washer		



Support block H 2 for jib brace

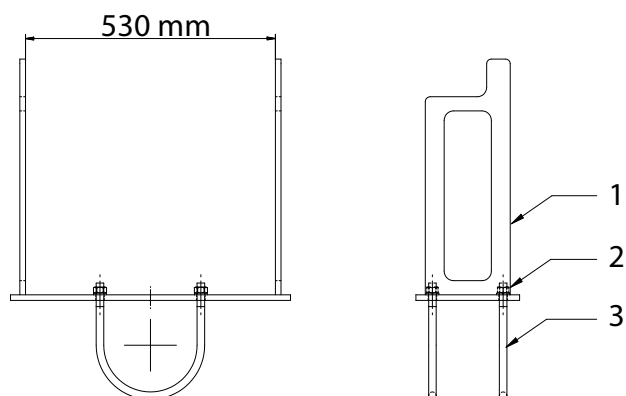
1	Support block	3	Bracket
2	Nut and washer		



Support block H 3 for jib brace

1	Support block	3	Bracket
2	Nut and washer	4	Bolts with handle and chain

## 9 Assembly diagrams



Support block H 4 for pulley block





1	Support block	3	Bracket
2	Nut and washer		



## 10 Suitable climbing devices



This section contains information on

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

	NOTICE
	<p>Details on the climbing device</p> <p>Always refer to the details in the documentation of the climbing device.</p>
	NOTICE
	<p>The operating radius specified is measured from the tower center and is to be considered a reference value. Exact balancing can be achieved by changing the operating radius with the tower elements or loads specified in the table.</p>
	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 at hook heights in height of the bottom edge of the tower head section lower part (hook height = tower height).</p>
	NOTICE
	<p>If feasible, preferably operate your climbing device without balancing weight.</p>

## 10 Suitable climbing devices

### 10.1 Outer climbing devices

	<p style="text-align: center;"><b>! DANGER</b></p> <p>Climbing device attached to the lower part of the tower head section lower part.</p> <p>Increased wind surface. The slewing tower crane may overturn.</p> <ul style="list-style-type: none"><li>▶ Dismantle the climbing device after the climbing procedure is finished or lower the climbing device down on the ground or lower the climbing device down to the uppermost tower brace.</li></ul>
	<p style="text-align: center;"><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>

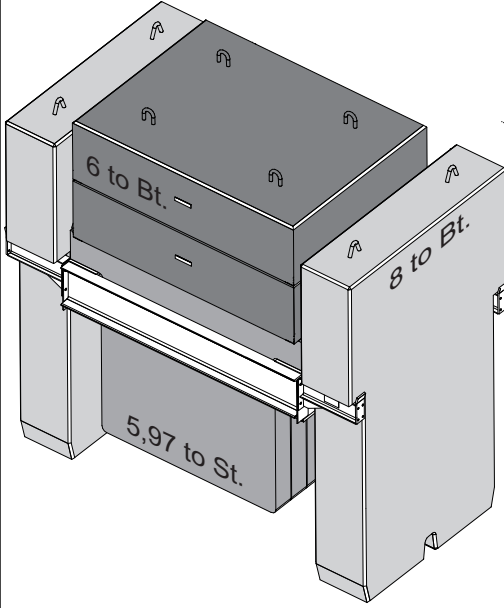
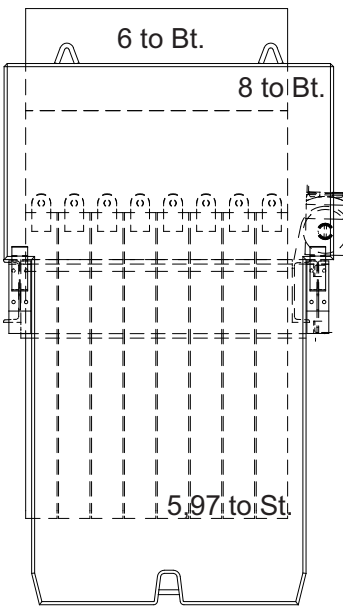
## 10.1.1 Outer climbing unit KWH 33

Climbing radius for the balancing weights

1250 B	Jib length [m]								
	80	75	70	65	60	55	50	45	40
no weight	64.9	68.0	-	-	-	-	-	-	-
Weight = 5.00 t	-	-	50.7	52.6	53.6	-	-	-	-
TV 33 = 9.45 t	-	-	-	-	-	44.6	45.2	-	-
Weight = 15.00 t	-	-	-	-	-	-	-	38.2	-
Weight = 17.00 t	-	-	-	-	-	-	-	-	36.6

## 11 Arrangement of counterweight blocks

### 11 Arrangement of counterweight blocks

Jib length [m]	80	75	70	65	60	55	50	45	40	
Total weight 75.76 t										
										8 x 5.97 tons suspended steel weight
										2 x 8 tons suspended concrete weight
										2 x 6 tons lying concrete weight



**WOLFFKRAN Group**

*Headquarter international:*

**WOLFFKRAN AG**

Baarermattstraße 6

CH-6300 Zug

Switzerland

Phone +41 41 766 85 00

Fax +41 41 766 85 99

[info@wolffkran.com](mailto:info@wolffkran.com)

*Manufacturing:*

**WOLFFKRAN GmbH**

Austraße 72

D-74076 Heilbronn

Germany

Phone + 49 7131 9815 0

Fax + 49 7131 9815 355

[info@wolffkran.de](mailto:info@wolffkran.de)

**WOLFFKRAN Werk Brandenburg GmbH**

Frederik-Ipsen-Straße 5

D-15926 Luckau OT Altno

Germany

Phone + 49 35456 674 0

Fax + 49 35456 674 200

[info@wolffkran.de](mailto:info@wolffkran.de)