

max. height under hook  
see tower combination

2.2.1.1

Load capacity table

hook block with pulley block

radius [m]		15	20	25	27,5	30	32,5	35	37,5	40	42,5	45	47,5	50	
jib length [m]	50 2,2-10,6	4,1	3,0	2,3	2,0	1,8	1,6	1,5	1,4	1,3	1,2	1,1	1,0	0,9	load capacity [t]
	47,5 2,2-12,3	4,8	3,5	2,7	2,4	2,2	2,0	1,8	1,6	1,5	1,4	1,3	1,2		
	45 2,2-15,1	6,0	4,4	3,4	3,1	2,8	2,5	2,3	2,1	2,0	1,8	1,7			
	42,5 2,2-15,6	6,0	4,6	3,6	3,2	2,9	2,6	2,4	2,2	2,0	1,9				
	40 2,2-15,9	6,0	4,7	3,6	3,3	3,0	2,7	2,5	2,3	2,1					
	37,5 2,2-16,1	6,0	4,7	3,7	3,3	3,0	2,7	2,5	2,3						
	35 2,2-16,6	6,0	4,9	3,8	3,4	3,1	2,8	2,6							
	32,5 2,2-17,0	6,0	5,0	3,9	3,5	3,2	2,9								
	30 2,2-17,0	6,0	5,0	3,9	3,5	3,2									
	27,5 2,2-17,3	6,0	5,1	4,0	3,6										
25 2,2-17,3	6,0	5,1	4,0												

radius [m]		15	20	25	27,5	30	32,5	35	37,5	40	42,5	45	47,5	50	
jib length [m]	50 2,2-19,8	3,0	3,0	2,3	2,0	1,8	1,6	1,5	1,4	1,3	1,2	1,1	1,0	0,9	load capacity [t]
	47,5 2,2-22,9	3,0	3,0	2,7	2,4	2,2	2,0	1,8	1,6	1,5	1,4	1,3	1,2		
	45 2,2-28,2	3,0	3,0	3,0	3,0	2,8	2,5	2,3	2,1	2,0	1,8	1,7			
	42,5 2,2-29,1	3,0	3,0	3,0	3,0	2,9	2,6	2,4	2,2	2,0	1,9				
	40 2,2-29,7	3,0	3,0	3,0	3,0	3,0	2,7	2,5	2,3	2,1					
	37,5 2,2-30,0	3,0	3,0	3,0	3,0	3,0	2,7	2,5	2,3						
	35 2,2-31,0	3,0	3,0	3,0	3,0	3,0	2,8	2,6							
	32,5 2,2-31,6	3,0	3,0	3,0	3,0	3,0	2,9								
	30 2,2-30,0	3,0	3,0	3,0	3,0	3,0									
	27,5 2,2-27,5	3,0	3,0	3,0	3,0										
25 2,2-25,0	3,0	3,0	3,0												

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting rope (with 2 fall operation = 1,33 kg per meter hook path, with 4 fall operation = 2,66 kg per meter hook path).

Arrangement of counterweights with hoisting winch

Hw 318 FU

jib [m]					
50	47,5	45	42,5	40	37,5
to tower →	to tower →	to tower →	to tower →	to tower →	to tower →
12,6	12,6	12,6	12,6	10,8	10,8
total weight [t]					
jib [m]					
35	32,5	30	27,5	25	
to tower →	to tower →	to tower →	to tower →	to tower →	
10,8	9,0	9,0	9,0	9,0	
total weight [t]					

2.2.1.2

Load capacity table

hook block without pulley block

radius [m]		15	20	25	27,5	30	32,5	35	37,5	40	42,5	45	47,5	50	
jib length [m]	50 2,2-20,4	3,0	3,0	2,4	2,1	1,9	1,7	1,6	1,5	1,3	1,2	1,2	1,1	1,0	load capacity [t]
	47,5 2,2-23,6	3,0	3,0	2,8	2,5	2,3	2,1	1,9	1,7	1,6	1,5	1,4	1,3		
	45 2,2-29,0	3,0	3,0	3,0	3,0	2,9	2,6	2,4	2,2	2,1	1,9	1,8			
	42,5 2,2-29,9	3,0	3,0	3,0	3,0	3,0	2,7	2,5	2,3	2,1	2,0				
	40 2,2-30,5	3,0	3,0	3,0	3,0	3,0	2,8	2,6	2,4	2,2					
	37,5 2,2-30,8	3,0	3,0	3,0	3,0	3,0	2,8	2,6	2,4						
	35 2,2-31,9	3,0	3,0	3,0	3,0	3,0	2,9	2,7							
	32,5 2,2-32,5	3,0	3,0	3,0	3,0	3,0	3,0	3,0							
	30 2,2-30,0	3,0	3,0	3,0	3,0	3,0	3,0								
	27,5 2,2-27,5	3,0	3,0	3,0	3,0	3,0									
25 2,2-25,0	3,0	3,0	3,0												

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting rope (with 2 fall operation = 1,33 kg per meter hook path)

Arrangement of counterweights with hoisting winch

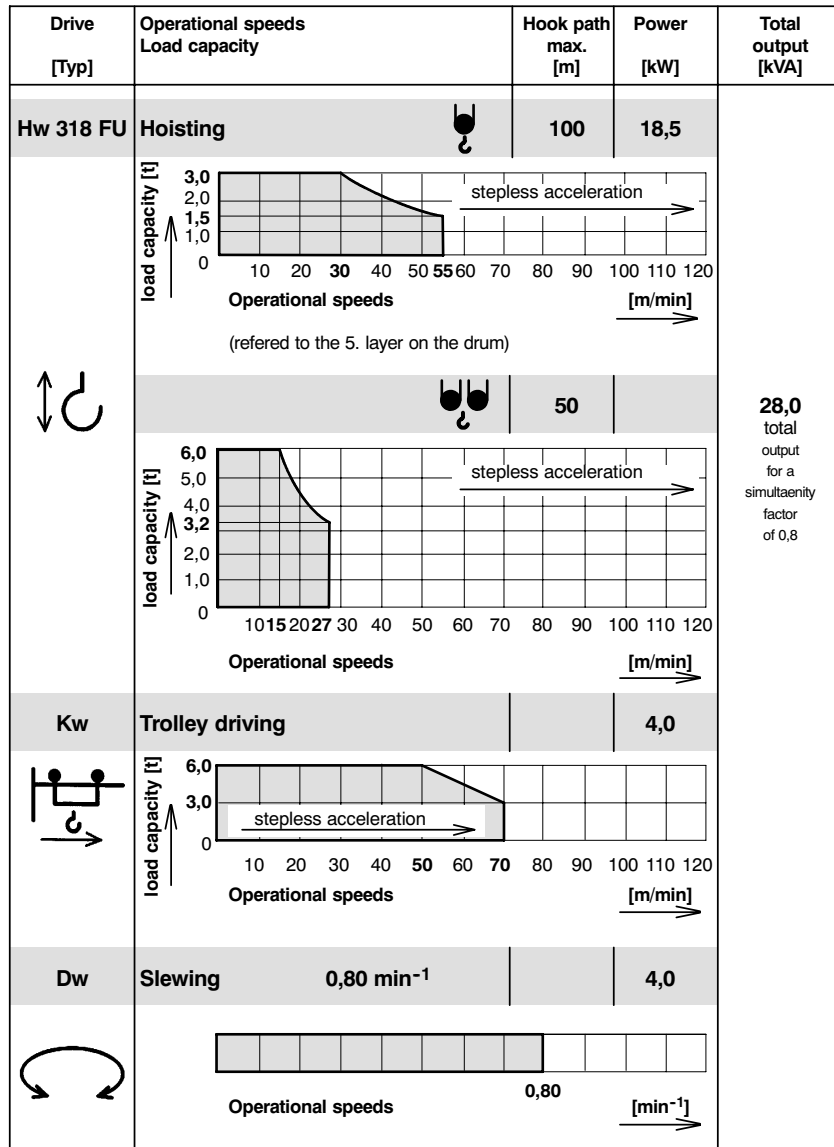
Hw 318 FU

jib [m]					
50	47,5	45	42,5	40	37,5
to tower →	to tower →	to tower →	to tower →	to tower →	to tower →
12,6	12,6	12,6	12,6	10,8	10,8
total weight [t]					
jib [m]					
35	32,5	30	27,5	25	
to tower →	to tower →	to tower →	to tower →	to tower →	
10,8	9,0	9,0	9,0	9,0	
total weight [t]					

2.2.2.1

Operational speeds

400 V, 50 Hz



2.2.3.1

Load capacity table [ kg ] for operation in 4 falls

hook block with pulley block

Radius [m]	Jib length [m]														
	25	27,5	30	32,5	35	37,5	40	42,5	45	47,5	50				
10,0	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000				
11,0	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	5790				
12,0	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	5270				
13,0	6000	6000	6000	6000	6000	6000	6000	6000	6000	5660	4830				
14,0	6000	6000	6000	6000	6000	6000	6000	6000	6000	5220	4450				
15,0	6000	6000	6000	6000	6000	6000	6000	6000	6000	4840	4120				
16,0	6000	6000	6000	6000	6000	6000	5970	5840	5650	4510	3830				
17,0	6000	6000	6000	5980	5860	5650	5590	5470	5290	4210	3580				
18,0	5740	5750	5650	5620	5510	5310	5250	5140	4970	3950	3350				
19,0	5410	5430	5330	5300	5190	5010	4950	4840	4680	3720	3150				
20,0	5120	5130	5040	5010	4910	4730	4680	4580	4430	3510	2970				
21,0	4850	4860	4780	4750	4650	4480	4430	4340	4190	3320	2810				
22,0	4610	4620	4540	4510	4420	4260	4210	4120	3980	3150	2660				
23,0	4390	4400	4320	4300	4210	4050	4010	3920	3790	2990	2520				
24,0	4190	4200	4120	4100	4010	3860	3820	3730	3610	2850	2400				
25,0	4000	4010	3940	3910	3830	3690	3650	3570	3440	2710	2280				
26,0		3840	3770	3750	3670	3530	3490	3410	3290	2590	2170				
27,0		3680	3610	3590	3510	3380	3340	3270	3150	2480	2080				
27,5		3600	3530	3510	3440	3310	3270	3200	3090	2420	2030				
28,0			3460	3440	3370	3240	3210	3130	3020	2370	1980				
29,0			3330	3310	3240	3110	3080	3010	2900	2270	1900				
30,0			3200	3180	3110	3000	2960	2890	2790	2180	1820				
31,0				3060	3000	2880	2850	2780	2680	2090	1750				
32,0				2950	2890	2780	2750	2680	2590	2010	1680				
32,5				2900	2840	2730	2700	2630	2540	1980	1640				
33,0					2790	2680	2650	2590	2490	1940	1610				
34,0					2690	2590	2560	2500	2410	1870	1550				
35,0					2600	2500	2470	2410	2320	1800	1490				
36,0						2420	2390	2330	2250	1740	1440				
37,0							2340	2310	2250	2170	1680	1380			
37,5							2300	2270	2220	2140	1650	1360			
38,0								2240	2180	2100	1620	1340			
39,0								2170	2110	2040	1570	1290			
40,0									2100	2050	1970	1520	1250		
41,0										1990	1910	1470	1200		
42,0											1930	1860	1420	1160	
42,5												1900	1830	1400	1140
43,0													1800	1380	1120



2.2.3.3

Load capacity table [ kg ] for operation in 2 falls

hook block without pulley block

Radius [m]	Jib length [m]										
	25	27,5	30	32,5	35	37,5	40	42,5	45	47,5	50
18,0	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
19,0	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
20,0	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
21,0	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2910
22,0	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2760
23,0	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2620
24,0	3000	3000	3000	3000	3000	3000	3000	3000	3000	2950	2500
<b>25,0</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>2810</b>	<b>2380</b>
26,0		3000	3000	3000	3000	3000	3000	3000	3000	2690	2270
27,0		3000	3000	3000	3000	3000	3000	3000	3000	2580	2180
<b>27,5</b>		<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>2520</b>	<b>2130</b>
28,0			3000	3000	3000	3000	3000	3000	3000	2470	2080
29,0			3000	3000	3000	3000	3000	3000	3000	2370	2000
<b>30,0</b>			<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>3000</b>	<b>2990</b>	<b>2890</b>	<b>2280</b>	<b>1902</b>
31,0				3000	3000	2980	2950	2880	2780	2190	1850
32,0				3000	2990	2880	2850	2780	2690	2110	1780
<b>32,5</b>				<b>3000</b>	<b>2940</b>	<b>2830</b>	<b>2800</b>	<b>2730</b>	<b>2640</b>	<b>2080</b>	<b>1740</b>
33,0					2890	2780	2750	2690	2590	2040	1710
34,0					2790	2690	2660	2600	2510	1970	1650
<b>35,0</b>					<b>2700</b>	<b>2600</b>	<b>2570</b>	<b>2510</b>	<b>2420</b>	<b>1900</b>	<b>1590</b>
36,0						2520	2490	2430	2350	1840	1540
37,0						2440	2410	2350	2270	1780	1480
<b>37,5</b>						<b>2400</b>	<b>2370</b>	<b>2320</b>	<b>2240</b>	<b>1750</b>	<b>1460</b>
38,0							2340	2280	2200	1720	1440
39,0							2270	2210	2140	1670	1390
<b>40,0</b>							<b>2200</b>	<b>2150</b>	<b>2070</b>	<b>1620</b>	<b>1350</b>
41,0								2090	2010	1570	1300
42,0								2030	1960	1520	1260
<b>42,5</b>								<b>2000</b>	<b>1930</b>	<b>1500</b>	<b>1240</b>
43,0									1900	1480	1220
44,0									1850	1430	1190
<b>45,0</b>									<b>1800</b>	<b>1390</b>	<b>1150</b>
46,0										1350	1120
47,0										1320	1090
<b>47,5</b>										<b>1300</b>	<b>1070</b>
48,0											1060
49,0											1030
<b>50,0</b>											<b>1000</b>

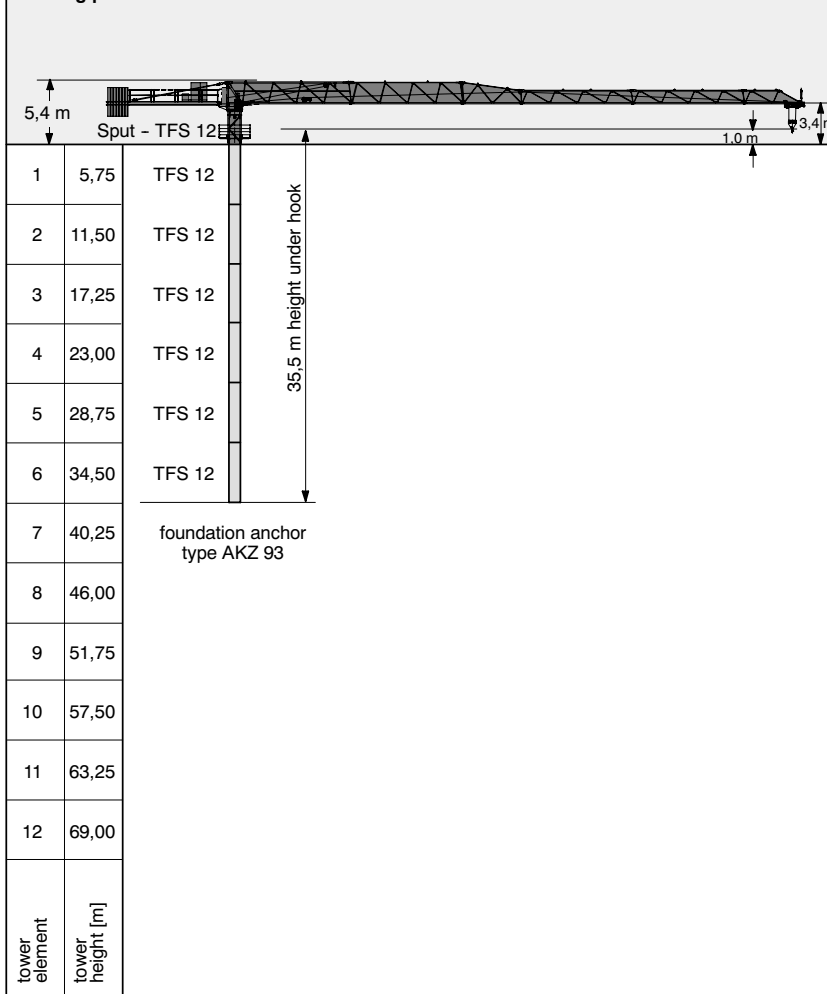
The load capacities refer to a hook path of 42 m

2.2.6.1

Tower configurations

for a free standing stationary slewing tower crane without climbing drive on a concrete foundation

Slewing part:



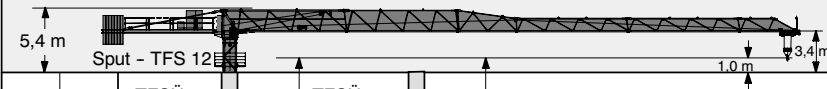
For data regarding foundation anchors see section 12. The tower configurations shown here are recommended for economic crane installation.

Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.

2.2.6.2 Tower configurations

for a free standing stationary slewing tower crane without climbing drive on a concrete foundation

Slewing part:



tower element	tower height [m]	component	height [m]	component	height [m]
1	4,5	TFSÜ 12		TFSÜ 12	
2	9,0	TFS 15	46,0 m height under hook	TFS 15	50,5 m height under hook
3	13,5	TFS 15		TFS 15	
4	18,0	TFS 15		TFS 15	
5	22,5	TFS 15		TFS 15	
6	27,0	TFS 15		TFS 15	
7	31,5	TFS 15		TFS 15	
8	36,0	TFS 15		TFS 15	
9	40,5	TFS 15.4		TFS 15.4	
10	45,0	TFS 15.4	TFS 15.4		
11	49,5	foundation anchor type AKZ 93		UVA 15	
12	54,0			foundation anchor type AKZ 120	
13	58,5				
14	63,0				
15	67,5				
16	72,0				
17	76,5				
18	81,0				

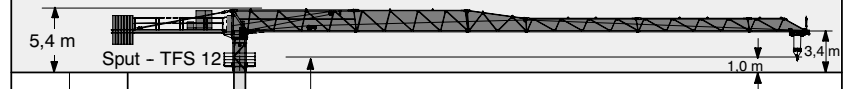
For data regarding foundation anchors see section 12.  
The tower configurations shown here are recommended for economic crane installation.

Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.

2.2.7.1 Tower configurations

for a free standing stationary slewing tower crane without climbing drive on a cross frame

Slewing part:



tower element	tower height [m]	component	height [m]
1	5,75	TFS 12	36,2 m height under hook
2	11,50	TFS 12	
3	17,25	TFS 12	
4	23,00	TFS 12	
5	28,75	TFS 12	
6	34,50	TFS 12	
7	40,25	KR 6 - 40 (4,0mx4,0m)	
8	46,00		
9	51,75		
10	57,50		
11	63,25		
12	69,00		

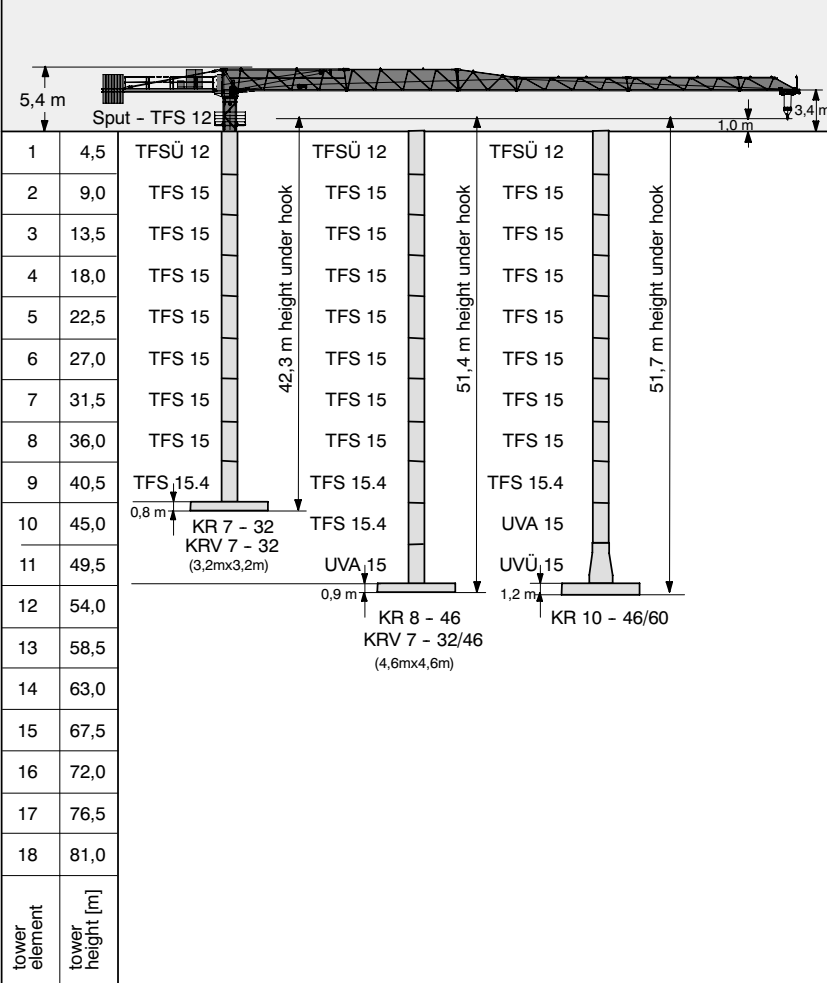
For data regarding cross frames see section 12.  
The tower configurations shown here are recommended for economic crane installation.

Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.

2.2.7.2 Tower configurations

for a free standing stationary slewing tower crane without climbing drive on a cross frame

Slewing part:



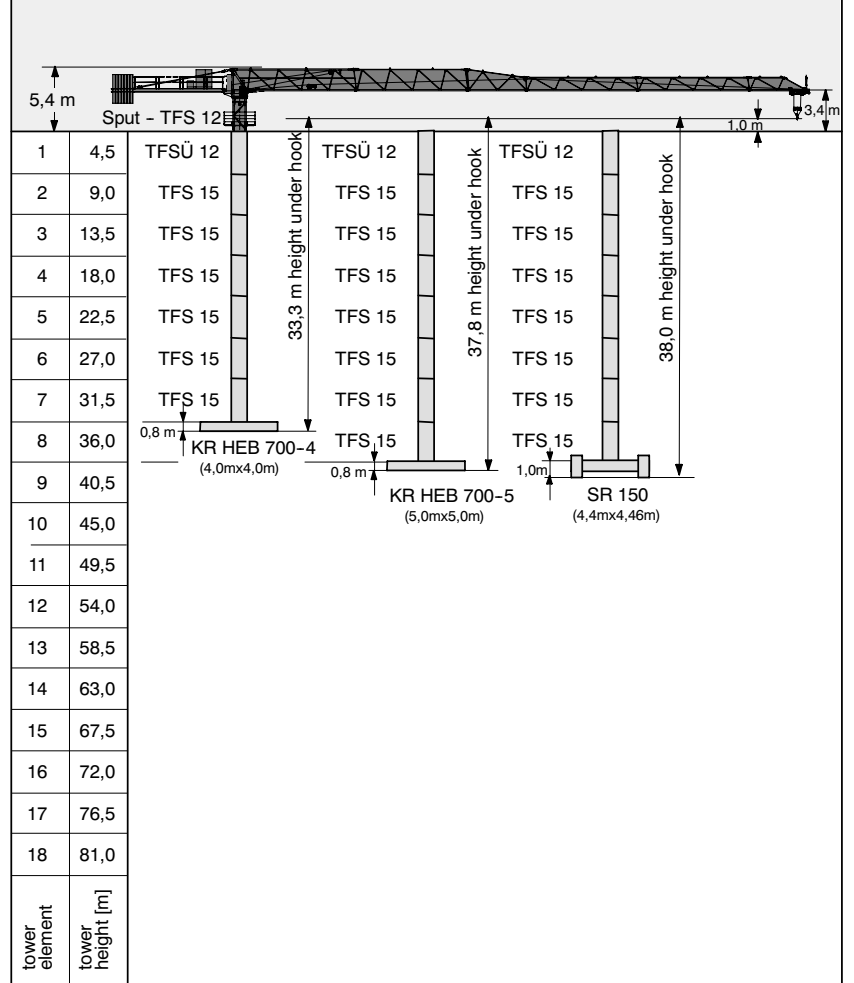
For data regarding cross frames see section 12.  
The tower configurations shown here are recommended for economic crane installation.

Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.

2.2.7.3 Tower configurations

for a free standing stationary slewing tower crane without climbing drive on a stand frame, cross frame

Slewing part:



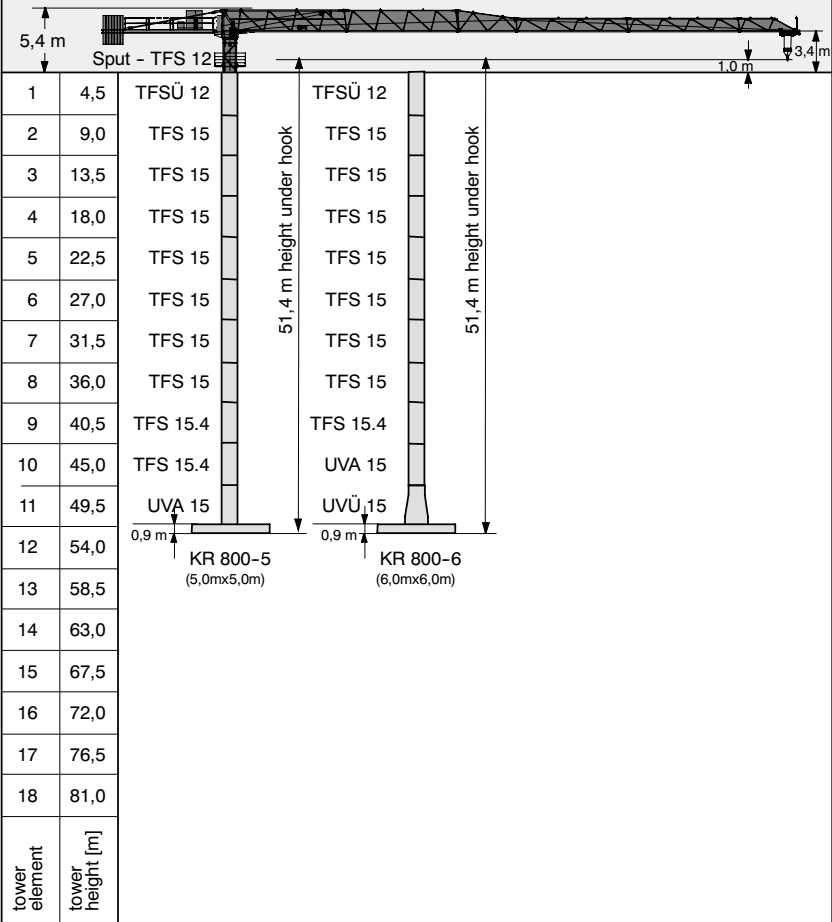
For data regarding stand frames, cross frames see section 12.  
The tower configurations shown here are recommended for economic crane installation.

Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.

2.2.7.4 Tower configurations

for a free standing stationary slewing tower crane without climbing drive on a cross frame

Slewing part:

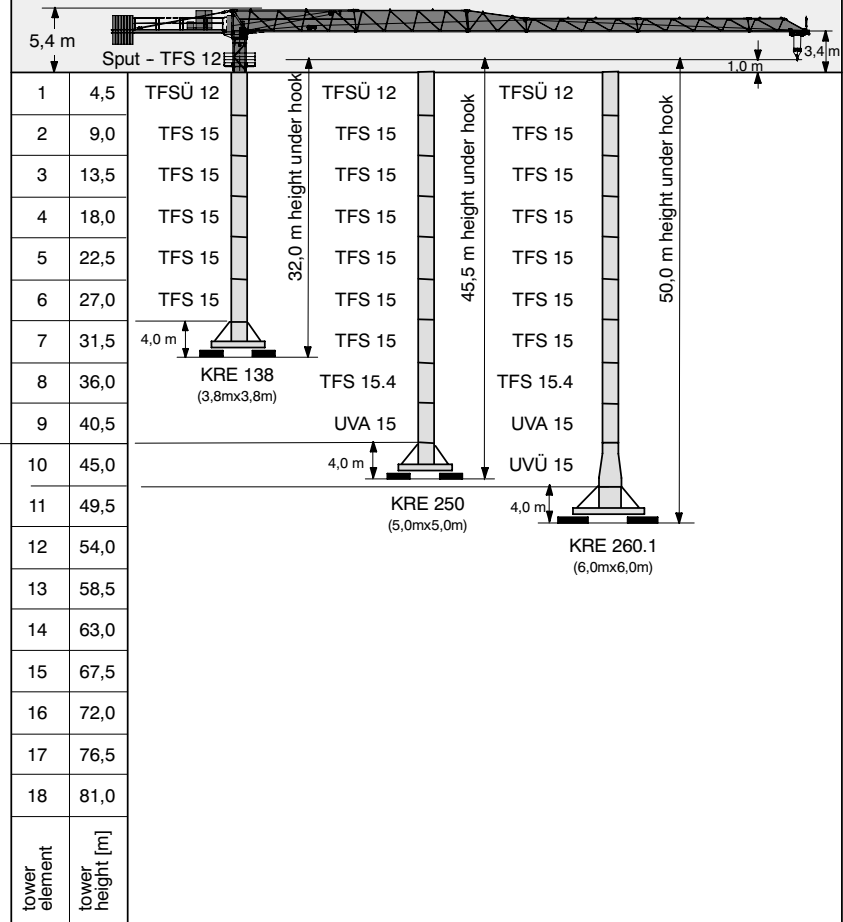


For data regarding cross frames see section 12.  
 The tower configurations shown here are recommended for economic crane installation.  
 Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.

2.2.8.1 Tower configurations

for a free standing stationary slewing tower crane without climbing drive on a cross frame element

Slewing part:



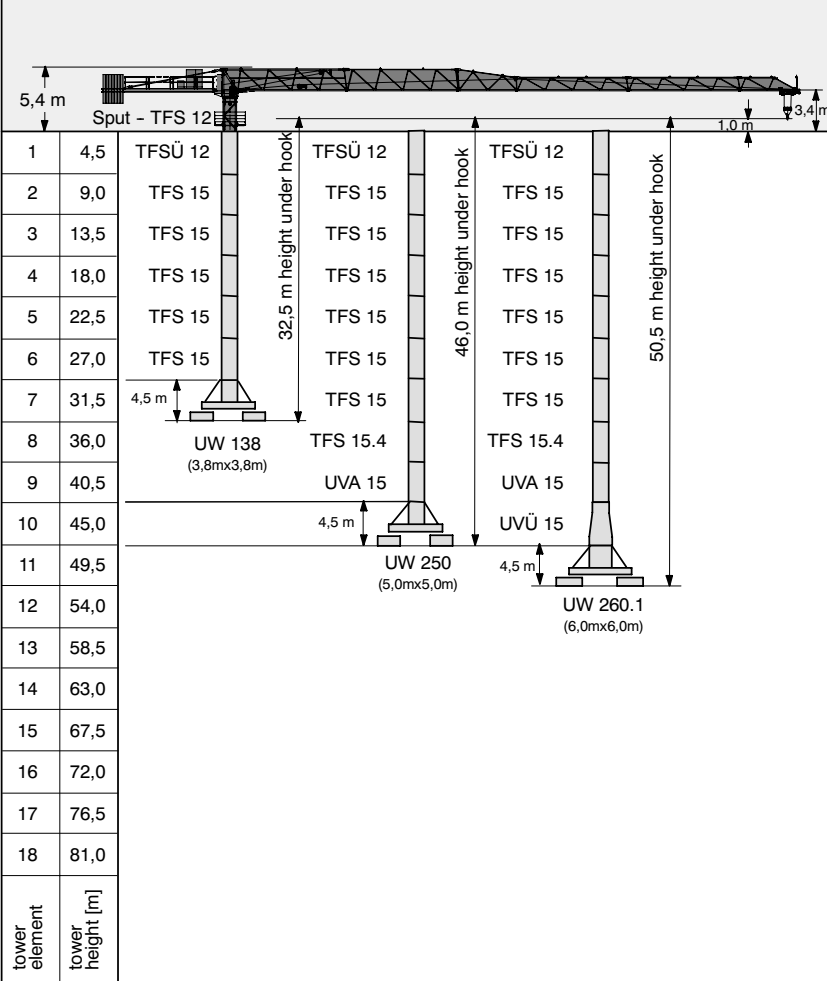
For data regarding cross frame elements see section 12.  
 The tower configurations shown here are recommended for economic crane installation.  
 Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.



2.2.9.1 Tower configurations

for a travelling slewing tower crane without climbing drive

Slewing part:



For data regarding undercarriages see section 12.  
The tower configurations shown here are recommended for economic crane installation.

Tower configurations with other tower elements are possible, but must be checked and confirmed by the manufacturer before assembly.

2.3.1 Colli list

Position	Pieces	Designation	Kolli	L (m)	B (m)	H (m)	Weight (kg)	Volume (m <sup>3</sup> )
1	1	Lower part of tower top with slewing frame KDV slewing drive and slip ring system		4,30	1,68	1,41	2600	10,19
4	1	Platform 1 for slewing frame		1,57	0,39	0,76	80	0,47
5	1	Platform 2 for slewing frame		1,13	0,39	0,82	80	0,36
6	1 (4x)	Ring platform		1,98	0,30	0,77	80	0,46
2	1	Driver's cabin (optional)		1,90	1,44	2,34	750	6,40
3	1	Platform of driver's cabin (optional)		1,89	0,32	1,30	230	0,79
7	1	Counterjib with bracing rods and standard handrails		10,15	1,62	2,01	2790	33,05
8	1	Box (small parts)		0,63	0,5	0,38	100	1,112

Loose and small parts can be distributed depending on the available space.

2.3.2

Colli list

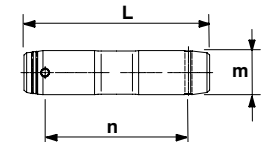
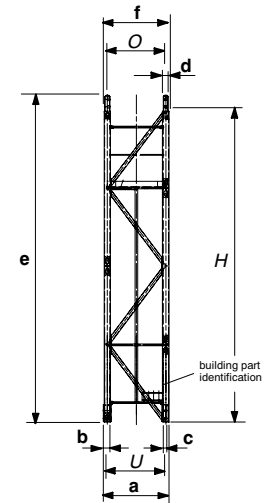
Position	Pieces	Designation	Colli	L	B	H	Weight	Volume
				(m)	(m)	(m)		
9	1	Jib part 1 with hoisting drive trolley drive and bracing traverse		11,97	1,00	2,21	3060	26,45
10	1	Jib part 2		10,19	0,84	2,00	950	17,12
11	1	Jib part 3		5,47	0,84	2,00	495	9,19
12	1 (2x)	Jib part 4		10,18	0,84	1,29	710	11,03
13	1	Jib part 5		2,69	0,84	1,29	240	2,92
14	1	Jib part 6		5,15	0,84	1,30	290	5,63
15	1	rope swivel traverse		0,79	0,77	0,41	60	0,25
16	1	Trolley LK 3/6		1,55	1,07	0,80	200	1,33
17	1	Maintenance cage for LK 3/6		0,75	0,55	1,69	55	0,70
18	1	Hook block U 3/6 (loose part)		0,72	0,21	1,40	240	0,21

Loose and small parts can be distributed depending on the available space.

2.3.3

Tower element

Tower element	TFS 12	
Weight	kg	1350
<b>Dimensions</b>		
a	mm	1200
b	mm	120
c	mm	98
d	mm	93
e	mm	5893
f	mm	1200
g	mm	--
<b>System dimensions</b>		
H	mm	5750
O	mm	1080
U	mm	1080
<b>Pins</b>		
Weight (8 pins)	kg	26
Part No.	30000003	
L	mm	220
m Ø	mm	50
n	mm	155
Quantity	8	
<b>Spring clamps</b>		
Part No.	10005518	
Ø	6	
Quantity	16	



**WOLFF tower crane**

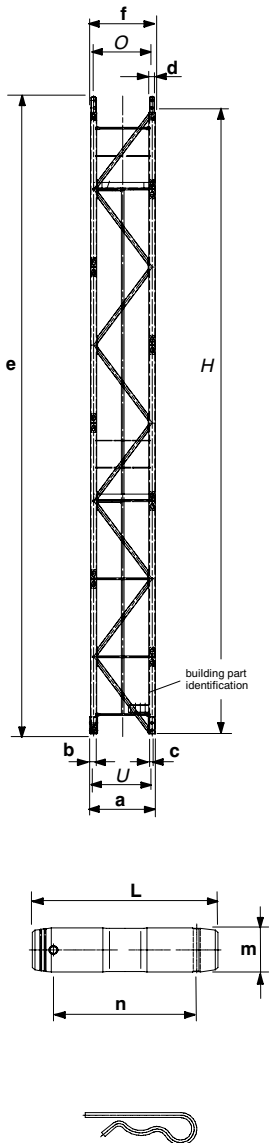
**Crane data**

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2.3.4

**Tower element**

Tower element	TFS 12 LC	
Weight	kg	2630
<b>Dimensions</b>		
a	mm	1200
b	mm	120
c	mm	98
d	mm	93
e	mm	11785
f	mm	1200
g	mm	--
<b>System dimensions</b>		
H	mm	11500
O	mm	1080
U	mm	1080
<b>Pins</b>		
Weight (8 pins)	kg	26
Part No.	30000003	
L	mm	220
m Ø	mm	50
n	mm	155
Quantity	8	
<b>Spring clamps</b>		
Part No.	10005518	
Ø	6	
Quantity	16	



962-4-028852E

**WOLFF tower crane**

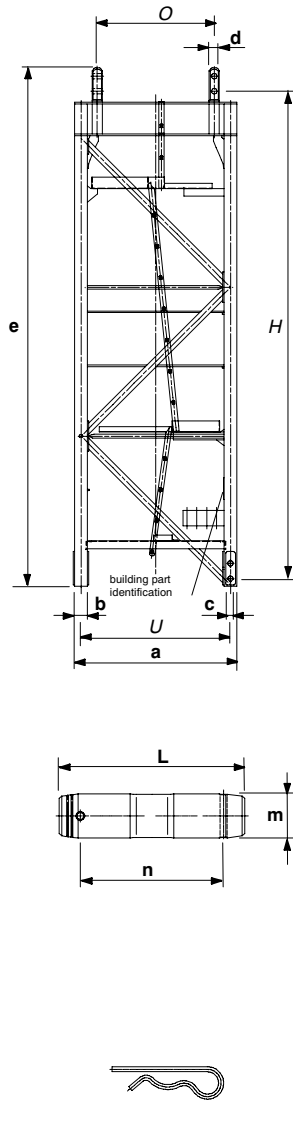
**Crane data**

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2.3.5

**Tower element**

Tower element	TFSÜ 12	
Weight	kg	1630
<b>Dimensions</b>		
a	mm	1500
b	mm	120
c	mm	98
d	mm	93
e	mm	4785
<b>System dimensions</b>		
H	mm	4500
O	mm	1080
U	mm	1379
<b>Pins</b>		
Weight (8 pins)	kg	26
Part No.	30000003	
L	mm	220
m Ø	mm	50
n	mm	155
Quantity	8	
<b>Spring clamps</b>		
Part No.	10005518	
Ø	6	
Quantity	16	



962-4-028749E

**WOLFF tower crane**

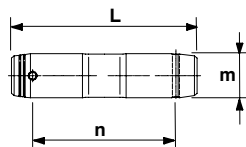
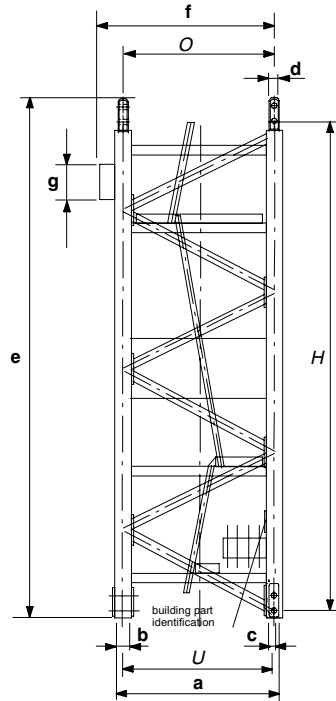
**Crane data**

2 / 45

2.3.7

**Tower element**

Tower element	TFS 15.4	
Weight	kg	1622
<b>Dimensions</b>		
a	mm	1500
b	mm	120
c	mm	98
d	mm	93
e	mm	4785
f	mm	1610
g	mm	295
<b>System dimensions</b>		
H	mm	4500
O	mm	1379
U	mm	1379
<b>Pins</b>		
Weight	kg	26
(8 pins)		
Part No.	30000003	
L	mm	220
m Ø	mm	50
n	mm	155
Quantity	8	
<b>Spring clamps</b>		
Part No.	10005518	
Ø	6	
Quantity	16	



962-4-028750E

**WOLFF tower crane**

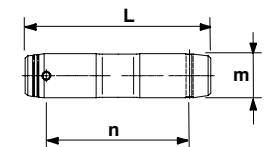
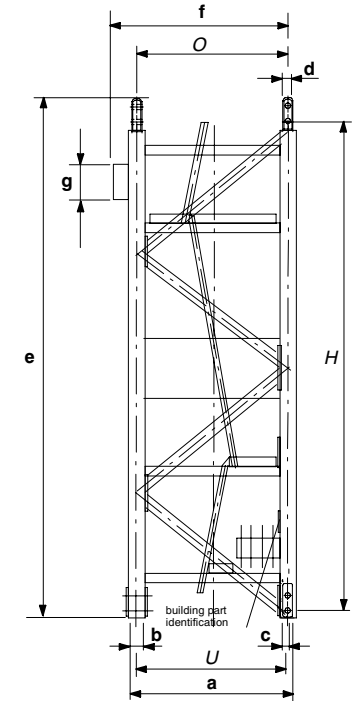
**Crane data**

2 / 46

2.3.7

**Tower element**

Tower element	UVA 15.4	
Weight	kg	2015
<b>Dimensions</b>		
a	mm	1500
b	mm	151
c	mm	126
d	mm	93
e	mm	4785
f	mm	1610
g	mm	295
<b>System dimensions</b>		
H	mm	4500
O	mm	1379
U	mm	1349
<b>Pins</b>		
Weight	kg	45
(8 pins)		
Part No.	30000002	
L	mm	275
m Ø	mm	60
n	mm	155
Quantity	8	
<b>Spring clamps</b>		
Part No.	10022204	
Ø	10	
Quantity	16	



962-4-028751E

**WOLFF tower crane**

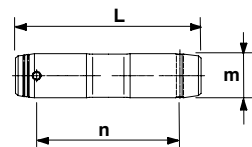
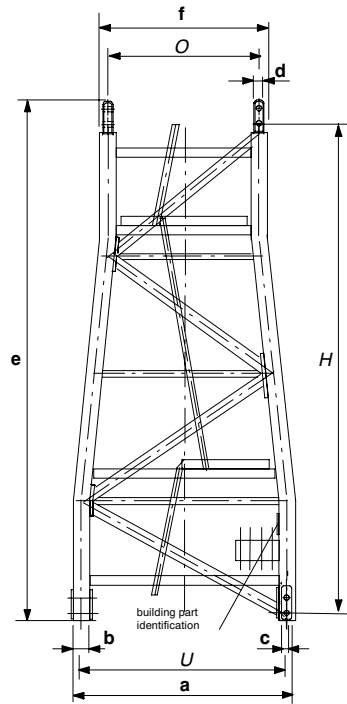
**Crane data**

2 / 47

2.3.8

**Tower element**

Tower element		UVÜ 15.4
Weight	kg	2270
<b>Dimensions</b>		
a	mm	2000
b	mm	151
c	mm	126
d	mm	118
e	mm	4815
f	mm	1500
<b>System dimensions</b>		
H	mm	4500
O	mm	1379
U	mm	1849
<b>Pins</b>		
Weight (8 pins)	kg	45
Part No.	30000002	
L	mm	275
m Ø	mm	60
n	mm	155
Quantity	8	
<b>Spring clamps</b>		
Part No.	10022204	
Ø	10	
Quantity	16	



962-4-028752E

**WOLFF 4517 city**

**Crane data**

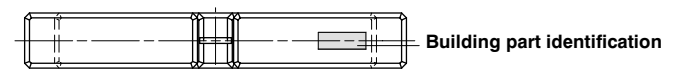
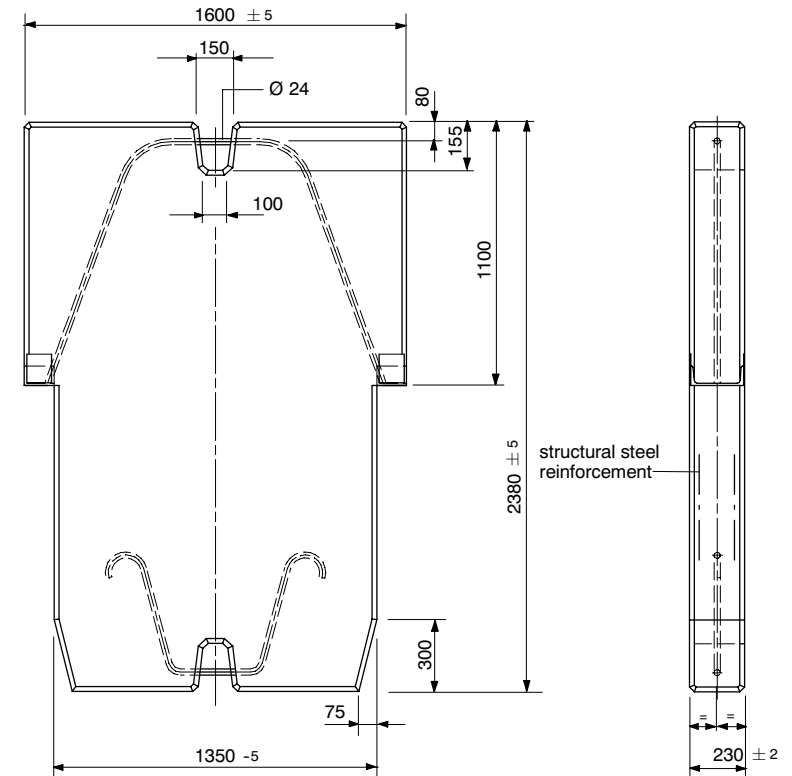
2 / 50

2.4.1

**Counterweight stone 1,8 t**

962-2-028365

**Material: Concrete, minimum quality B 25**  
**Density = 2,4 t/m<sup>3</sup>**  
 Max. admissible weight tolerance ± 2%



Arrangement of counterweights see load capacity table

962-4-028753E

2.5.1

## Assembly weights - Slewing part

<b>Complete lower part of tower top - without driver's cabin</b>		<b>3 080 kg</b>
Complete lower part of tower top with ring platform and standard handrails		
- Lower part of tower top with slewing frame, KDV, slewing drive	2 600 kg	
- Platforms, standard handrails	160 kg	
- Ring platform	320 kg	
<b>Complete lower part of tower top - with driver's cabin (optional)</b>		<b>4 060 kg</b>
Complete lower part of tower top with ring platform, driver's cabin, driver's cabin suspension and standard handrails		
- Lower part of tower top with slewing frame, KDV, slewing drive	2 600 kg	
- Platforms, standard handrails	160 kg	
- Ring platform	320 kg	
- Driver's cabin with suspension	980 kg	
<b>Complete counterjib</b>		<b>2 900 kg</b>
Switch cabinet, resistors, 2 bracing brackets (2 x 7832 mm) and standard handrails		
<b>50 m</b>	<b>Complete trolley jib</b>	<b>6 770 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>47,5 m</b>	<b>Complete trolley jib</b>	<b>6 720 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>45 m</b>	<b>Complete trolley jib</b>	<b>6 480 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>42,5 m</b>	<b>Complete trolley jib</b>	<b>6 300 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		

2.5.2

## Assembly weights - slewing part

<b>40 m</b>	<b>Complete trolley jib</b>	<b>6 060 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>37,5 m</b>	<b>Complete trolley jib</b>	<b>6 010 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>35 m</b>	<b>Complete trolley jib</b>	<b>5 770 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>32,5 m</b>	<b>Complete trolley jib</b>	<b>5 590 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>30 m</b>	<b>Complete trolley jib</b>	<b>5 350 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>27,5 m</b>	<b>Complete trolley jib</b>	<b>5 300 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		
<b>25 m</b>	<b>Complete trolley jib</b>	<b>5 060 kg</b>
Hoisting drive, trolley drive		
- Bracing brackets, assembly bracket, hang up clamps, standard handrails		
- Trolley, trolley ropes, hook block		

2.5.3

## Assembly weights - cross frame

<b>Cross frame KR 6 - 40</b> (4,0 m x 4,0 m)	(without optional features) - 4 spigots AZ 93.4 - 4 spigots AZ 93.4 E 15	<b>3 450 kg</b> 200 kg 240 kg
<b>Cross frame KR 7 - 32</b> (3,2 m x 3,2 m)	(without optional features) - 4 spigots AZ 85 E 20.5 - 4 spigots AZ 93.4 E 15 - 4 spigots AZ 120 M	<b>3 350 kg</b> 210 kg 240 kg 292 kg
<b>Cross frame KRV 7 - 32</b> (3,2 m x 3,2 m)	(without optional features) - 4 spigots AZ 85 E 20.5 - 4 spigots AZ 93.4 E 15 - 4 spigots AZ 120 M	<b>3 680 kg</b> 210 kg 240 kg 292 kg
<b>Cross frame KRS 8 - 46</b> (4,6 m x 4,6 m)	(without optional features) - 4 spigots AZ 85 E 20.5 - 4 spigots AZ 93.4 E 15 - 4 spigots AZ 120 M	<b>5 250 kg</b> 210 kg 240 kg 292 kg
<b>Cross frame KR 10 - 46/60</b> (4,6 m x 4,6 m)	(without optional features) - 4 spigots AZR 120 E 15.5 - 4 spigots AZ 140 M	<b>7 020 kg</b> 552 kg 698 kg
<b>Cross frame KR 10 - 46/60</b> (6,0 m x 6,0 m)	(without optional features) - 4 spigots AZR 120 E 15.5 - 4 spigots AZ 140 M	<b>8 875 kg</b> 552 kg 698 kg
<b>Cross frame KR HEB 700-4</b> (4,0 m x 4,0 m)	- 4 spigots AZ 93.4 M	<b>4 450 kg</b> 240 kg
<b>Cross frame KR HEB 700-5</b> (5,0 m x 5,0 m)	(without optional features) - 4 spigots AZ 93.4 M	<b>5 410 kg</b> 240 kg
<b>Cross frame KR HEB 800-5</b> (5,0 m x 5,0 m)	- 4 spigots AZ 120 M	<b>5 860 kg</b> 292 kg
<b>Cross frame KR HEB 800-6</b> (6,0 m x 6,0 m)	(without optional features) - 4 spigots AZ 120 M	<b>6 600 kg</b> 292 kg
<b>Stand frame SR 150</b> (4,6 m x 4,6 m)	(without optional features) - 4 spigots AZ 85 E 20.5 - 4 spigots AZ 93.4 E 15 - 4 spigots AZ 120 M	<b>5 460 kg</b> 210 kg 240 kg 292 kg

2.5.4

## Assembly weights - cross frame elements and undercarriages

<b>Cross frame element KRE 138 complete</b>		<b>3 800 kg</b>
	- Cross frame platform with cross bars, corner bearings and safety devices for transport - base mast part with diagonal struts	2 100 kg 1 700 kg
<b>Cross frame element KRE 250 complete</b>		<b>5 750 kg</b>
	- Cross frame platform with swivel arm, corner bearings and safety devices for transport - base mast part with diagonal struts and track rods	2 730 kg 3 020 kg
<b>Cross frame element KRE 260.1 complete</b>		<b>8 100 kg</b>
	- Cross frame platform with swivel arm, corner bearings and safety devices for transport - base mast part with diagonal struts and track rods	4 320 kg 3 780 kg
<b>Undercarriage UW 138 complete</b>		<b>5 750 kg</b>
	- Undercarriage platform with cross bars, Distance bearing and sub-frames - base mast part with diagonal struts	3 970 kg 1 780 kg
<b>Undercarriage UW 250 complete</b>		<b>8 800 kg</b>
	- Undercarriage platform with swivel arms, Sub-frames and safety devices for transport - base mast part with diagonal struts and track rods	5 600 kg 3 200 kg
<b>Undercarriage UW 260.1 complete</b>		<b>11 400 kg</b>
	- Undercarriage platform with swivel arms, Sub-frames and safety devices for transport - base mast part with diagonal struts and track rod	7 150 kg 4 250 kg

2.5.5

Required height under hook for the mobile crane



**Danger!**

Use suspension ropes with sufficient capacity and observe suspension plan!

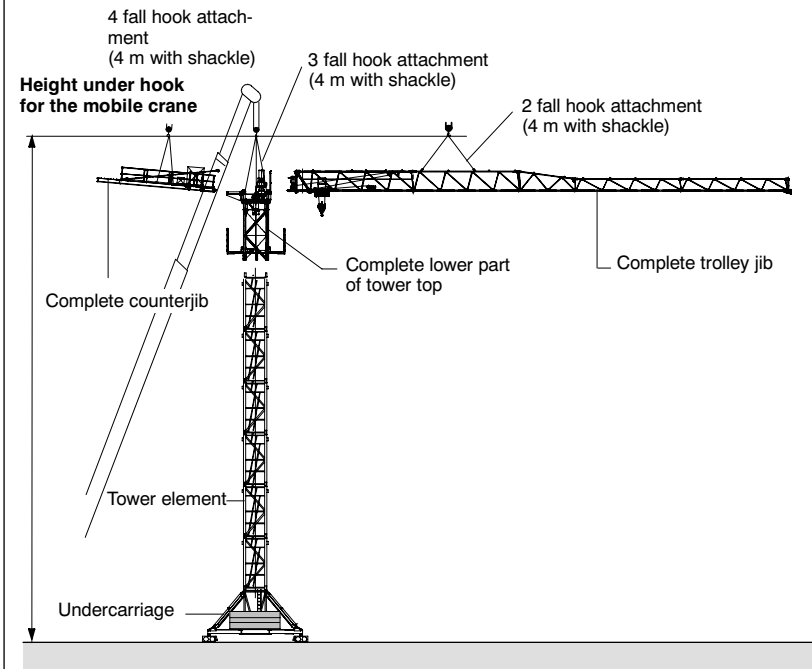
**Required height under hook for the mobile crane**

=  
**Height under hook of the WOLFF slewing tower crane + 11 m.**

For data regarding the height under hook of WOLFF slewing tower cranes see tower configurations.

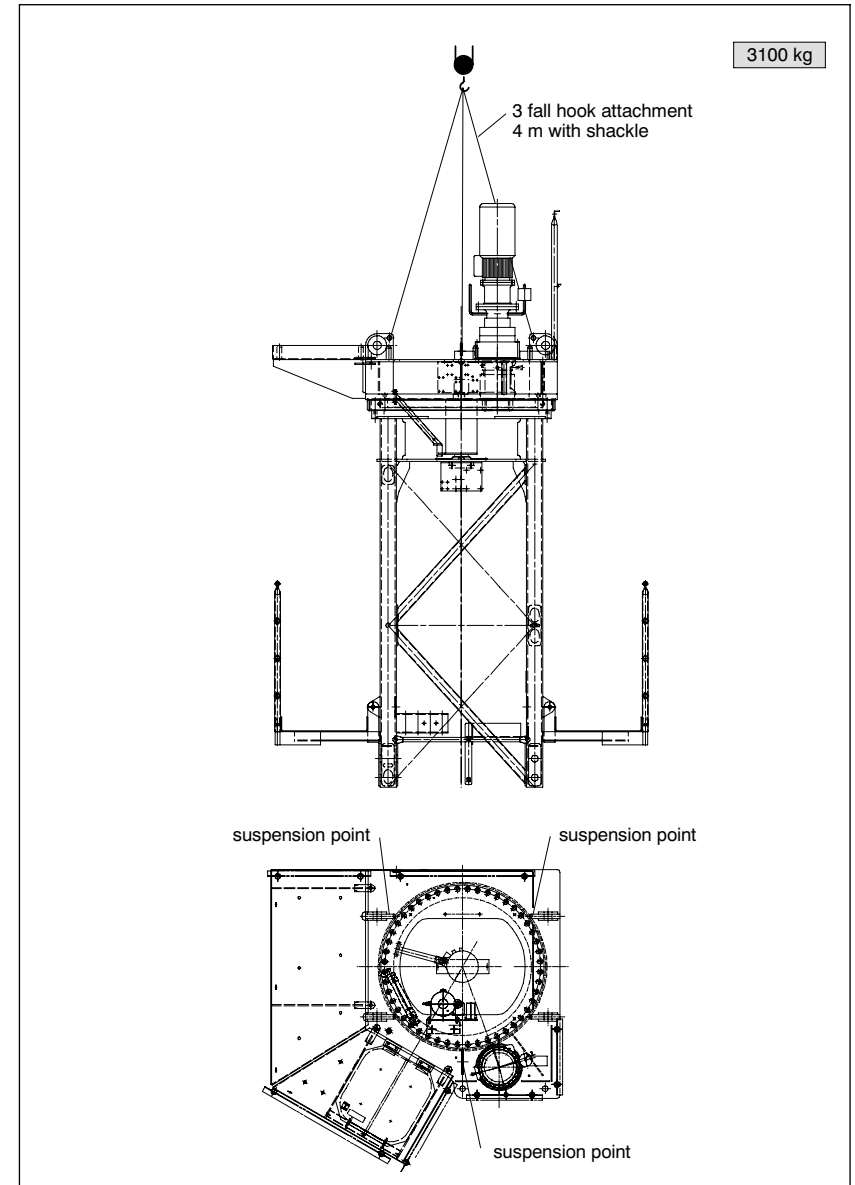
If the crane will be erected on another substructure, the required height under hook of the crane will be changed by the structural dimensions of the substructure.

Differences in ground (mobile crane basis - tower crane basis) must be considered for assembly.



2.6.1

Lower part of tower top – suspension plan





2.6.2.1 Trolley jib - suspension plan from 50 m to 47,5 m

Divided assembly

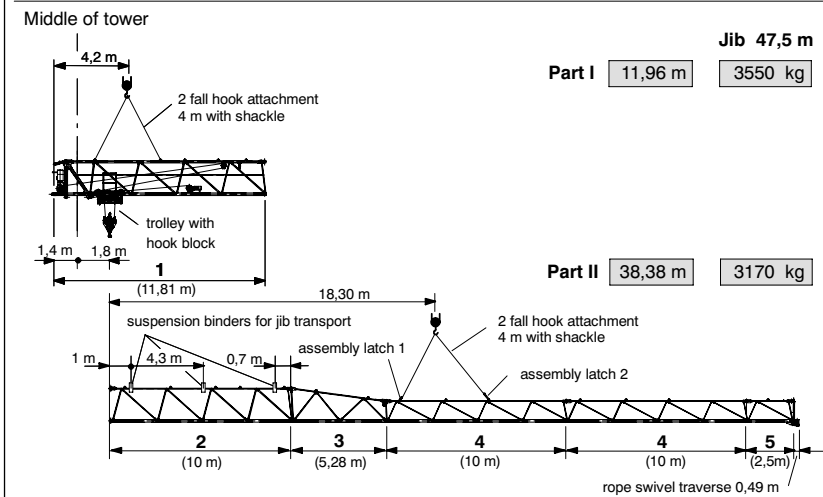
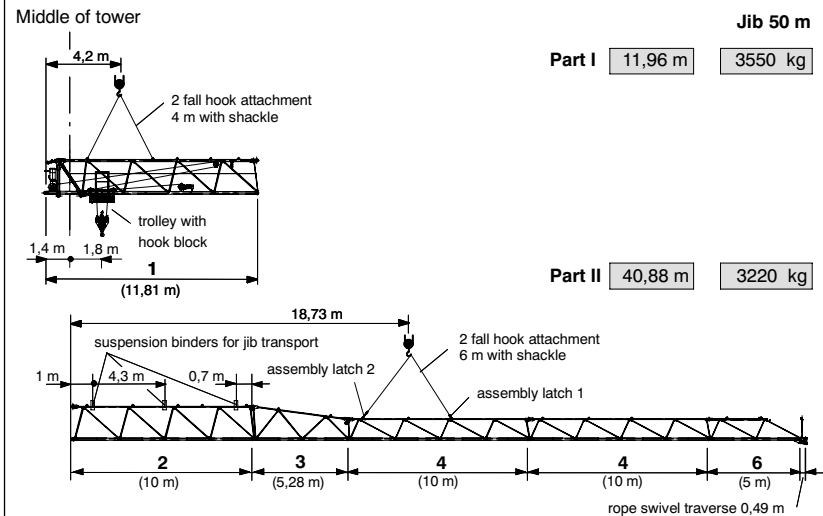


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.2 Trolley jib - suspension plan from 45 m to 42,5 m

Divided assembly

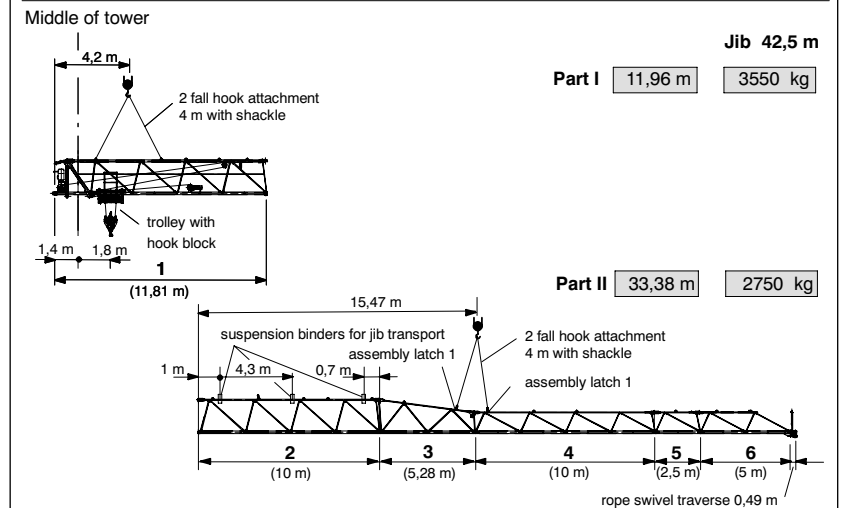
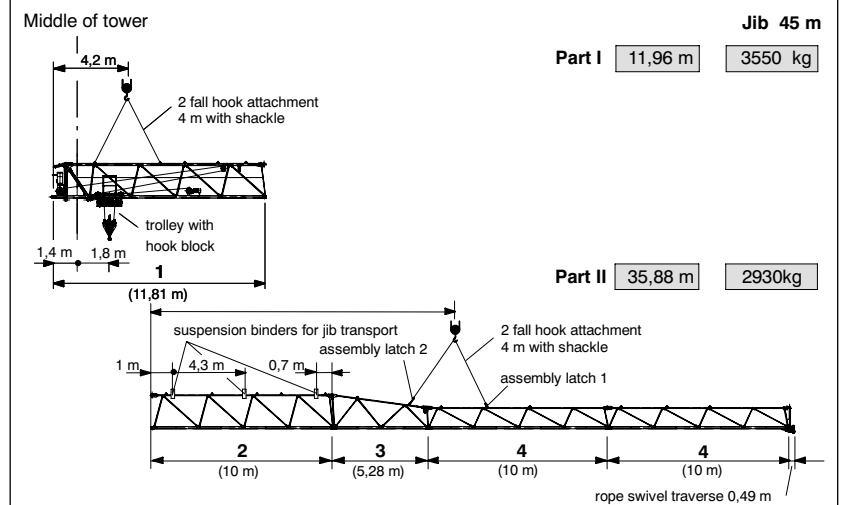


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.3 Trolley jib - suspension plan from 40 m to 37,5 m

Divided assembly

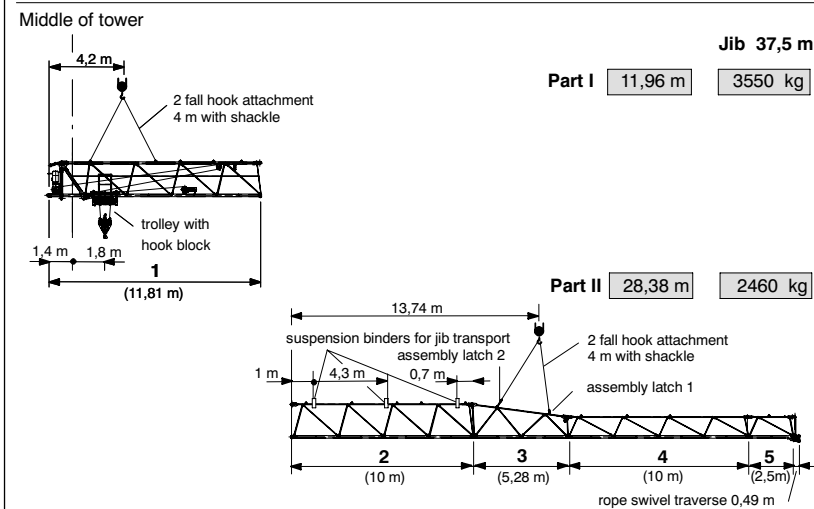
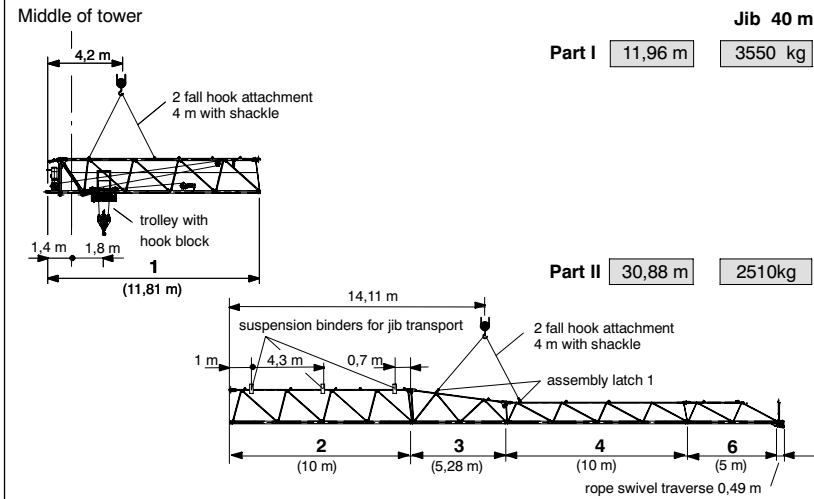


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.4 Trolley jib - suspension plan from 35 m to 32,5 m

Divided assembly

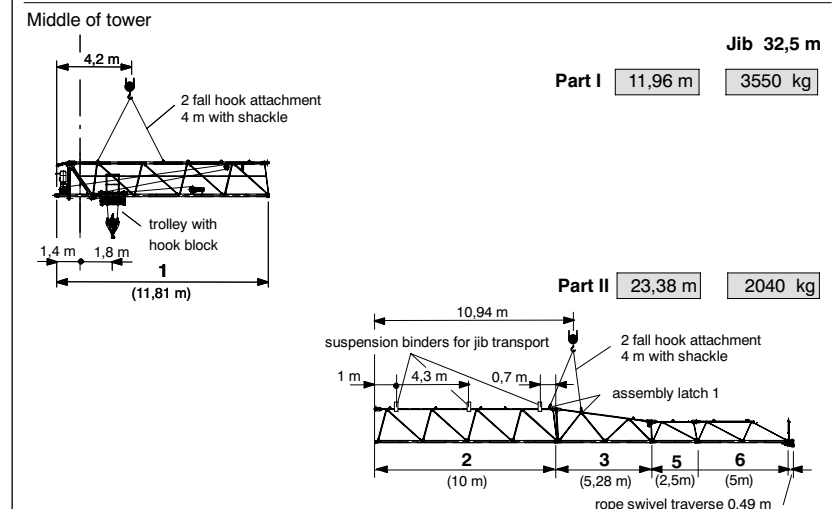
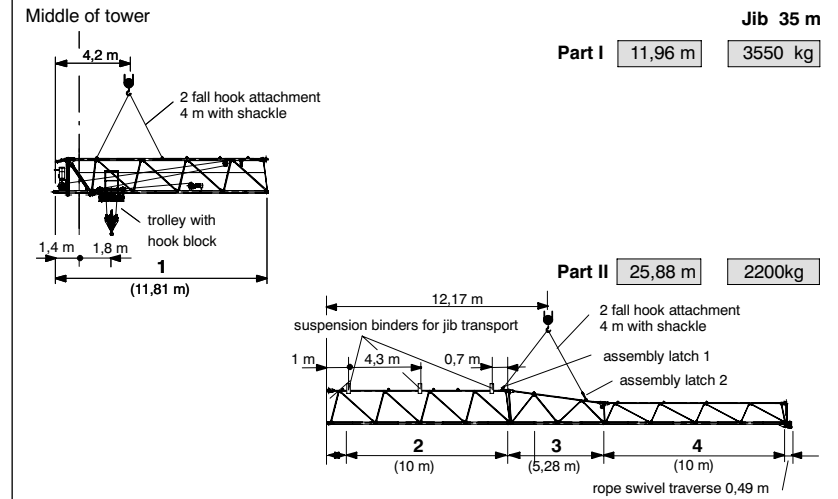


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.5 Trolley jib - suspension plan from 30 m to 27,5 m

Divided assembly

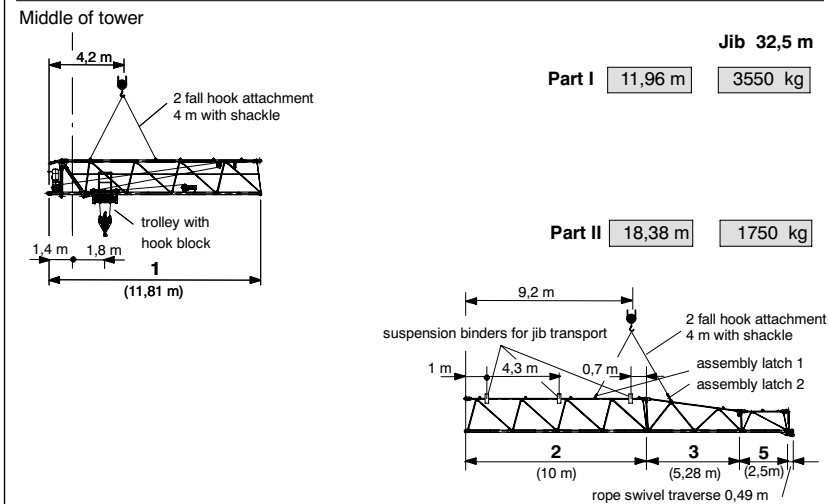
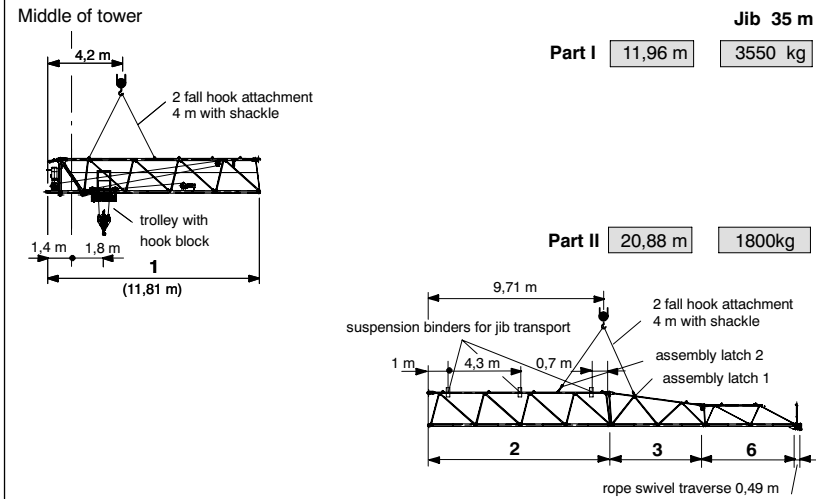


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.6 Trolley jib - suspension plan from 25 m

Divided assembly

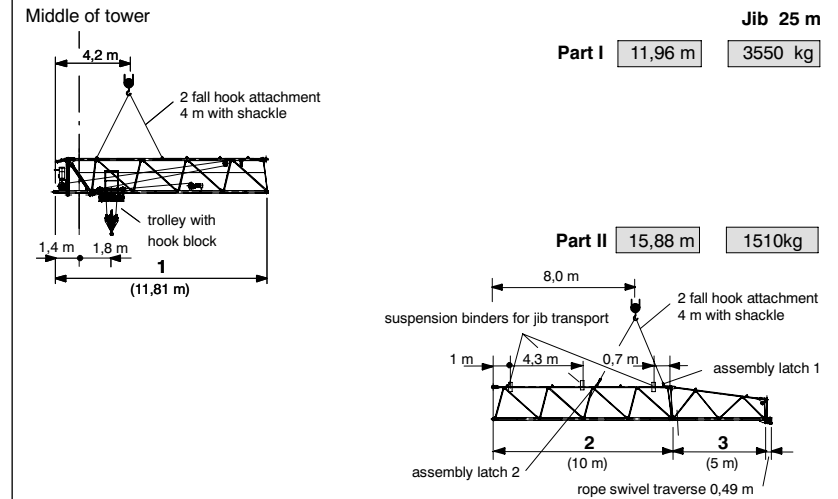


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.7

Trolley jib - suspension plan from 45 m to 40 m

Complete assembly

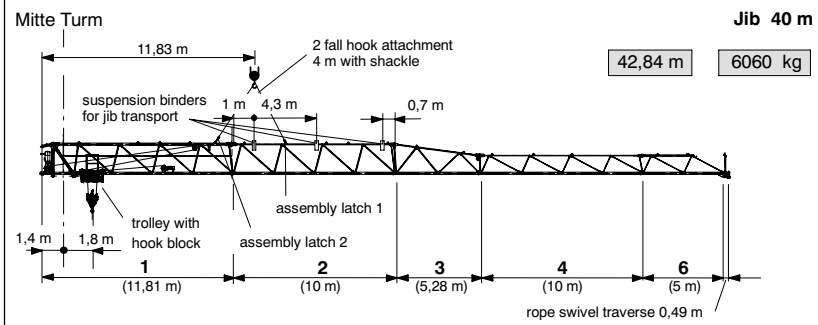
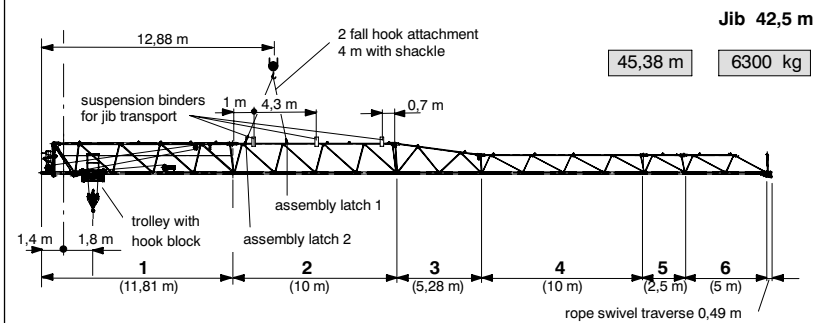
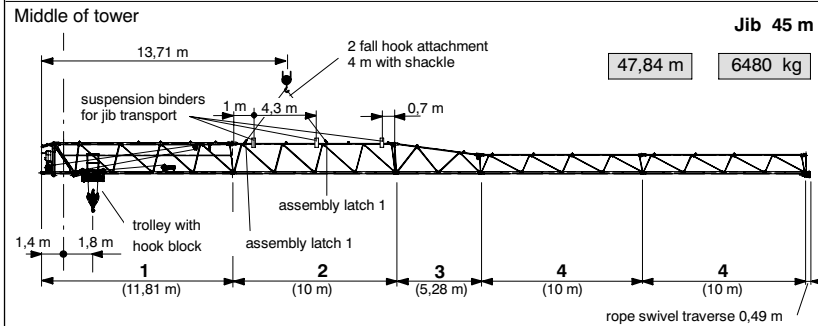


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.8

Trolley jib - suspension plan from 37,5 m to 32,5 m

Complete assembly

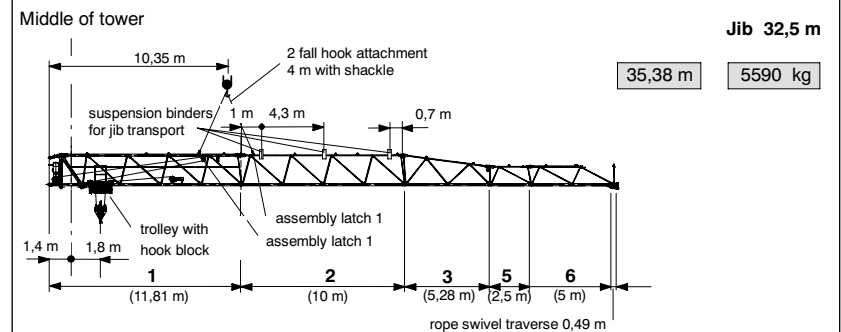
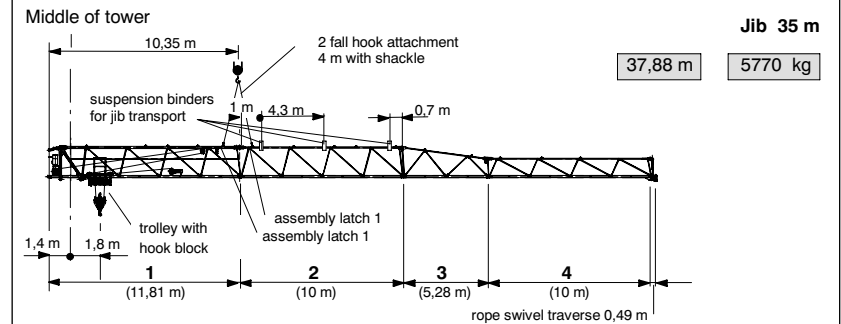
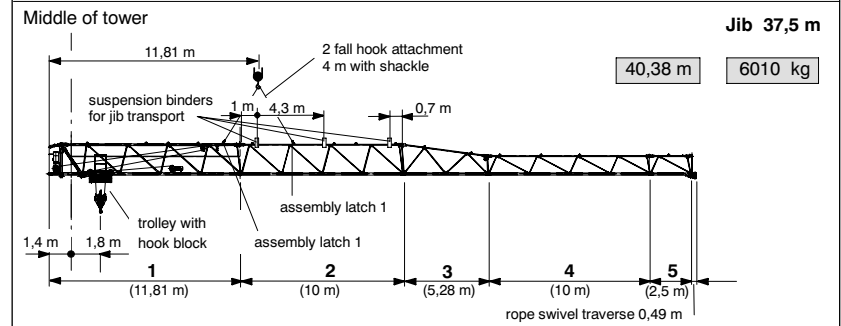


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.9 Trolley jib - suspension plan from 30 m to 25 m

Complete assembly

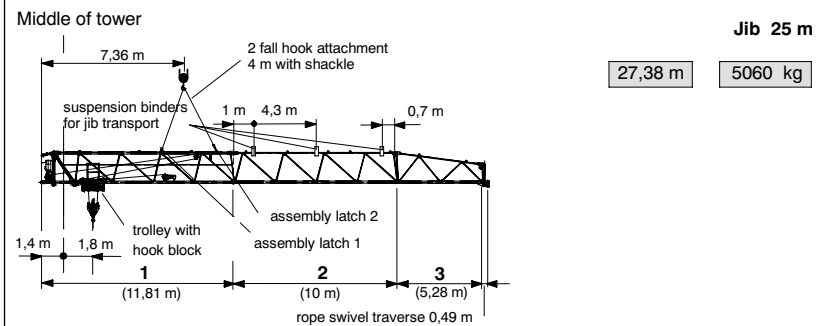
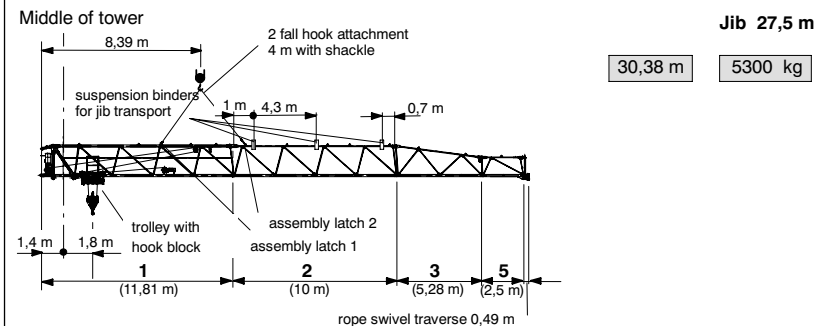
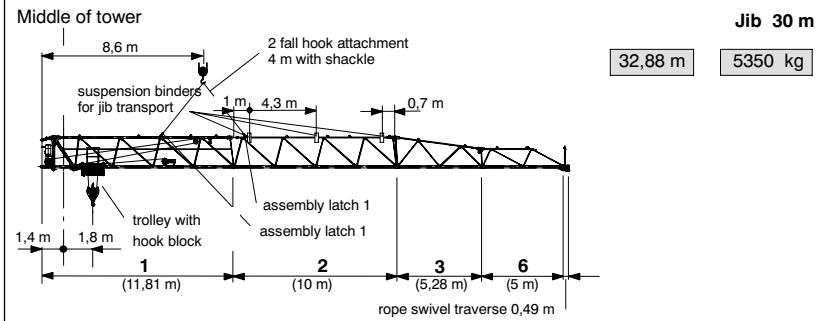


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.10 Counterjib with trolley jib - suspension plan from 50 m to 45 m

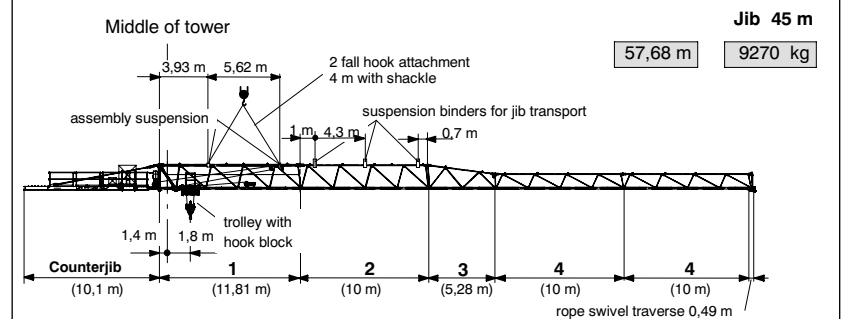
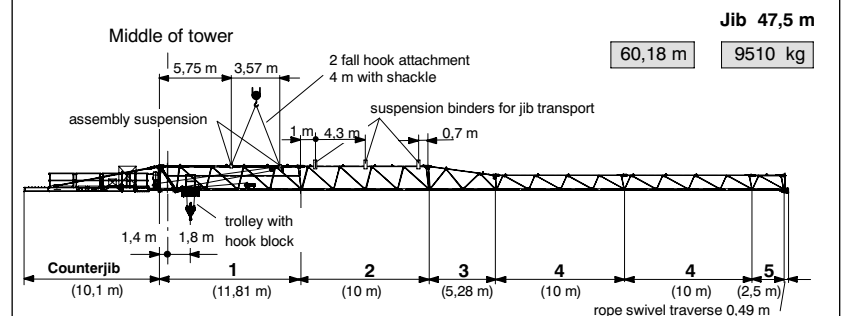
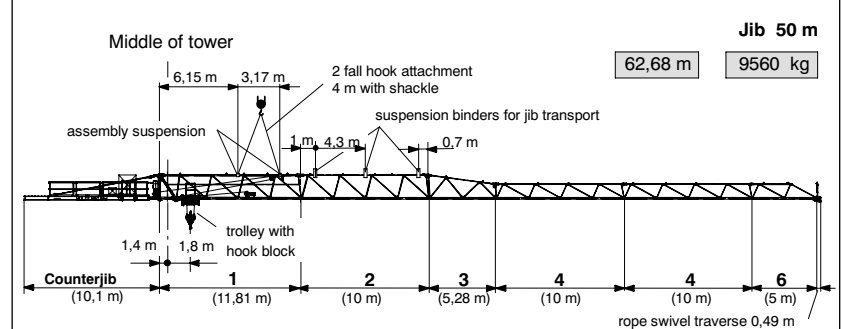


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.11 Counterjib with trolley jib - suspension plan from 42,5 m to 37,5 m

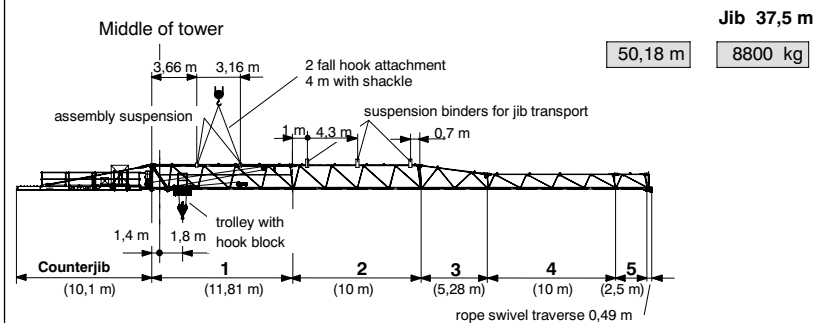
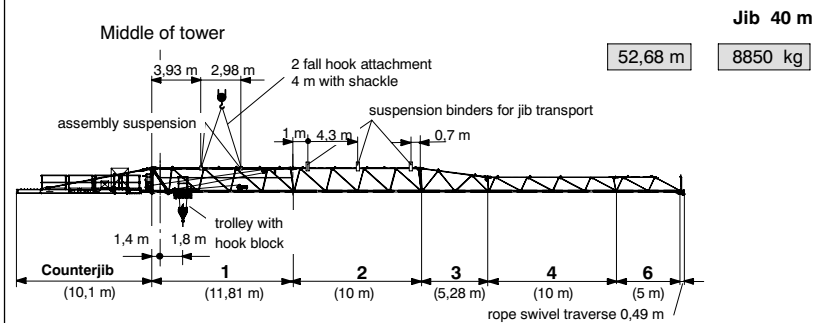
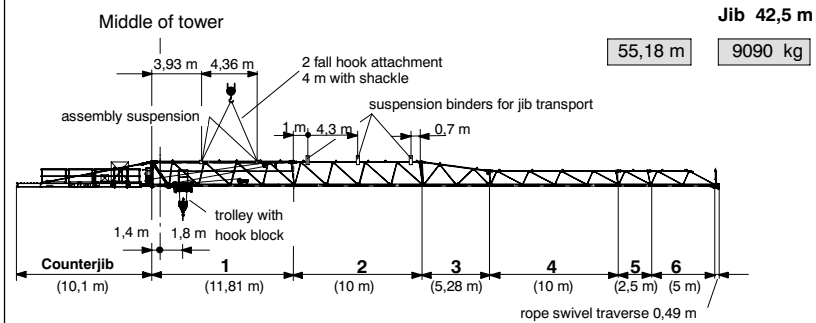


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.12 Counterjib with trolley jib - suspension plan from 35 m to 30 m

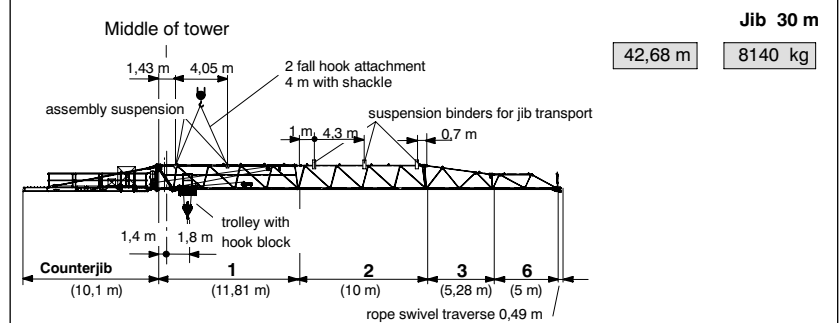
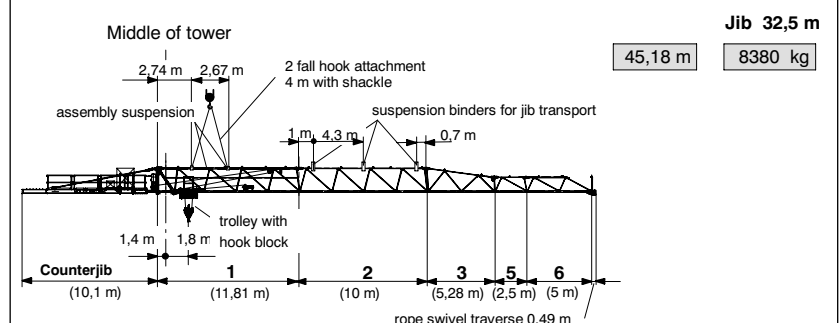
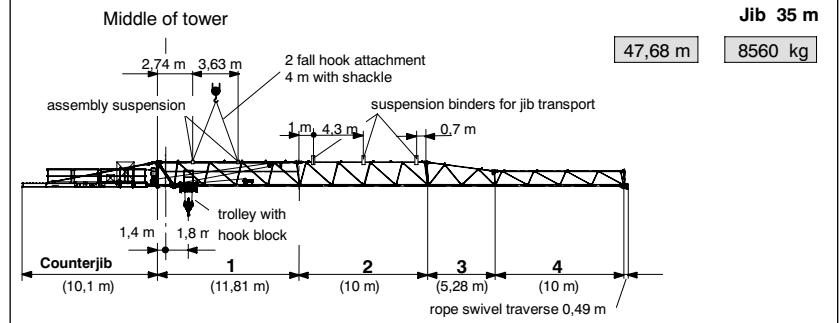


**Danger during disassembly!**

Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.2.13 Counterjib with trolley jib - suspension plan from 27,5 m to 25 m

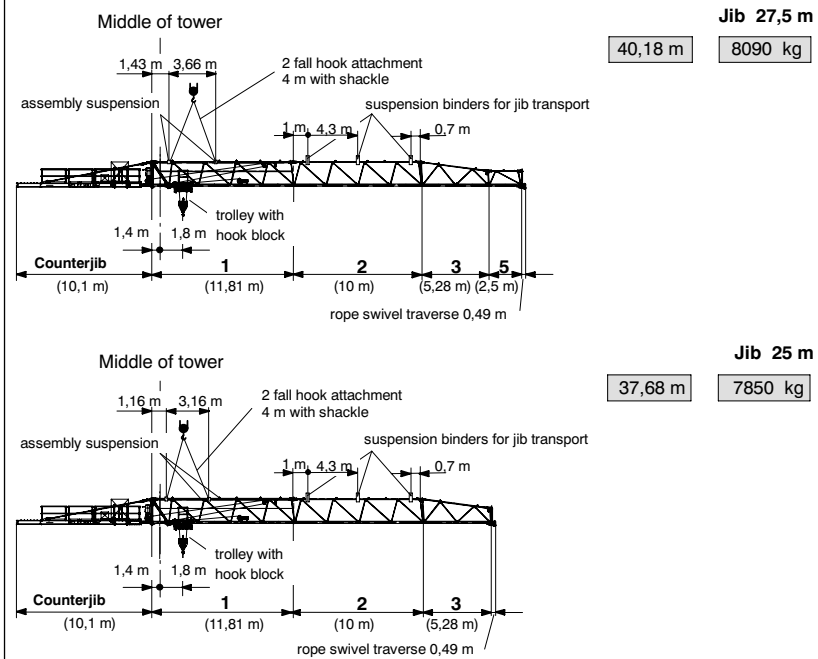


**Danger during disassembly!**

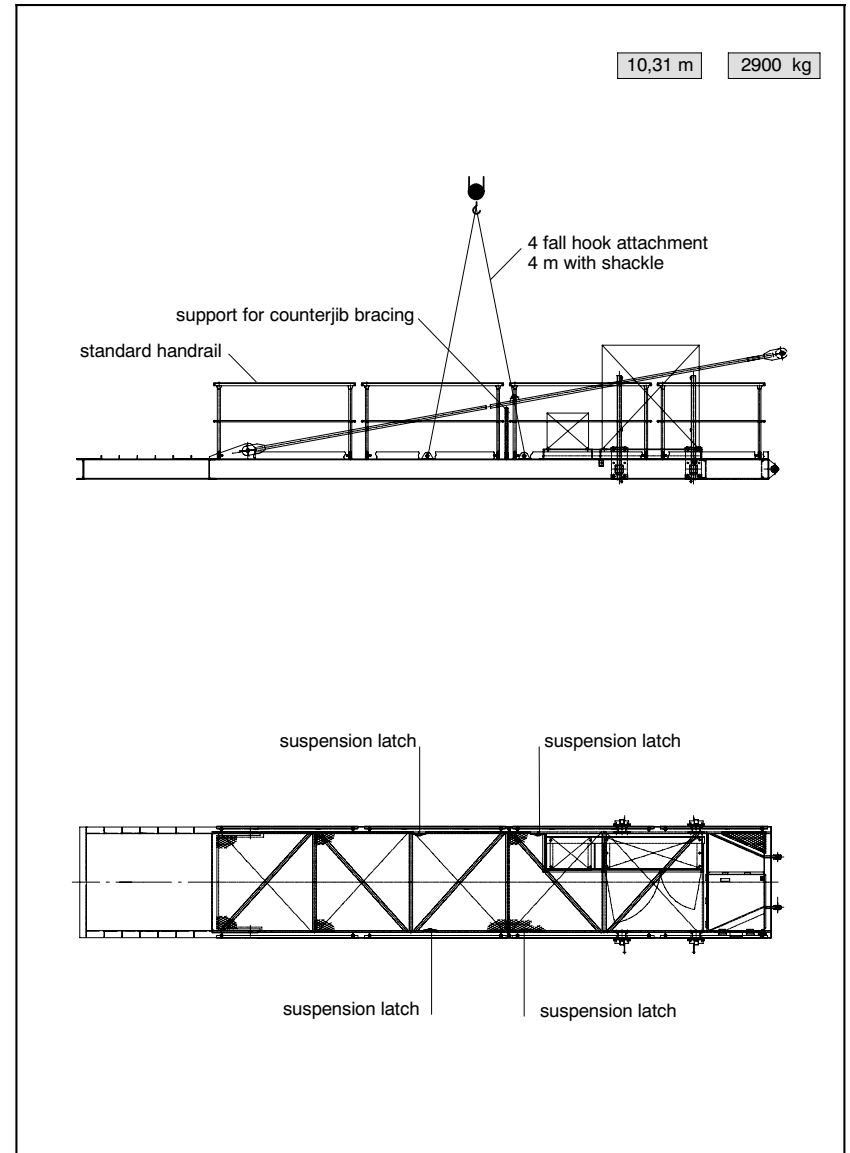
Suspend the trolley jib at the given suspension points. There mustn't be any loose parts on the trolley jib.

The parts of the trolley jib are signed with a building part identification sign at the upper chord.

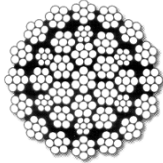
More details concerning assembly latches and suspension binders see point 2.6.3.



2.6.4.1 Suspension plan for counterjib



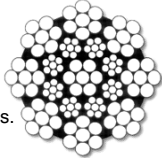
2.7.1 Hoisting rope for hoisting winch - Hw 318 FU

<p><b>Cable Ø = 12 mm</b> <sup>+ 4%</sup>/<sub>2%</sub></p>	<p><b>First equipment</b></p> <p><b>CASAR STARLIFT -</b> non-twisting, flexible hoisting rope with compressed steel cable core.</p>  <p><b>nominal strength</b> = 1770 N/mm<sup>2</sup> <b>calc. breaking strength</b> = 130,9 kN <b>min. breaking strength</b> = 99,9 kN <b>weight per meter</b> = 0,665 kg</p>
<p><b>Machart</b></p>	<p>Lang lay rope, right handed made from blank cable wire.</p> <p>middle space factor = 0,654 spinning loss factor = 0,76 middle weight factor = 0,90 total twist number = 245</p> <p>number of carrying wires in the outer strands is to be judged by the state of wear according to DIN 15020 Bl. 2 / ISO DIS 4309 = 112</p>

<b>Basic equipment</b>							
Rope length 275 m	<table border="1"> <tr> <td>for crane with:</td> <td>operation in 4 falls</td> </tr> <tr> <td>radius.....</td> <td>50 m</td> </tr> <tr> <td>hook path.....</td> <td>50 m</td> </tr> </table>	for crane with:	operation in 4 falls	radius.....	50 m	hook path.....	50 m
for crane with:	operation in 4 falls						
radius.....	50 m						
hook path.....	50 m						
<p>By lengthening the hook path by 1 tower element (4,5 m) the necessary cable length increases by <b>9,0 m for operation in 2 falls</b> and by <b>18,0 m for operation in 4 fall.</b></p>							

**!** **Attention!**  
A wire cable is a complex machine element.  
Conventional cable design frequently doesn't meet the requirements of modern rope drives. short service life is the result.

2.7.2 Traversing rope

<p><b>Cable Ø = 6 mm</b> <sup>+ 4%</sup>/<sub>+ 2%</sub></p>	<p><b>First equipment</b></p> <p><b>CASAR UNILIFT -</b> cable with 8 strands in non-overlapped double parallel construction made out of uncompressed strands.</p>  <p><b>nominal strength</b> = 1960 N/mm<sup>2</sup> <b>calc. breaking strength</b> = 35,4 kN <b>min. breaking strength</b> = 32,3 kN <b>weight per meter</b> = 0,157 kg</p>
<p><b>Design</b></p>	<p>crossed lay rope, right handed, surface of wires zinc coated.</p> <p>middle space factor = 0,643 spinning loss factor = 0,90 weight factor = 0,87 total twist number = 119</p> <p>Number of carryig wires in the outer strands is to be judged by the state of wear according to DIN 15020 Bl. 2 / ISO DIS 4309 = 56</p>

<b>Basic equipment</b>											
<table border="1"> <tr> <td>cable lengths</td> <td>1 x 57 m</td> <td>for crane with:</td> <td>radius</td> <td>50 m</td> </tr> <tr> <td></td> <td>1 x 99 m</td> <td></td> <td></td> <td></td> </tr> </table>	cable lengths	1 x 57 m	for crane with:	radius	50 m		1 x 99 m				
cable lengths	1 x 57 m	for crane with:	radius	50 m							
	1 x 99 m										

**!** **Attention!**  
**A wire cable is a complex machine element.**

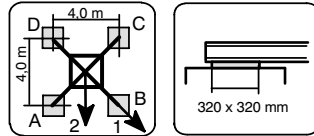
Conventional cable design frequently doesn't meet the requirements of modern rope drives. short service life is the result.





3.2.1.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

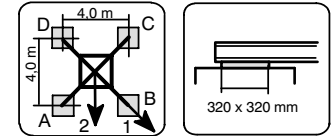


**KR 6 - 40** Corner distance 4,0 m x 4,0 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	30	1	135	271	135	0	16	1	135	205	135	65	29
			2	231	231	39	39		2	185	185	86	86	
13,2	13,6	30	1	131	294	131	0	18	1	109	185	109	34	36
			2	243	243	35	35		2	170	170	107	107	
19,0	19,4	30	1	124	322	124	0	19	1	113	193	113	33	42
			2	256	256	28	28		2	170	170	56	56	
24,7	25,1	35	1	139	356	139	0	21	1	129	215	129	43	48
			2	284	284	32	32		2	190	190	68	68	
30,5	30,9	45	1	176	396	176	0	22	1	187	270	187	103	55
			2	327	327	47	47		2	246	246	128	128	
36,2	36,6	55	1	209	444	209	0	24	1	215	362	215	68	62
			2	372	372	58	58		2	319	319	111	111	

3.2.1.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

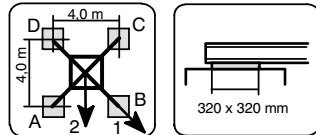


**KR 6 - 40** Corner distance 4,0 m x 4,0 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	30	1	151	260	151	42	17	1	136	191	136	81	30
			2	228	228	74	74		2	175	175	97	97	
13,2	13,6	30	1	154	277	154	32	18	1	110	197	110	23	36
			2	241	241	68	68		2	172	172	48	48	
19,0	19,4	30	1	137	298	137	0	19	1	114	206	114	21	42
			2	256	256	60	60		2	179	179	48	48	
24,7	25,1	30	1	127	331	127	0	21	1	117	216	117	18	49
			2	273	273	50	50		2	187	187	47	47	
30,5	30,9	40	1	164	371	164	0	22	1	175	276	175	74	55
			2	317	317	62	62		2	246	246	104	104	
36,2	36,6	50	1	218	426	218	11	24	1	203	369	203	38	62
			2	365	365	72	72		2	320	320	87	87	

3.2.1.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

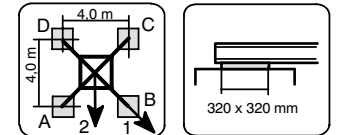


**KR 6 - 40** Corner distance 4,0 m x 4,0 m Jib 30 m

Hook height [m]	Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	30	1	151	261	151	41	17	1	107	193	107	20	30
			2	229	229	73	73		2	171	171	101	101	
13,2	13,6	30	1	154	278	154	31	18	1	110	201	110	20	36
			2	241	241	67	67		2	174	174	46	46	
19,0	19,4	30	1	158	297	158	19	19	1	114	209	114	18	42
			2	256	256	60	60		2	181	181	46	46	
24,7	25,1	30	1	131	325	131	0	21	1	117	219	117	15	49
			2	273	273	50	50		2	189	189	45	45	
30,5	30,9	40	1	190	371	190	9	22	1	175	284	175	66	56
			2	318	318	62	62		2	252	252	98	98	
36,2	36,6	50	1	218	427	218	10	24	1	203	378	203	29	63
			2	366	366	71	71		2	327	327	80	80	

3.2.1.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

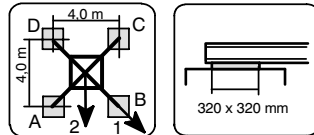


**KR 6 - 40** Corner distance 4,0 m x 4,0 m Jib 32,5 m

Hook height [m]	Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	30	1	152	274	152	29	17	1	107	207	107	8	30
			2	238	238	65	65		2	177	177	37	37	
13,2	13,6	30	1	155	291	155	19	18	1	111	214	111	7	36
			2	251	251	59	59		2	184	184	37	37	
19,0	19,4	30	1	159	311	159	6	20	1	114	223	114	5	43
			2	266	266	51	51		2	191	191	37	37	
24,7	25,1	30	1	152	344	152	0	21	1	118	233	118	2	49
			2	284	284	40	40		2	200	200	36	36	
30,5	30,9	35	1	161	392	161	0	22	1	163	291	163	35	56
			2	317	317	39	39		2	254	254	73	73	
36,2	36,6	45	1	189	449	189	0	24	1	189	388	189	0	63
			2	365	365	48	48		2	329	329	54	54	

3.2.1.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

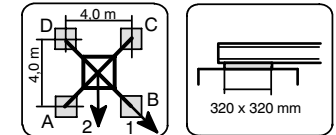


**KR 6 - 40** Corner distance 4,0 m x 4,0 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	25	1	127	263	127	0	17	1	80	222	80	0	30
			2	222	222	36	36		2	174	174	17	17	
13,2	13,6	30	1	145	289	145	1	18	1	107	230	107	0	37
			2	247	247	43	43		2	193	193	30	30	
19,0	19,4	30	1	139	316	139	0	20	1	109	241	109	0	43
			2	260	260	37	37		2	200	200	29	29	
24,7	25,1	30	1	129	351	129	0	21	1	109	255	109	0	50
			2	276	276	28	28		2	209	209	28	28	
30,5	30,9	40	1	165	393	165	0	22	1	181	288	181	73	56
			2	320	320	42	42		2	257	257	104	104	
36,2	36,6	50	1	197	443	197	0	24	1	209	383	209	35	63
			2	366	366	52	52		2	332	332	86	86	

3.2.1.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

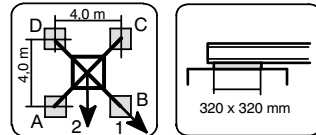


**KR 6 - 40** Corner distance 4,0 m x 4,0 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	30	1	157	263	157	51	17	1	90	254	90	0	31
			2	232	232	82	82		2	198	198	18	18	
13,2	13,6	35	1	173	293	173	53	18	1	117	263	117	0	37
			2	258	258	88	88		2	217	217	31	31	
19,0	19,4	35	1	177	313	177	40	20	1	119	274	119	0	43
			2	273	273	80	80		2	225	225	31	31	
24,7	25,1	40	1	193	349	193	37	21	1	144	288	144	0	50
			2	303	303	82	82		2	246	246	42	42	
30,5	30,9	40	1	196	376	196	16	23	1	181	311	181	51	57
			2	323	323	69	69		2	273	273	89	89	
36,2	36,6	45	1	212	420	212	4	24	1	196	396	196	0	64
			2	359	359	65	65		2	337	337	57	57	

3.2.1.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

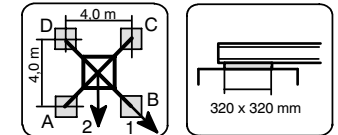


**KR 6 - 40** Corner distance 4,0 m x 4,0 m Jib 40 m

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]	
[m]	[m]			corner loads					corner loads					
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
7,5	7,9	35	1	170	279	170	60	17	1	111	262	111	0	31
			2	247	247	92	92	2	214	214	28	28		
13,2	13,6	35	1	173	296	173	50	18	1	113	271	113	0	37
			2	260	260	86	86	2	220	220	28	28		
19,0	19,4	35	1	177	316	177	37	20	1	115	283	115	0	44
			2	275	275	78	78	2	228	228	28	28		
24,7	25,1	40	1	193	352	193	33	21	1	139	297	139	0	50
			2	305	305	80	80	2	249	249	39	39		
30,5	30,9	40	1	196	379	196	13	23	1	181	321	181	41	57
			2	326	326	66	66	2	280	280	82	82		
36,2	36,6	45	1	212	424	212	0	24	1	186	416	186	0	64
			2	362	362	62	62	2	344	344	50	50		

3.2.1.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

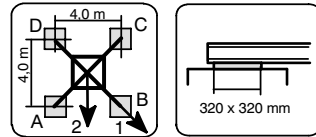


**KR 6 - 40** Corner distance 4,0 m x 4,0 m Jib 42,5 m

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]	
[m]	[m]			corner loads					corner loads					
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
7,5	7,9	40	1	172	303	172	41	17	1	120	297	120	0	31
			2	265	265	80	80	2	239	239	29	29		
13,2	13,6	40	1	176	319	176	33	18	1	122	306	122	0	37
			2	277	277	75	75	2	246	246	29	29		
19,0	19,4	40	1	179	337	179	21	20	1	123	318	123	0	44
			2	291	291	68	68	2	254	254	28	28		
24,7	25,1	45	1	195	371	195	19	21	1	148	333	148	0	51
			2	320	320	71	71	2	275	275	39	39		
30,5	30,9	50	1	211	409	211	13	23	1	170	352	170	0	57
			2	351	351	71	71	2	299	299	123	123		
36,2	36,6	50	1	206	448	206	0	24	1	215	409	215	21	64
			2	374	374	56	56	2	352	352	78	78		

3.2.1.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

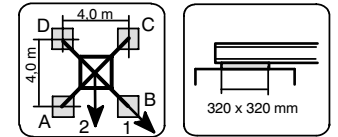


**KR 6 - 40** Corner distance 4,0 m x 4,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	45	1	185	301	185	69	17	1	131	327	131	0	31
			2	269	269	131	131		2	263	263	31	31	
13,2	13,6	45	1	189	317	189	61	18	1	133	336	133	0	38
			2	282	282	125	125		2	270	270	31	31	
19,0	19,4	45	1	207	335	207	79	20	1	134	349	134	0	44
			2	297	297	117	117		2	277	277	30	30	
24,7	25,1	50	1	223	371	223	75	21	1	158	364	158	0	51
			2	328	328	119	119		2	299	299	41	41	
30,5	30,9	55	1	239	411	239	67	23	1	181	383	181	0	58
			2	361	361	118	118		2	327	327	121	121	
36,2	36,6	60	1	255	456	255	54	24	1	240	457	240	23	65
			2	397	397	113	113		2	393	393	87	87	

3.2.1.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

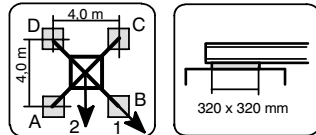


**KR 6 - 40** Corner distance 4,0 m x 4,0 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
7,5	7,9	40	1	188	274	188	103	17	1	117	332	117	0	31
			2	249	249	128	128		2	259	259	24	24	
13,2	13,6	40	1	192	291	192	93	18	1	119	342	119	0	38
			2	262	262	122	122		2	266	266	24	24	
19,0	19,4	45	1	208	323	208	92	20	1	144	356	144	0	44
			2	290	290	126	126		2	287	287	35	35	
24,7	25,1	45	1	211	346	211	76	21	1	143	372	143	0	51
			2	307	307	116	116		2	296	296	33	33	
30,5	30,9	50	1	227	386	227	69	23	1	165	393	165	0	58
			2	339	339	115	115		2	333	333	91	91	
36,2	36,6	50	1	231	418	231	44	24	1	189	486	189	0	65
			2	363	363	99	99		2	388	388	44	44	

3.2.1.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

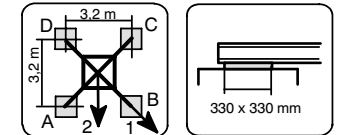


**KR 6 - 40** Corner distance 4,0 m x 4,0 m Jib 50 m

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]	
[m]	[m]			corner loads					corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
7,5	7,9	45	1	186	277	186	95	17	1	137	343	137	0	32
			2	252	252	150	150	2	276	276	32	32		
13,2	13,6	45	1	190	292	190	87	18	1	139	354	139	0	38
			2	265	265	144	144	2	283	283	32	32		
19,0	19,4	45	1	208	310	208	106	20	1	139	367	139	0	45
			2	280	280	136	136	2	291	291	31	31		
24,7	25,1	45	1	212	332	212	91	21	1	137	384	137	0	51
			2	297	297	126	126	2	301	301	29	29		
30,5	30,9	50	1	228	371	228	84	23	1	159	405	159	0	58
			2	329	329	126	126	2	342	342	83	83		
36,2	36,6	55	1	244	415	244	72	24	1	201	513	201	0	65
			2	365	365	122	122	2	410	410	47	47		

3.2.2.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

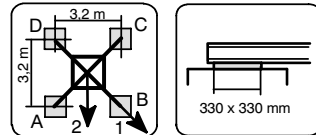


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m Jib 25 m

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]	
[m]	[m]			corner loads					corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	40	1	159	334	159	0	16	1	163	255	163	70	29
			2	281	281	44	44	2	228	228	97	97		
10,8	11,2	40	1	155	355	155	0	18	1	166	234	166	98	34
			2	292	292	40	40	2	214	214	118	118		
15,3	15,7	40	1	150	379	150	0	19	1	140	236	140	44	39
			2	303	303	35	35	2	208	208	72	72		
19,8	20,2	40	1	143	406	143	0	20	1	143	245	143	42	45
			2	316	316	29	29	2	215	215	72	72		
24,3	24,7	45	1	159	437	159	0	21	1	159	267	159	51	50
			2	343	343	34	34	2	235	235	83	83		
28,8	29,2	55	1	197	472	197	0	22	1	217	311	217	122	56
			2	384	384	50	50	2	283	283	150	150		
33,3	33,7	65	1	234	512	234	0	24	1	245	399	245	91	62
			2	426	426	64	64	2	354	354	136	136		
37,8	38,2	80	1	286	564	286	7	25	1	286	508	286	63	68
			2	483	483	89	89	2	443	443	128	128		
42,3	42,7	95	1	327	630	327	23	26	1	327	627	327	26	74
			2	541	541	112	112	2	539	539	114	114		

3.2.2.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

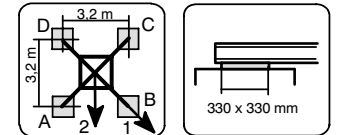


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	40	1	163	316	163	11	16	1	163	237	163	89	29
			2	273	273	84	84		2	216	216	111	111	
10,8	11,2	40	1	167	330	167	4	18	1	137	244	137	31	34
			2	285	285	79	79		2	213	213	62	62	
15,3	15,7	40	1	166	349	166	0	19	1	141	252	141	30	40
			2	297	297	72	72		2	219	219	62	62	
19,8	20,2	40	1	158	376	158	0	20	1	144	260	144	27	45
			2	312	312	65	65		2	226	226	62	62	
24,3	24,7	40	1	150	407	150	0	21	1	147	270	147	25	51
			2	327	327	56	56		2	234	234	60	60	
28,8	29,2	50	1	189	442	189	0	23	1	205	320	205	90	56
			2	370	370	70	70		2	286	286	123	123	
33,3	33,7	60	1	248	482	248	14	24	1	233	408	233	58	62
			2	414	414	83	83		2	357	357	109	109	
37,8	38,2	75	1	289	548	289	30	25	1	274	519	274	29	68
			2	472	472	106	106		2	447	447	101	101	
42,3	42,7	90	1	330	616	330	43	26	1	306	647	306	0	74
			2	532	532	127	127		2	544	544	86	86	

3.2.2.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive



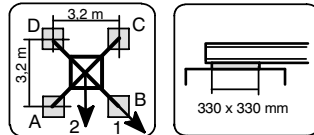
**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 30 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	40	1	179	313	179	44	16	1	134	241	134	27	29
			2	273	273	84	84		2	210	210	117	117	
10,8	11,2	40	1	182	328	182	35	18	1	137	248	137	27	34
			2	285	285	78	78		2	216	216	59	59	
15,3	15,7	40	1	185	345	185	25	19	1	141	256	141	25	40
			2	298	298	72	72		2	222	222	59	59	
19,8	20,2	40	1	163	369	163	0	20	1	144	265	144	23	45
			2	313	313	64	64		2	229	229	59	59	
24,3	24,7	40	1	154	399	154	0	21	1	147	274	147	20	51
			2	328	328	55	55		2	237	237	57	57	
28,8	29,2	50	1	193	434	193	0	23	1	205	330	205	80	57
			2	371	371	69	69		2	293	293	117	117	
33,3	33,7	60	1	248	483	248	13	24	1	233	419	233	48	62
			2	415	415	82	82		2	364	364	102	102	
37,8	38,2	75	1	289	549	289	29	25	1	274	529	274	18	68
			2	473	473	105	105		2	455	455	93	93	
42,3	42,7	90	1	330	618	330	42	26	1	295	670	295	0	75
			2	533	533	126	126		2	552	552	78	78	



3.2.2.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

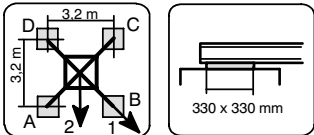


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: <b>125 kNm</b>					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	45	1	192	342	192	41	17	1	147	271	147	24	29		
			2	298	298	85	85		2	235	235	60	60			
10,8	11,2	45	1	195	357	195	32	18	1	151	278	151	23	35		
			2	310	310	80	80		2	240	240	61	61			
15,3	15,7	45	1	198	375	198	22	19	1	154	286	154	22	40		
			2	323	323	73	73		2	247	247	61	61			
19,8	20,2	45	1	201	394	201	9	20	1	157	294	157	20	46		
			2	338	338	65	65		2	254	254	60	60			
24,3	24,7	45	1	200	420	200	0	22	1	160	304	160	17	51		
			2	354	354	56	56		2	262	262	59	59			
28,8	29,2	45	1	186	461	186	0	23	1	193	341	193	45	57		
			2	371	371	45	45		2	297	297	89	89			
33,3	33,7	55	1	220	506	220	0	24	1	221	430	221	12	63		
			2	415	415	57	57		2	369	369	73	73			
37,8	38,2	70	1	276	557	276	0	25	1	245	560	245	0	69		
			2	474	474	80	80		2	460	460	64	64			
42,3	42,7	80	1	304	614	304	0	26	1	220	721	220	0	75		
			2	523	523	88	88		2	545	545	35	35			

3.2.2.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

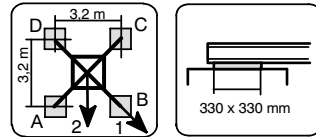


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: <b>125 kNm</b>					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	35	1	151	324	151	0	17	1	108	275	108	0	30		
			2	271	271	42	42		2	220	220	25	25			
10,8	11,2	35	1	147	345	147	0	18	1	111	283	111	0	35		
			2	282	282	38	38		2	226	226	26	26			
15,3	15,7	35	1	142	370	142	0	19	1	112	293	112	0	40		
			2	294	294	32	32		2	233	233	26	26			
19,8	20,2	40	1	159	398	159	0	20	1	138	304	138	0	46		
			2	320	320	38	38		2	253	253	37	37			
24,3	24,7	40	1	150	430	150	0	22	1	138	317	138	0	52		
			2	334	334	30	30		2	261	261	36	36			
28,8	29,2	50	1	188	466	188	0	23	1	177	343	177	10	57		
			2	375	375	45	45		2	297	297	124	124			
33,3	33,7	60	1	224	507	224	0	24	1	239	424	239	54	63		
			2	418	418	59	59		2	369	369	108	108			
37,8	38,2	75	1	280	556	280	3	25	1	280	536	280	23	69		
			2	475	475	84	84		2	461	461	98	98			
42,3	42,7	90	1	320	623	320	18	26	1	304	674	304	0	75		
			2	534	534	106	106		2	559	559	82	82			

3.2.2.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

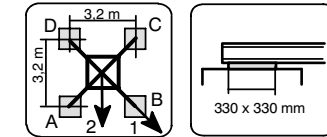


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 37,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☾			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	40	1	185	314	185	55	17	1	114	316	114	0	30
			2	276	276	93	93		2	248	248	24	24	
10,8	11,2	40	1	188	330	188	46	18	1	117	323	117	0	35
			2	288	288	87	87		2	254	254	25	25	
15,3	15,7	45	1	204	360	204	48	19	1	143	333	143	0	41
			2	314	314	93	93		2	273	273	37	37	
19,8	20,2	45	1	207	379	207	35	20	1	144	345	144	0	46
			2	329	329	85	85		2	280	280	36	36	
24,3	24,7	50	1	223	413	223	33	22	1	169	358	169	0	52
			2	357	357	88	88		2	301	301	47	47	
28,8	29,2	50	1	226	436	226	16	23	1	168	374	168	0	58
			2	375	375	77	77		2	317	317	105	105	
33,3	33,7	55	1	242	475	242	9	24	1	227	439	227	14	64
			2	407	407	77	77		2	377	377	77	77	
37,8	38,2	70	1	283	541	283	24	25	1	251	569	251	0	69
			2	465	465	100	100		2	469	469	66	66	
42,3	42,7	85	1	323	611	323	36	27	1	250	734	250	0	76
			2	527	527	120	120		2	568	568	49	49	

3.2.2.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

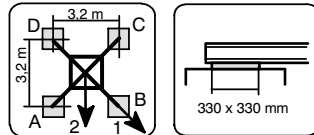


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 40 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☾			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	40	1	185	318	185	51	17	1	109	326	109	0	30
			2	279	279	90	90		2	251	251	20	20	
10,8	11,2	45	1	200	346	200	54	18	1	137	334	137	0	36
			2	304	304	97	97		2	270	270	33	33	
15,3	15,7	45	1	204	364	204	44	19	1	138	344	138	0	41
			2	317	317	90	90		2	277	277	33	33	
19,8	20,2	50	1	219	396	219	43	20	1	164	356	164	0	47
			2	344	344	95	95		2	297	297	45	45	
24,3	24,7	50	1	223	417	223	28	22	1	164	369	164	0	52
			2	360	360	85	85		2	305	305	43	43	
28,8	29,2	55	1	238	453	238	24	23	1	187	385	187	0	58
			2	390	390	87	87		2	337	337	110	110	
33,3	33,7	55	1	242	479	242	4	24	1	227	451	227	3	64
			2	410	410	74	74		2	385	385	68	68	
37,8	38,2	65	1	270	533	270	7	25	1	214	593	214	0	70
			2	456	456	84	84		2	465	465	45	45	
42,3	42,7	85	1	323	615	323	31	27	1	237	760	237	0	76
			2	530	530	117	117		2	577	577	40	40	

3.2.2.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

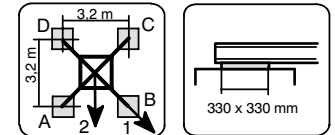


KR 7 - 32 / KRV 7 - 32 Corner distance 3,2 m x 3,2 m Jib 42,5 m

Table with columns for Hook height, center ballast, jib position, crane in service torque moment (125 kNm), crane out of service (wind region C25), and horizontal force. It includes corner load data for points A, B, C, and D.

3.2.2.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

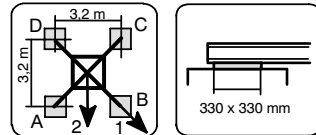


KR 7 - 32 / KRV 7 - 32 Corner distance 3,2 m x 3,2 m Jib 45 m

Table with columns for Hook height, center ballast, jib position, crane in service torque moment (125 kNm), crane out of service (wind region C25), and horizontal force. It includes corner load data for points A, B, C, and D.

3.2.2.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

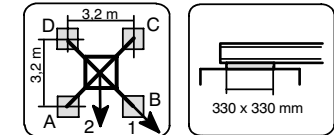


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 47,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
[m]	[m]			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	55	1	228	332	228	125	17	1	156	414	156	0	31
			2	302	302	155	155		2	328	328	35	35	
10,8	11,2	55	1	232	348	232	115	18	1	159	422	159	0	36
			2	314	314	149	149		2	334	334	35	35	
15,3	15,7	55	1	235	365	235	105	19	1	160	433	160	0	42
			2	327	327	143	143		2	341	341	35	35	
19,8	20,2	55	1	238	385	238	92	21	1	160	445	160	0	47
			2	342	342	135	135		2	349	349	34	34	
24,3	24,7	60	1	254	418	254	90	22	1	184	460	184	0	53
			2	370	370	138	138		2	370	370	44	44	
28,8	29,2	60	1	257	442	257	73	23	1	182	477	182	0	59
			2	388	388	127	127		2	382	382	103	103	
33,3	33,7	65	1	273	480	273	66	24	1	254	525	254	0	65
			2	419	419	127	127		2	444	444	72	72	
37,8	38,2	70	1	289	521	289	56	25	1	210	675	210	0	71
			2	453	453	125	125		2	513	513	35	35	
42,3	42,7	95	1	355	616	355	94	27	1	256	848	256	0	77
			2	539	539	170	170		2	640	640	40	40	

3.2.2.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

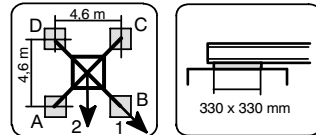


**KR 7 - 32 / KRV 7 - 32** Corner distance 3,2 m x 3,2 m **Jib 50 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
[m]	[m]			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	55	1	214	325	214	102	17	1	150	427	150	0	31
			2	292	292	135	135		2	333	333	30	30	
10,8	11,2	55	1	217	339	217	95	18	1	152	436	152	0	37
			2	303	303	131	131		2	339	339	31	31	
15,3	15,7	60	1	233	367	233	99	19	1	178	447	178	0	42
			2	328	328	167	167		2	359	359	43	43	
19,8	20,2	60	1	236	384	236	88	21	1	178	460	178	0	48
			2	342	342	159	159		2	367	367	41	41	
24,3	24,7	60	1	239	403	239	75	22	1	177	475	177	0	53
			2	358	358	150	150		2	375	375	39	39	
28,8	29,2	65	1	270	437	270	103	23	1	200	492	200	0	59
			2	388	388	152	152		2	405	405	105	105	
33,3	33,7	65	1	273	462	273	84	24	1	239	556	239	0	65
			2	407	407	139	139		2	455	455	62	62	
37,8	38,2	75	1	302	516	302	87	26	1	219	708	219	0	71
			2	453	453	150	150		2	537	537	36	36	
42,3	42,7	100	1	367	610	367	125	27	1	263	883	263	0	77
			2	539	539	196	196		2	665	665	40	40	

3.2.3.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

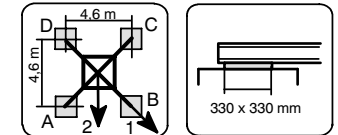


**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,4	6,8	20	1	113	233	113	0	16	1	115	179	115	51	29
			2	197	197	32	32		2	160	160	70	70	
10,9	11,3	20	1	113	247	113	0	18	1	118	165	118	71	34
			2	206	206	31	31		2	151	151	85	85	
15,4	15,8	20	1	111	264	111	0	19	1	92	159	92	25	40
			2	215	215	28	28		2	140	140	103	103	
19,9	20,3	20	1	108	283	108	0	20	1	95	166	95	25	45
			2	225	225	24	24		2	145	145	45	45	
24,4	24,8	25	1	129	304	129	0	21	1	111	186	111	36	51
			2	248	248	33	33		2	164	164	58	58	
28,9	29,3	30	1	148	329	148	0	22	1	156	223	156	90	56
			2	273	273	40	40		2	203	203	109	109	
33,4	33,8	35	1	166	356	166	0	24	1	172	280	172	64	62
			2	298	298	46	46		2	249	249	95	95	
37,9	38,3	45	1	200	394	200	6	25	1	200	356	200	44	68
			2	337	337	63	63		2	311	311	90	90	
42,4	42,8	55	1	229	440	228	17	26	1	229	439	228	18	74
			2	378	378	79	79		2	377	377	80	80	
46,9	47,3	65	1	258	487	258	29	28	1	245	542	245	0	81
			2	420	420	96	96		2	450	450	66	66	
51,4	51,8	75	1	287	536	287	38	29	1	235	679	235	0	87
			2	463	463	141	141		2	527	527	47	47	

3.2.3.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

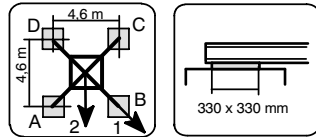


**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,4	6,8	20	1	130	223	130	37	16	1	115	166	115	64	29
			2	196	196	65	65		2	152	152	79	79	
10,9	11,3	20	1	134	235	134	32	18	1	89	164	89	15	34
			2	205	205	62	62		2	143	143	95	95	
15,4	15,8	20	1	137	248	137	26	19	1	93	170	93	15	40
			2	215	215	58	58		2	147	147	38	38	
19,9	20,3	20	1	140	262	140	18	20	1	96	177	96	15	45
			2	226	226	54	54		2	153	153	39	39	
24,4	24,8	20	1	115	284	115	0	21	1	99	185	99	14	51
			2	238	238	49	49		2	160	160	97	97	
28,9	29,3	25	1	135	308	135	0	23	1	144	225	144	63	57
			2	264	264	55	55		2	202	202	87	87	
33,4	33,8	35	1	188	351	188	24	24	1	173	296	173	49	63
			2	303	303	72	72		2	260	260	85	85	
37,9	38,3	40	1	203	384	203	23	25	1	188	360	188	17	68
			2	331	331	76	76		2	310	310	67	67	
42,4	42,8	50	1	232	431	232	32	26	1	207	453	207	0	75
			2	373	373	90	90		2	377	377	56	56	
46,9	47,3	60	1	261	481	261	41	28	1	205	575	205	0	81
			2	416	416	106	106		2	450	450	42	42	
51,4	51,8	75	1	303	545	303	61	29	1	219	714	219	0	88
			2	474	474	131	131		2	540	540	35	35	

3.2.3.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

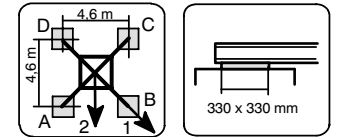


KR 8 - 46 / KRV 7 - 32/46 Corner distance 4,6 m x 4,6 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,4	6,8	20	1	131	224	131	37	16	1	116	161	116	70	29		
			2	197	197	64	64		2	148	148	83	83			
10,9	11,3	20	1	134	236	134	32	18	1	89	167	89	12	35		
			2	206	206	62	62		2	144	144	35	35			
15,4	15,8	20	1	137	249	137	25	19	1	93	173	93	12	40		
			2	216	216	58	58		2	150	150	36	36			
19,9	20,3	20	1	140	263	140	18	20	1	96	180	96	12	46		
			2	227	227	54	54		2	155	155	37	37			
24,4	24,8	20	1	144	278	144	9	21	1	99	188	99	11	51		
			2	239	239	48	48		2	165	165	93	93			
28,9	29,3	25	1	159	308	159	11	23	1	144	232	144	57	57		
			2	264	264	54	54		2	206	206	82	82			
33,4	33,8	30	1	175	339	175	11	24	1	160	290	160	30	63		
			2	291	291	59	59		2	252	252	68	68			
37,9	38,3	40	1	203	385	203	22	25	1	188	367	188	10	69		
			2	332	332	75	75		2	315	315	62	62			
42,4	42,8	50	1	232	433	232	31	26	1	199	469	199	0	75		
			2	374	374	90	90		2	383	383	51	51			
46,9	47,3	60	1	261	482	261	40	28	1	197	592	197	0	81		
			2	417	417	105	105		2	456	456	37	37			
51,4	51,8	80	1	315	559	315	72	29	1	236	731	235	0	88		
			2	488	488	143	143		2	559	559	42	42			

3.2.3.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

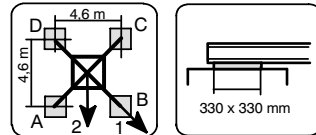


KR 8 - 46 / KRV 7 - 32/46 Corner distance 4,6 m x 4,6 m Jib 32,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,4	6,8	20	1	131	236	131	26	17	1	87	173	87	1	30		
			2	205	205	57	57		2	148	148	26	26			
10,9	11,3	20	1	134	248	134	21	18	1	90	179	90	1	35		
			2	214	214	54	54		2	153	153	27	27			
15,4	15,8	20	1	138	261	138	15	19	1	93	185	93	2	40		
			2	225	225	51	51		2	158	158	28	28			
19,9	20,3	20	1	141	275	141	7	20	1	97	192	97	1	46		
			2	236	236	46	46		2	164	164	29	29			
24,4	24,8	20	1	142	293	142	0	22	1	100	200	100	0	52		
			2	248	248	40	40		2	176	176	82	82			
28,9	29,3	20	1	135	321	135	0	23	1	133	236	132	29	57		
			2	261	261	34	34		2	206	206	59	59			
33,4	33,8	30	1	176	353	175	0	24	1	161	307	161	14	63		
			2	301	301	51	51		2	264	264	57	57			
37,9	38,3	35	1	189	388	189	0	25	1	158	392	158	0	69		
			2	329	329	54	54		2	315	315	38	38			
42,4	42,8	45	1	220	434	220	6	26	1	158	504	158	0	75		
			2	371	371	68	68		2	383	383	26	26			
46,9	47,3	65	1	274	509	274	39	28	1	204	629	204	0	82		
			2	440	440	108	108		2	482	482	37	37			
51,4	51,8	85	1	329	587	328	70	29	1	242	770	242	0	88		
			2	511	511	146	146		2	586	586	41	41			

3.2.3.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

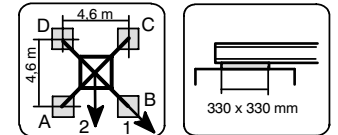


**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,4	6,8	20	1	121	234	121	8	17	1	79	192	79	0	30
			2	201	201	41	41		2	156	156	86	86	
10,9	11,3	20	1	124	245	124	4	18	1	83	197	83	0	35
			2	210	210	39	39		2	160	160	21	21	
15,4	15,8	20	1	127	258	127	0	19	1	86	204	86	0	41
			2	219	219	36	36		2	166	166	22	22	
19,9	20,3	20	1	123	277	123	0	20	1	89	212	89	0	46
			2	229	229	33	33		2	172	172	22	22	
24,4	24,8	25	1	144	300	144	0	22	1	113	223	113	2	52
			2	253	253	41	41		2	191	191	35	35	
28,9	29,3	25	1	138	325	138	0	23	1	150	236	150	63	58
			2	265	265	35	35		2	211	211	89	89	
33,4	33,8	30	1	155	353	155	0	24	1	166	295	166	36	64
			2	291	291	41	41		2	257	257	74	74	
37,9	38,3	40	1	194	387	194	1	25	1	194	373	194	15	69
			2	330	330	58	58		2	321	321	67	67	
42,4	42,8	50	1	222	433	222	12	26	1	209	472	209	0	76
			2	371	371	104	104		2	389	389	55	55	
46,9	47,3	60	1	252	481	252	22	28	1	205	597	205	0	82
			2	415	415	119	119		2	463	463	40	40	
51,4	51,8	75	1	294	544	293	43	29	1	218	740	217	0	89
			2	473	473	144	144		2	555	555	32	32	

3.2.3.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

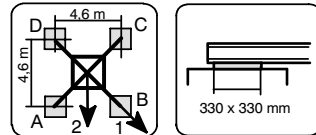


**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,4	6,8	25	1	149	240	149	59	17	1	91	220	91	0	30
			2	213	213	85	85		2	178	178	23	23	
10,9	11,3	25	1	152	252	152	53	18	1	95	225	95	0	36
			2	223	223	82	82		2	183	183	24	24	
15,4	15,8	25	1	156	265	156	47	19	1	98	232	98	0	41
			2	233	233	79	79		2	189	189	25	25	
19,9	20,3	25	1	159	279	159	39	20	1	101	240	101	0	47
			2	244	244	74	74		2	195	195	25	25	
24,4	24,8	25	1	162	295	162	30	22	1	103	249	102	0	52
			2	256	256	69	69		2	202	202	25	25	
28,9	29,3	30	1	178	325	178	31	23	1	163	268	163	58	58
			2	282	282	74	74		2	237	237	89	89	
33,4	33,8	30	1	181	344	181	19	24	1	166	315	166	17	64
			2	296	296	66	66		2	272	272	61	61	
37,9	38,3	35	1	197	377	197	17	25	1	166	398	165	0	70
			2	325	325	70	70		2	323	323	41	41	
42,4	42,8	45	1	225	426	225	25	27	1	165	513	164	0	76
			2	367	367	84	84		2	392	392	29	29	
46,9	47,3	65	1	280	501	280	59	28	1	210	640	210	0	83
			2	436	436	123	123		2	491	491	38	38	
51,4	51,8	85	1	334	578	334	90	29	1	246	785	246	0	89
			2	507	507	161	161		2	597	597	41	41	

3.2.3.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

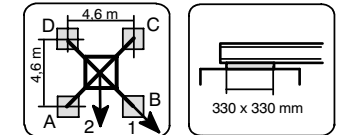


**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads				jib position			corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]	
6,4	6,8	25	1	149	242	149	56	17	1	88	227	88	0	30	
			2	215	215	83	83		2	181	181	20	20		
10,9	11,3	25	1	152	254	152	51	18	1	91	233	91	0	36	
			2	224	224	80	80		2	186	186	21	21		
15,4	15,8	25	1	156	267	156	44	19	1	95	239	95	0	41	
			2	235	235	77	77		2	192	192	22	22		
19,9	20,3	25	1	159	282	159	36	20	1	97	247	97	0	47	
			2	246	246	72	72		2	198	198	23	23		
24,4	24,8	30	1	175	310	175	39	22	1	124	257	124	0	52	
			2	270	270	79	79		2	217	217	35	35		
28,9	29,3	30	1	178	328	178	28	23	1	163	276	163	50	58	
			2	284	284	72	72		2	243	243	83	83		
33,4	33,8	30	1	181	347	181	16	24	1	166	323	166	9	64	
			2	298	298	64	64		2	277	277	55	55		
37,9	38,3	35	1	197	381	197	13	25	1	157	415	157	0	70	
			2	327	327	67	67		2	329	329	35	35		
42,4	42,8	45	1	225	429	225	22	27	1	155	531	155	0	76	
			2	369	369	81	81		2	398	398	22	22		
46,9	47,3	65	1	280	504	280	55	28	1	200	659	200	0	83	
			2	439	439	121	121		2	498	498	31	31		
51,4	51,8	85	1	334	582	334	86	29	1	236	805	236	0	89	
			2	509	509	159	159		2	604	604	34	34		

3.2.3.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive



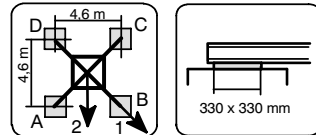
**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads				jib position			corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]	
6,4	6,8	30	1	152	264	152	40	17	1	99	257	99	0	31	
			2	231	231	73	73		2	205	205	22	22		
10,9	11,3	30	1	155	275	155	35	18	1	103	263	103	0	36	
			2	240	240	70	70		2	210	210	24	24		
15,4	15,8	30	1	158	287	158	30	19	1	106	270	106	0	42	
			2	249	249	68	68		2	216	216	25	25		
19,9	20,3	30	1	162	300	162	23	20	1	108	278	108	0	47	
			2	260	260	64	64		2	222	222	25	25		
24,4	24,8	35	1	178	328	177	27	22	1	135	288	135	0	53	
			2	284	284	71	71		2	241	241	37	37		
28,9	29,3	35	1	181	344	181	18	23	1	136	299	136	0	59	
			2	296	296	65	65		2	251	251	110	110		
33,4	33,8	35	1	184	362	184	6	24	1	184	328	184	40	64	
			2	310	310	58	58		2	286	286	82	82		
37,9	38,3	40	1	200	394	200	6	25	1	200	395	200	4	70	
			2	337	337	63	63		2	338	338	62	62		
42,4	42,8	50	1	228	441	228	15	27	1	203	508	203	0	77	
			2	379	379	78	78		2	408	408	48	48		
46,9	47,3	60	1	258	490	257	26	28	1	197	637	197	0	83	
			2	422	422	93	93		2	483	483	32	32		
51,4	51,8	80	1	312	565	312	58	29	1	232	784	232	0	90	
			2	491	491	132	132		2	589	589	34	34		



3.2.3.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

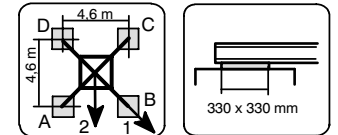


**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: <b>125 kNm</b>					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,4	6,8	35	1	165	264	165	65	17	1	112	283	112	0	31		
			2	238	238	121	121		2	227	227	26	26			
10,9	11,3	35	1	168	275	168	61	18	1	115	289	115	0	36		
			2	248	248	118	118		2	232	232	28	28			
15,4	15,8	35	1	186	288	186	85	19	1	118	296	118	0	42		
			2	258	258	114	114		2	238	238	28	28			
19,9	20,3	35	1	189	302	189	77	21	1	121	304	121	0	47		
			2	269	269	110	110		2	244	244	29	29			
24,4	24,8	40	1	205	331	205	80	22	1	147	314	147	0	53		
			2	294	294	117	117		2	263	263	41	41			
28,9	29,3	40	1	209	348	208	69	23	1	148	326	148	0	59		
			2	307	307	110	110		2	277	277	110	110			
33,4	33,8	40	1	212	367	212	56	24	1	197	359	197	34	65		
			2	322	322	102	102		2	312	312	82	82			
37,9	38,3	45	1	228	401	228	54	26	1	211	428	211	0	71		
			2	350	350	105	105		2	364	364	61	61			
42,4	42,8	50	1	243	437	243	49	27	1	183	547	183	0	77		
			2	381	381	106	106		2	422	422	35	35			
46,9	47,3	65	1	285	500	285	70	28	1	202	678	201	0	84		
			2	437	437	133	133		2	510	510	30	30			
51,4	51,8	90	1	352	591	352	113	29	1	261	827	261	0	90		
			2	521	521	183	183		2	630	630	44	44			

3.2.3.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

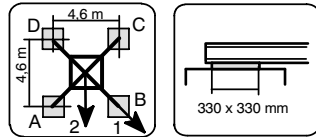


**KR 8 - 46 / KRV 7 - 32/46** Corner distance 4,6 m x 4,6 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: <b>125 kNm</b>					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,4	6,8	30	1	168	240	168	95	17	1	98	288	98	0	31		
			2	219	219	117	117		2	223	223	19	19			
10,9	11,3	30	1	171	252	171	90	18	1	102	294	102	0	36		
			2	229	229	114	114		2	228	228	20	20			
15,4	15,8	30	1	175	265	174	84	19	1	105	301	105	0	42		
			2	239	239	110	110		2	234	234	21	21			
19,9	20,3	35	1	190	292	190	88	21	1	132	310	132	0	47		
			2	262	262	118	118		2	253	253	34	34			
24,4	24,8	35	1	194	308	194	79	22	1	133	320	133	0	53		
			2	275	275	113	113		2	260	260	33	33			
28,9	29,3	35	1	197	325	197	68	23	1	134	332	134	0	59		
			2	288	288	106	106		2	280	280	84	84			
33,4	33,8	35	1	200	344	200	56	24	1	185	369	185	1	65		
			2	302	302	98	98		2	315	315	55	55			
37,9	38,3	40	1	216	378	216	54	25	1	166	472	166	0	71		
			2	330	330	101	101		2	368	368	34	34			
42,4	42,8	55	1	257	439	257	75	27	1	187	592	187	0	77		
			2	385	385	128	128		2	451	451	32	32			
46,9	47,3	75	1	311	514	311	108	28	1	230	725	230	0	84		
			2	455	455	168	168		2	553	553	40	40			
51,4	51,8	95	1	365	591	365	139	29	1	264	875	263	0	90		
			2	525	525	205	205		2	660	660	41	41			

3.2.3.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

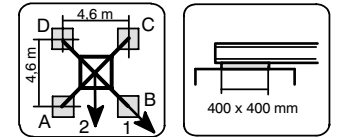


KR 8 - 46 / KRV 7 - 32/46 Corner distance 4,6 m x 4,6 m Jib 50 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,4	6,8	35	1	166	243	166	88	17	1	119	297	119	0	31		
			2	224	224	138	138		2	239	239	28	28			
10,9	11,3	35	1	169	254	169	84	18	1	122	303	122	0	37		
			2	233	233	135	135		2	244	244	29	29			
15,4	15,8	35	1	187	266	187	108	19	1	125	311	125	0	42		
			2	243	243	131	131		2	250	250	30	30			
19,9	20,3	35	1	190	281	190	100	21	1	127	320	127	0	48		
			2	254	254	127	127		2	257	257	30	30			
24,4	24,8	35	1	194	296	194	91	22	1	128	330	128	0	54		
			2	266	266	121	121		2	264	264	30	30			
28,9	29,3	35	1	197	313	197	80	23	1	129	343	129	0	60		
			2	279	279	115	115		2	287	287	77	77			
33,4	33,8	40	1	213	345	213	81	24	1	198	392	198	3	65		
			2	306	306	119	119		2	335	335	60	60			
37,9	38,3	40	1	216	365	216	67	26	1	155	495	155	0	71		
			2	322	322	110	110		2	376	376	26	26			
42,4	42,8	55	1	257	426	257	88	27	1	175	617	175	0	78		
			2	376	376	137	137		2	460	460	23	23			
46,9	47,3	75	1	311	501	311	122	28	1	217	751	217	0	84		
			2	445	445	177	177		2	562	562	30	30			
51,4	51,8	100	1	378	590	378	166	30	1	275	904	274	0	91		
			2	528	528	228	228		2	683	683	43	43			

3.2.4.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

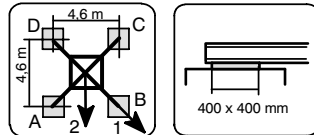


KR 10 - 46/60 Corner distance 4,6 m x 4,6 m Jib 25 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	15	1	106	265	106	0	19	1	90	157	90	22	42		
			2	213	213	25	25		2	137	137	42	42			
20,2	20,6	15	1	103	284	103	0	21	1	93	164	93	22	48		
			2	223	223	22	22		2	143	143	43	43			
24,7	25,1	20	1	124	305	124	0	22	1	109	184	109	33	53		
			2	246	246	30	30		2	162	162	114	114			
29,2	29,6	25	1	144	329	144	0	23	1	154	224	154	83	59		
			2	270	270	37	37		2	204	204	104	104			
33,7	34,1	35	1	182	360	182	4	24	1	182	294	182	70	65		
			2	308	308	56	56		2	261	261	103	103			
38,2	38,6	40	1	198	391	198	5	26	1	198	357	198	39	71		
			2	334	334	62	62		2	311	311	85	85			
42,7	43,1	50	1	226	436	226	17	27	1	226	439	226	13	77		
			2	374	374	78	78		2	377	377	76	76			
47,2	47,6	60	1	255	483	254	26	28	1	236	547	236	0	83		
			2	416	416	93	93		2	448	448	61	61			
51,7	52,1	75	1	295	544	295	46	29	1	249	685	248	0	89		
			2	471	471	150	150		2	538	538	53	53			

3.2.4.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

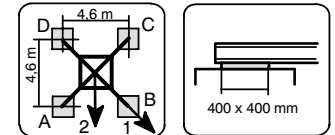


KR 10 - 46/60	Corner distance 4,6 m x 4,6 m	Jib 27,5 m
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Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	10	1	92	245	92	0	19	1	78	156	78	0	42
			2	201	201	43	43		2	133	133	23	23	
20,2	20,6	10	1	90	263	90	0	21	1	81	163	81	0	48
			2	212	212	39	39		2	139	139	24	24	
24,7	25,1	15	1	111	284	111	0	22	1	97	183	97	11	53
			2	236	236	46	46		2	160	160	92	92	
29,2	29,6	20	1	130	308	130	0	23	1	142	227	142	57	59
			2	261	261	53	53		2	202	202	82	82	
33,7	34,1	30	1	185	348	185	23	24	1	170	297	170	44	65
			2	300	300	70	70		2	260	260	81	81	
38,2	38,6	40	1	214	393	214	35	26	1	199	373	199	24	71
			2	340	340	87	87		2	322	322	75	75	
42,7	43,1	45	1	229	427	229	32	27	1	200	457	200	0	77
			2	369	369	90	90		2	376	376	52	52	
47,2	47,6	60	1	270	488	270	52	28	1	220	580	220	0	83
			2	425	425	116	116		2	461	461	50	50	
51,7	52,1	75	1	311	553	311	69	29	1	232	719	232	0	89
			2	482	482	140	140		2	550	550	41	41	

3.2.4.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

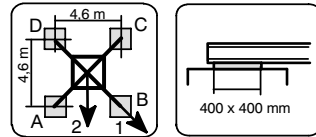


KR 10 - 46/60	Corner distance 4,6 m x 4,6 m	Jib 30 m
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Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	10	1	95	239	95	0	20	1	76	161	76	0	43
			2	202	202	43	43		2	135	135	21	21	
20,2	20,6	10	1	93	258	92	0	21	1	79	168	78	0	48
			2	213	213	39	39		2	141	141	22	22	
24,7	25,1	15	1	114	279	114	0	22	1	97	186	97	8	54
			2	237	237	46	46		2	165	165	88	88	
29,2	29,6	20	1	157	306	157	9	23	1	142	234	142	51	59
			2	262	262	52	52		2	207	207	78	78	
33,7	34,1	30	1	185	349	185	22	24	1	170	304	170	37	65
			2	301	301	70	70		2	265	265	76	76	
38,2	38,6	35	1	201	381	201	21	26	1	186	368	186	4	71
			2	329	329	74	74		2	315	315	58	58	
42,7	43,1	45	1	230	428	229	31	27	1	193	473	193	0	77
			2	370	370	89	89		2	382	382	47	47	
47,2	47,6	55	1	258	477	258	38	28	1	187	597	187	0	83
			2	413	413	103	103		2	454	454	32	32	
51,7	52,1	75	1	311	554	311	68	29	1	224	737	224	0	90
			2	483	483	139	139		2	557	557	35	35	

3.2.4.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

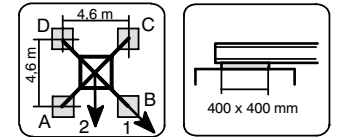


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in serviceb torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	15	1	135	259	135	12	20	1	90	184	90	0	43
			2	223	223	48	48		2	156	156	26	26	
20,2	20,6	15	1	139	273	139	4	21	1	93	192	93	0	48
			2	234	234	44	44		2	162	162	26	26	
24,7	25,1	15	1	138	293	138	0	22	1	95	200	95	0	54
			2	246	246	38	38		2	176	176	78	78	
29,2	29,6	15	1	131	320	131	0	23	1	130	237	130	23	60
			2	259	259	32	32		2	206	206	55	55	
33,7	34,1	25	1	172	351	172	0	25	1	159	308	158	9	66
			2	298	298	49	49		2	265	265	53	53	
38,2	38,6	35	1	202	395	202	9	26	1	175	397	175	0	72
			2	338	338	65	65		2	327	327	46	46	
42,7	43,1	40	1	218	429	218	6	27	1	151	508	151	0	78
			2	367	367	68	68		2	382	382	23	23	
47,2	47,6	60	1	271	504	271	38	28	1	195	634	195	0	84
			2	436	436	106	106		2	480	480	32	32	
51,7	52,1	80	1	324	581	324	67	30	1	231	776	231	0	90
			2	506	506	142	142		2	584	584	35	35	

3.2.4.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

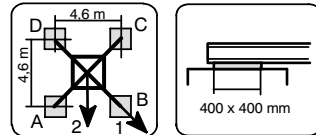


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in serviceb torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	15	1	122	259	122	0	20	1	81	204	81	0	43
			2	217	217	34	34		2	164	164	19	19	
20,2	20,6	20	1	141	280	141	2	21	1	107	214	107	1	49
			2	240	240	43	43		2	182	182	32	32	
24,7	25,1	20	1	139	300	139	0	22	1	111	221	111	0	54
			2	251	251	38	38		2	189	189	32	32	
29,2	29,6	20	1	134	324	133	0	23	1	148	238	148	58	60
			2	263	263	33	33		2	211	211	84	84	
33,7	34,1	30	1	176	352	176	0	25	1	176	309	176	43	66
			2	301	301	51	51		2	270	270	82	82	
38,2	38,6	35	1	192	383	192	0	26	1	192	374	192	10	72
			2	327	327	56	56		2	321	321	63	63	
42,7	43,1	45	1	220	429	220	11	27	1	203	475	203	0	78
			2	368	368	72	72		2	388	388	52	52	
47,2	47,6	60	1	261	489	261	33	28	1	221	602	221	0	84
			2	423	423	129	129		2	474	474	48	48	
51,7	52,1	75	1	302	551	302	52	29	1	231	745	231	0	90
			2	480	480	153	153		2	565	565	38	38	

3.2.4.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

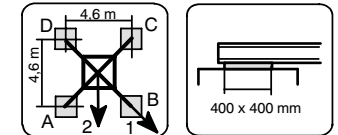


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in serviceb torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	20	1	153	263	153	44	20	1	93	233	93	0	43
			2	231	231	76	76		2	187	187	22	22	
20,2	20,6	20	1	157	277	157	36	21	1	96	240	96	0	49
			2	242	242	72	72		2	193	193	23	23	
24,7	25,1	25	1	173	305	172	40	22	1	123	250	123	0	55
			2	266	266	79	79		2	212	212	35	35	
29,2	29,6	25	1	176	322	176	29	23	1	161	269	161	52	60
			2	279	279	72	72		2	238	238	84	84	
33,7	34,1	25	1	179	341	179	17	25	1	164	316	164	12	66
			2	293	293	65	65		2	272	272	57	57	
38,2	38,6	30	1	195	374	195	16	26	1	158	403	158	0	72
			2	321	321	68	68		2	323	323	37	37	
42,7	43,1	40	1	223	421	223	25	27	1	158	516	158	0	78
			2	363	363	83	83		2	391	391	25	25	
47,2	47,6	60	1	276	496	276	57	28	1	201	644	201	0	85
			2	432	432	121	121		2	489	489	33	33	
51,7	52,1	80	1	330	573	330	86	30	1	235	790	235	0	91
			2	502	502	157	157		2	594	594	35	35	

3.2.4.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

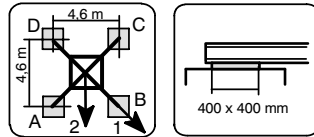


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in serviceb torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	20	1	153	266	153	41	20	1	90	240	90	0	44
			2	233	233	74	74		2	190	190	20	20	
20,2	20,6	25	1	169	292	169	46	21	1	117	248	117	0	49
			2	256	256	82	82		2	208	208	33	33	
24,7	25,1	25	1	172	308	172	37	22	1	119	257	119	0	55
			2	268	268	77	77		2	215	215	33	33	
29,2	29,6	25	1	176	325	176	26	24	1	161	277	161	45	61
			2	281	281	70	70		2	243	243	79	79	
33,7	34,1	30	1	192	356	191	27	25	1	177	337	176	16	67
			2	308	308	75	75		2	290	290	63	63	
38,2	38,6	30	1	195	377	195	13	26	1	150	420	150	0	73
			2	323	323	66	66		2	328	328	31	31	
42,7	43,1	45	1	236	437	235	34	27	1	174	534	174	0	79
			2	378	378	93	93		2	409	409	32	32	
47,2	47,6	65	1	289	512	289	66	28	1	216	663	216	0	85
			2	446	446	131	131		2	508	508	39	39	
51,7	52,1	85	1	342	589	342	95	30	1	250	810	250	0	91
			2	517	517	167	167		2	613	613	41	41	

3.2.4.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

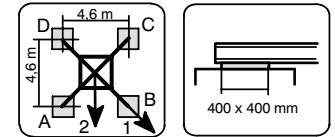


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 42,5 m**

Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]		
			corner loads					corner loads						
			A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]			
15,7	16,1	25	1	156	285	156	27	20	1	101	270	101	0	44
			2	248	248	65	65		2	214	214	22	22	
20,2	20,6	30	1	172	311	172	33	21	1	128	278	128	0	50
			2	270	270	74	74		2	232	232	35	35	
24,7	25,1	30	1	175	325	175	25	22	1	130	288	130	0	55
			2	281	281	69	69		2	239	239	35	35	
29,2	29,6	30	1	179	341	178	16	24	1	131	299	131	0	61
			2	294	294	63	63		2	252	252	105	105	
33,7	34,1	35	1	194	371	194	17	25	1	194	342	194	47	67
			2	319	319	69	69		2	299	299	90	90	
38,2	38,6	35	1	198	390	198	5	26	1	198	396	198	0	73
			2	334	334	61	61		2	338	338	58	58	
42,7	43,1	45	1	226	436	226	15	27	1	197	510	197	0	79
			2	375	375	77	77		2	406	406	45	45	
47,2	47,6	55	1	254	485	254	24	28	1	188	641	188	0	85
			2	417	417	91	91		2	481	481	27	27	
51,7	52,1	80	1	320	573	320	67	30	1	246	789	246	0	92
			2	499	499	141	141		2	599	599	41	41	

3.2.4.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

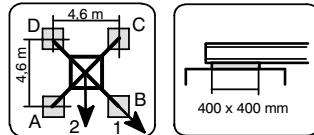


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 45 m**

Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]		
			corner loads					corner loads						
			A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]			
15,7	16,1	30	1	184	286	184	82	20	1	114	296	114	0	44
			2	256	256	112	112		2	236	236	26	26	
20,2	20,6	35	1	200	313	200	87	21	1	141	305	141	0	50
			2	280	280	120	120		2	255	255	39	39	
24,7	25,1	35	1	203	328	203	77	22	1	143	314	143	0	56
			2	292	292	114	114		2	261	261	38	38	
29,2	29,6	35	1	206	346	206	67	24	1	144	326	144	0	61
			2	305	305	108	108		2	277	277	106	106	
33,7	34,1	35	1	210	364	209	55	25	1	195	360	194	29	67
			2	319	319	100	100		2	312	312	77	77	
38,2	38,6	40	1	225	397	225	53	26	1	204	433	204	0	73
			2	347	347	104	104		2	364	364	57	57	
42,7	43,1	45	1	241	433	241	50	27	1	178	549	178	0	79
			2	376	376	106	106		2	420	420	32	32	
47,2	47,6	65	1	294	508	294	81	29	1	218	681	218	0	86
			2	445	445	144	144		2	520	520	38	38	
51,7	52,1	85	1	348	586	348	110	30	1	250	831	250	0	92
			2	516	516	179	179		2	627	627	38	38	

3.2.4.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

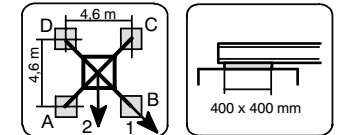


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	30	1	185	277	185	93	20	1	125	301	125	0	44
			2	250	250	120	120		2	245	245	31	31	
20,2	20,6	30	1	188	291	188	85	21	1	127	310	127	0	50
			2	261	261	115	115		2	251	251	31	31	
24,7	25,1	30	1	191	306	191	76	22	1	129	320	129	0	56
			2	272	272	110	110		2	258	258	31	31	
29,2	29,6	30	1	195	323	195	66	24	1	130	332	130	0	61
			2	285	285	104	104		2	280	280	80	80	
33,7	34,1	30	1	198	341	198	54	25	1	180	373	180	0	67
			2	299	299	96	96		2	315	315	51	51	
38,2	38,6	35	1	214	374	214	53	26	1	160	476	160	0	73
			2	327	327	100	100		2	367	367	30	30	
42,7	43,1	50	1	254	434	254	75	27	1	182	593	182	0	79
			2	381	381	127	127		2	449	449	29	29	
47,2	47,6	70	1	308	509	308	107	28	1	222	727	222	0	86
			2	450	450	165	165		2	550	550	35	35	
51,7	52,1	90	1	361	586	361	136	30	1	253	879	253	0	92
			2	520	520	202	202		2	657	657	35	35	

3.2.4.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

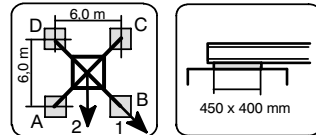


**KR 10 - 46/60** Corner distance 4,6 m x 4,6 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	30	1	185	265	185	105	20	1	120	311	120	0	45
			2	242	242	128	128		2	248	248	28	28	
20,2	20,6	30	1	188	279	188	97	21	1	123	320	123	0	50
			2	252	252	124	124		2	254	254	28	28	
24,7	25,1	30	1	191	294	191	88	22	1	124	330	124	0	56
			2	264	264	119	119		2	261	261	28	28	
29,2	29,6	30	1	195	311	195	78	24	1	125	342	125	0	62
			2	277	277	112	112		2	287	287	73	73	
33,7	34,1	35	1	211	342	210	79	25	1	194	394	194	0	68
			2	303	303	117	117		2	335	335	56	56	
38,2	38,6	35	1	214	362	214	65	26	1	149	498	148	0	74
			2	319	319	109	109		2	375	375	22	22	
42,7	43,1	55	1	267	434	267	100	27	1	195	618	195	0	80
			2	385	385	149	149		2	471	471	33	33	
47,2	47,6	75	1	320	508	320	132	29	1	234	753	234	0	86
			2	453	453	187	187		2	572	572	39	39	
51,7	52,1	95	1	374	585	374	162	30	1	264	907	264	0	93
			2	523	523	224	224		2	680	680	38	38	

3.2.5.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

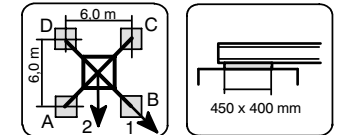


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	5	1	92	203	92	0	19	1	67	119	67	16	42
			2	169	169	25	25		2	109	109	84	84	
20,2	20,6	5	1	91	217	91	0	21	1	71	125	71	16	48
			2	177	177	23	23		2	109	109	32	32	
24,7	25,1	5	1	90	234	90	0	22	1	74	132	74	16	53
			2	186	186	20	20		2	122	122	84	84	
29,2	29,6	10	1	112	252	112	0	23	1	119	173	119	65	59
			2	208	208	30	30		2	157	157	81	81	
33,7	34,1	15	1	133	272	133	0	24	1	135	220	135	49	65
			2	231	231	68	68		2	195	195	74	74	
38,2	38,6	20	1	150	298	150	3	26	1	150	273	150	28	71
			2	256	256	75	75		2	237	237	64	64	
42,7	43,1	30	1	179	339	179	18	27	1	179	342	179	15	77
			2	294	294	94	94		2	294	294	63	63	
47,2	47,6	35	1	195	369	195	20	28	1	180	420	180	0	83
			2	320	320	99	99		2	343	343	46	46	
51,7	52,1	45	1	223	414	223	32	29	1	183	525	183	0	89
			2	361	361	115	115		2	409	409	37	37	

3.2.5.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive



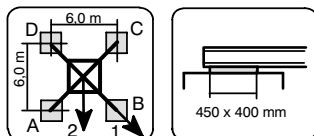
**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	0	1	76	187	76	0	19	1	52	119	52	0	42
			2	160	160	39	39		2	98	98	13	13	
20,2	20,6	0	1	75	202	75	0	21	1	55	124	55	0	48
			2	169	169	37	37		2	103	103	14	14	
24,7	25,1	5	1	119	222	119	16	22	1	104	141	104	67	53
			2	192	192	46	46		2	130	130	78	78	
29,2	29,6	10	1	135	248	135	21	23	1	120	184	120	55	59
			2	215	215	55	55		2	165	165	74	74	
33,7	34,1	15	1	150	275	150	26	24	1	135	232	135	38	65
			2	238	238	62	62		2	204	204	67	67	
38,2	38,6	20	1	166	303	166	29	26	1	151	285	151	17	71
			2	263	263	69	69		2	246	246	56	56	
42,7	43,1	25	1	182	333	182	30	27	1	159	350	159	0	77
			2	289	289	75	75		2	291	291	43	43	
47,2	47,6	35	1	210	378	210	43	28	1	168	445	168	0	83
			2	328	328	92	92		2	353	353	38	38	
51,7	52,1	45	1	238	424	238	53	29	1	171	551	171	0	89
			2	369	369	107	107		2	419	419	28	28	



3.2.5.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

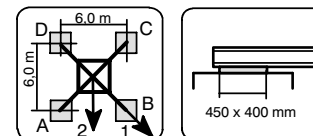


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	0	1	100	186	100	14	20	1	50	123	50	0	43
			2	161	161	39	39		2	99	99	12	12	
20,2	20,6	0	1	78	198	78	0	21	1	53	129	53	0	48
			2	170	170	36	36		2	105	105	13	13	
24,7	25,1	5	1	119	222	119	15	22	1	104	146	104	62	54
			2	192	192	46	46		2	134	134	74	74	
29,2	29,6	5	1	122	236	122	8	23	1	107	177	107	37	59
			2	203	203	42	42		2	157	157	58	58	
33,7	34,1	10	1	138	263	138	13	24	1	123	225	123	20	65
			2	226	226	49	49		2	195	195	50	50	
38,2	38,6	20	1	166	304	166	28	26	1	151	291	151	12	71
			2	264	264	69	69		2	250	250	53	53	
42,7	43,1	25	1	182	334	182	30	27	1	153	362	153	0	77
			2	290	290	74	74		2	295	295	39	39	
47,2	47,6	35	1	210	379	210	42	28	1	162	457	162	0	83
			2	329	329	91	91		2	357	357	33	33	
51,7	52,1	50	1	251	437	251	65	29	1	190	565	190	0	90
			2	383	383	119	119		2	436	436	36	36	

3.2.5.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

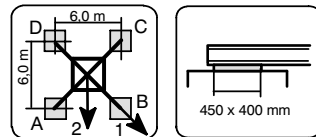


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m Jib 32,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	5	1	113	208	113	18	20	1	67	141	67	0	43
			2	180	180	46	46		2	119	119	19	19	
20,2	20,6	5	1	116	219	116	13	21	1	71	147	71	0	48
			2	189	189	43	43		2	124	124	20	20	
24,7	25,1	5	1	119	232	119	7	22	1	104	158	104	51	54
			2	199	199	40	40		2	142	142	67	67	
29,2	29,6	5	1	123	246	123	0	23	1	108	190	108	26	60
			2	210	210	36	36		2	166	166	50	50	
33,7	34,1	10	1	139	273	139	4	25	1	124	238	124	9	66
			2	234	234	43	43		2	205	205	42	42	
38,2	38,6	15	1	154	302	154	7	26	1	127	304	127	0	72
			2	259	259	50	50		2	247	247	32	32	
42,7	43,1	20	1	170	332	170	8	27	1	116	389	116	0	78
			2	285	285	55	55		2	293	293	17	17	
47,2	47,6	35	1	211	390	211	32	28	1	149	486	149	0	84
			2	337	337	84	84		2	368	368	24	24	
51,7	52,1	50	1	252	449	252	54	30	1	176	594	176	0	90
			2	391	391	112	112		2	447	447	26	26	

3.2.5.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

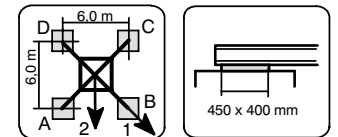


<b>KR 10 - 46/60</b>	<b>Corner distance 6,0 m x 6,0 m</b>	<b>Jib 35 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	5	1	103	202	103	3	20	1	60	157	60	0	43
			2	173	173	33	33		2	125	125	13	13	
20,2	20,6	5	1	106	213	106	0	21	1	64	163	64	0	49
			2	182	182	31	31		2	130	130	15	15	
24,7	25,1	10	1	122	237	122	7	22	1	88	173	88	3	54
			2	204	204	70	70		2	151	151	93	93	
29,2	29,6	10	1	125	250	125	1	23	1	125	194	125	56	60
			2	214	214	66	66		2	174	174	76	76	
33,7	34,1	10	1	122	270	122	0	25	1	128	230	128	26	66
			2	226	226	61	61		2	201	201	56	56	
38,2	38,6	20	1	157	304	157	10	26	1	157	296	157	17	72
			2	263	263	81	81		2	255	255	58	58	
42,7	43,1	25	1	173	333	173	12	27	1	163	364	163	0	78
			2	289	289	86	86		2	302	302	44	44	
47,2	47,6	35	1	201	376	201	26	28	1	171	461	171	0	84
			2	329	329	103	103		2	364	364	38	38	
51,7	52,1	45	1	244	422	244	67	29	1	173	571	173	0	90
			2	370	370	119	119		2	431	431	27	27	

3.2.5.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

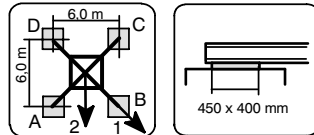


<b>KR 10 - 46/60</b>	<b>Corner distance 6,0 m x 6,0 m</b>	<b>Jib 37,5 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	10	1	131	215	131	47	20	1	75	178	75	0	43
			2	190	190	72	72		2	145	145	19	19	
20,2	20,6	10	1	134	227	134	42	21	1	79	184	79	0	49
			2	200	200	69	69		2	151	151	20	20	
24,7	25,1	10	1	138	239	138	36	22	1	82	191	82	0	55
			2	209	209	66	66		2	161	161	84	84	
29,2	29,6	10	1	141	253	141	29	23	1	126	209	126	43	60
			2	220	220	61	61		2	185	185	67	67	
33,7	34,1	15	1	157	280	157	33	25	1	142	258	142	25	66
			2	244	244	69	69		2	224	224	59	59	
38,2	38,6	15	1	160	297	160	23	26	1	136	309	136	0	72
			2	257	257	63	63		2	254	254	35	35	
42,7	43,1	20	1	176	327	176	24	27	1	124	396	124	0	78
			2	283	283	68	68		2	301	301	21	21	
47,2	47,6	35	1	216	385	216	48	28	1	156	494	156	0	85
			2	335	335	98	98		2	376	376	27	27	
51,7	52,1	50	1	257	444	257	70	30	1	182	605	182	0	91
			2	389	389	125	125		2	456	456	28	28	

3.2.5.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

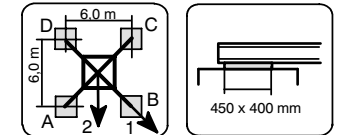


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: <b>125</b> kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	10	1	131	217	131	45	20	1	73	184	73	0	44		
			2	192	192	70	70		2	147	147	17	17			
20,2	20,6	10	1	134	229	134	40	21	1	76	190	76	0	49		
			2	201	201	67	67		2	153	153	18	18			
24,7	25,1	10	1	137	241	137	34	22	1	79	197	79	0	55		
			2	211	211	64	64		2	165	165	80	80			
29,2	29,6	15	1	153	268	153	39	24	1	138	227	138	49	61		
			2	234	234	72	72		2	201	201	75	75			
33,7	34,1	15	1	156	283	156	30	25	1	141	264	141	19	67		
			2	246	246	67	67		2	228	228	55	55			
38,2	38,6	15	1	160	299	160	20	26	1	129	322	129	0	73		
			2	258	258	61	61		2	259	259	31	31			
42,7	43,1	25	1	188	342	188	34	27	1	142	409	142	0	79		
			2	297	297	79	79		2	318	318	28	28			
47,2	47,6	35	1	216	387	216	45	28	1	149	508	149	0	85		
			2	337	337	96	96		2	381	381	21	21			
51,7	52,1	55	1	270	459	270	80	30	1	199	620	199	0	91		
			2	404	404	136	136		2	474	474	35	35			

3.2.5.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

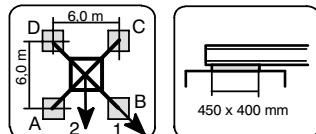


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: <b>125</b> kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	15	1	134	233	134	35	20	1	87	207	87	0	44		
			2	204	204	64	64		2	169	169	22	22			
20,2	20,6	15	1	137	244	137	30	21	1	91	213	91	0	50		
			2	212	212	62	62		2	174	174	23	23			
24,7	25,1	15	1	140	255	140	25	22	1	94	221	94	0	55		
			2	222	222	59	59		2	180	180	24	24			
29,2	29,6	15	1	144	268	144	19	24	1	96	229	96	0	61		
			2	232	232	55	55		2	200	200	87	87			
33,7	34,1	20	1	159	295	159	24	25	1	159	272	159	46	67		
			2	255	255	63	63		2	239	239	79	79			
38,2	38,6	20	1	163	310	163	15	26	1	163	314	163	11	73		
			2	267	267	58	58		2	270	270	55	55			
42,7	43,1	25	1	178	340	178	17	27	1	161	391	161	0	79		
			2	292	292	64	64		2	317	317	40	40			
47,2	47,6	35	1	207	383	207	30	28	1	168	491	168	0	85		
			2	332	332	82	82		2	380	380	33	33			
51,7	52,1	50	1	247	441	247	54	30	1	193	604	193	0	92		
			2	385	385	140	140		2	461	461	34	34			

3.2.5.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

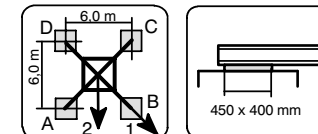


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m **Jib 45 m**

Hook height  [m]	center ballast  [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	20	1	161	240	161	83	20	1	103	227	103	0	44
			2	217	217	106	106		2	189	189	28	28	
20,2	20,6	20	1	165	251	165	78	21	1	107	233	107	0	50
			2	226	226	103	103		2	194	194	29	29	
24,7	25,1	20	1	168	264	168	72	22	1	109	241	109	0	56
			2	236	236	100	100		2	200	200	29	29	
29,2	29,6	20	1	171	278	171	64	24	1	156	249	156	64	61
			2	247	247	96	96		2	222	222	91	91	
33,7	34,1	20	1	175	293	175	56	25	1	160	286	160	33	67
			2	258	258	91	91		2	249	249	70	70	
38,2	38,6	25	1	190	322	190	58	26	1	175	341	175	9	73
			2	284	284	97	97		2	293	293	58	58	
42,7	43,1	25	1	194	340	194	47	27	1	147	421	147	0	79
			2	297	297	90	90		2	328	328	30	30	
47,2	47,6	35	1	222	385	222	58	29	1	153	522	153	0	86
			2	337	337	106	106		2	392	392	22	22	
51,7	52,1	55	1	275	458	275	93	30	1	202	637	202	0	92
			2	404	404	146	146		2	486	486	35	35	

3.2.5.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

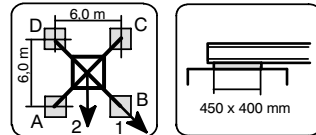


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m **Jib 47,5 m**

Hook height  [m]	center ballast  [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
15,7	16,1	15	1	150	220	150	79	20	1	90	231	90	0	44
			2	199	199	100	100		2	185	185	21	21	
20,2	20,6	15	1	153	232	153	74	21	1	94	238	94	0	50
			2	209	209	97	97		2	190	190	22	22	
24,7	25,1	15	1	156	244	156	68	22	1	96	245	96	0	56
			2	219	219	94	94		2	197	197	86	86	
29,2	29,6	15	1	160	258	160	61	24	1	98	254	98	0	61
			2	229	229	90	90		2	221	221	68	68	
33,7	34,1	15	1	163	273	163	53	25	1	148	291	148	5	67
			2	241	241	85	85		2	249	249	47	47	
38,2	38,6	20	1	179	302	179	55	26	1	145	365	145	0	73
			2	266	266	92	92		2	293	293	35	35	
42,7	43,1	25	1	194	332	194	57	27	1	132	455	132	0	79
			2	292	292	97	97		2	340	340	18	18	
47,2	47,6	40	1	235	389	235	81	28	1	162	557	162	0	86
			2	344	344	126	126		2	417	417	23	23	
51,7	52,1	60	1	288	461	288	116	30	1	210	674	210	0	92
			2	411	411	166	166		2	512	512	35	35	

3.2.5.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

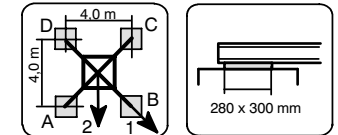


**KR 10 - 46/60** Corner distance 6,0 m x 6,0 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,7	16,1	15	1	150	211	150	88	20	1	87	239	87	0	45
			2	193	193	106	106		2	187	187	18	18	
20,2	20,6	15	1	153	223	153	83	21	1	90	245	90	0	50
			2	202	202	104	104		2	193	193	19	19	
24,7	25,1	15	1	156	235	156	77	22	1	93	253	93	0	56
			2	212	212	101	101		2	202	202	81	81	
29,2	29,6	15	1	160	249	160	70	24	1	95	262	95	0	62
			2	223	223	97	97		2	227	227	63	63	
33,7	34,1	20	1	175	276	175	75	25	1	160	312	160	9	68
			2	247	247	104	104		2	267	267	54	54	
38,2	38,6	20	1	179	292	179	65	26	1	137	382	137	0	74
			2	259	259	98	98		2	299	299	29	29	
42,7	43,1	30	1	207	335	207	79	27	1	148	473	148	0	80
			2	298	298	116	116		2	360	360	24	24	
47,2	47,6	45	1	248	392	248	104	29	1	177	577	177	0	86
			2	350	350	146	146		2	437	437	29	29	
51,7	52,1	60	1	289	451	289	126	30	1	200	695	200	0	93
			2	403	403	174	174		2	520	520	28	28	

3.2.6.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

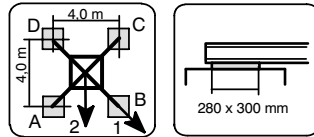


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	30	1	137	271	137	3	16	1	137	211	137	63	29
			2	232	232	43	43		2	190	190	85	85	
10,8	11,2	30	1	140	284	140	0	18	1	141	195	141	86	34
			2	241	241	40	40		2	179	179	102	102	
15,3	15,7	30	1	137	303	137	0	19	1	115	192	115	37	39
			2	251	251	37	37		2	169	169	60	60	
19,8	20,2	30	1	132	325	132	0	20	1	118	199	118	37	45
			2	262	262	32	32		2	175	175	60	60	
24,3	24,7	30	1	126	350	126	0	21	1	121	207	121	35	50
			2	274	274	27	27		2	182	182	60	60	
28,8	29,2	40	1	169	378	169	0	22	1	179	254	179	103	56
			2	312	312	45	45		2	232	232	125	125	
33,3	33,7	50	1	207	412	207	2	24	1	207	330	207	84	62
			2	352	352	62	62		2	294	294	120	120	

3.2.6.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

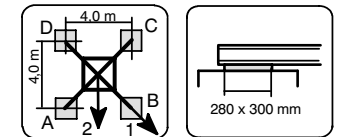


KR HEB 700 - 4 Corner distance 4,0 m x 4,0 m Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	25	1	125	248	125	3	16	1	125	185	125	66	29
			2	216	216	65	65		2	167	167	84	84	
10,8	11,2	25	1	144	260	144	27	18	1	99	185	99	14	34
			2	226	226	61	61		2	160	160	39	39	
15,3	15,7	25	1	125	279	125	0	19	1	103	191	103	14	40
			2	237	237	57	57		2	165	165	40	40	
19,8	20,2	25	1	120	301	120	0	20	1	106	199	106	13	45
			2	249	249	51	51		2	172	172	40	40	
24,3	24,7	25	1	114	326	114	0	21	1	109	207	109	11	51
			2	262	262	45	45		2	179	179	40	40	
28,8	29,2	35	1	157	354	157	0	23	1	167	259	167	75	56
			2	302	302	62	62		2	232	232	102	102	
33,3	33,7	45	1	210	397	210	23	24	1	195	335	195	55	62
			2	342	342	78	78		2	294	294	96	96	

3.2.6.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

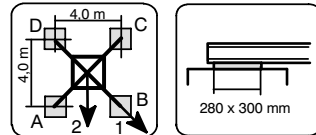


KR HEB 700 - 4 Corner distance 4,0 m x 4,0 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	25	1	141	248	141	33	16	1	96	182	96	11	29
			2	216	216	65	65		2	163	163	88	88	
10,8	11,2	25	1	144	261	144	27	18	1	99	188	99	11	34
			2	227	227	61	61		2	162	162	37	37	
15,3	15,7	25	1	147	275	147	19	19	1	103	195	103	10	40
			2	238	238	56	56		2	168	168	37	37	
19,8	20,2	25	1	124	295	124	0	20	1	106	203	106	9	45
			2	250	250	51	51		2	174	174	38	38	
24,3	24,7	25	1	118	319	118	0	21	1	109	211	109	8	51
			2	263	263	44	44		2	181	181	37	37	
28,8	29,2	35	1	182	352	182	11	23	1	167	267	167	67	57
			2	302	302	61	61		2	237	237	96	96	
33,3	33,7	40	1	198	386	198	9	24	1	183	331	183	34	62
			2	331	331	65	65		2	288	288	78	78	

3.2.6.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

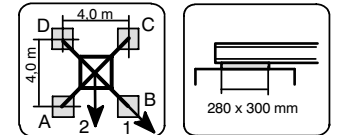


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	30	1	154	274	154	33	17	1	109	208	109	11	29
			2	239	239	69	69		2	179	179	39	39	
10,8	11,2	30	1	157	287	157	27	18	1	113	214	113	11	35
			2	249	249	65	65		2	184	184	41	41	
15,3	15,7	30	1	160	301	160	19	19	1	116	221	116	10	40
			2	260	260	60	60		2	190	190	41	41	
19,8	20,2	30	1	163	317	163	10	20	1	119	229	119	9	46
			2	272	272	55	55		2	197	197	41	41	
24,3	24,7	30	1	166	336	166	0	22	1	122	237	122	7	51
			2	286	286	48	48		2	205	205	98	98	
28,8	29,2	30	1	156	369	156	0	23	1	155	273	155	37	57
			2	300	300	40	40		2	238	238	72	72	
33,3	33,7	40	1	194	405	194	0	24	1	183	351	183	16	63
			2	342	342	55	55		2	302	302	65	65	

3.2.6.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

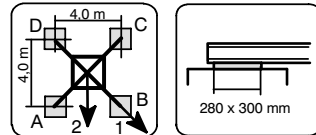


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	25	1	131	261	131	1	17	1	85	220	85	0	30
			2	223	223	39	39		2	175	175	19	19	
10,8	11,2	25	1	131	276	131	0	18	1	88	226	88	0	35
			2	232	232	37	37		2	181	181	20	20	
15,3	15,7	25	1	128	296	128	0	19	1	91	234	91	0	40
			2	242	242	33	33		2	187	187	21	21	
19,8	20,2	30	1	148	318	148	0	20	1	118	243	118	0	46
			2	266	266	41	41		2	206	206	33	33	
24,3	24,7	30	1	142	344	142	0	22	1	119	254	119	0	52
			2	278	278	35	35		2	213	213	33	33	
28,8	29,2	35	1	159	373	159	0	23	1	139	272	139	6	57
			2	304	304	40	40		2	242	242	103	103	
33,3	33,7	45	1	199	405	199	0	24	1	201	349	201	53	63
			2	344	344	57	57		2	305	305	96	96	

3.2.6.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

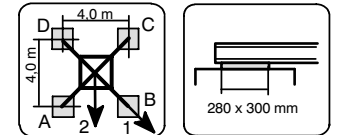


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	30	1	159	263	159	55	17	1	95	252	95	0	30
			2	233	233	86	86		2	200	200	21	21	
10,8	11,2	30	1	162	276	162	49	18	1	98	259	98	0	35
			2	243	243	82	82		2	205	205	22	22	
15,3	15,7	30	1	166	291	166	41	19	1	101	266	101	0	41
			2	254	254	77	77		2	211	211	23	23	
19,8	20,2	35	1	182	319	182	44	20	1	128	276	128	0	46
			2	279	279	84	84		2	230	230	35	35	
24,3	24,7	35	1	185	337	185	33	22	1	129	286	129	0	52
			2	292	292	77	77		2	237	237	35	35	
28,8	29,2	35	1	188	356	188	20	23	1	129	299	129	0	58
			2	307	307	69	69		2	258	258	88	88	
33,3	33,7	40	1	204	390	204	17	24	1	189	359	189	19	64
			2	336	336	72	72		2	309	309	69	69	

3.2.6.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive



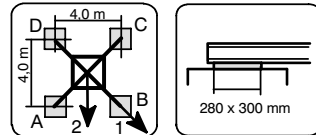
**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	30	1	159	266	159	52	17	1	91	261	91	0	30
			2	235	235	84	84		2	203	203	18	18	
10,8	11,2	30	1	162	279	162	46	18	1	94	267	94	0	36
			2	245	245	80	80		2	208	208	19	19	
15,3	15,7	35	1	178	306	178	50	19	1	122	275	122	0	41
			2	269	269	88	88		2	227	227	32	32	
19,8	20,2	35	1	181	322	181	40	20	1	124	284	124	0	47
			2	281	281	82	82		2	233	233	32	32	
24,3	24,7	35	1	185	340	185	29	22	1	125	295	125	0	52
			2	295	295	75	75		2	241	241	31	31	
28,8	29,2	40	1	200	372	200	29	23	1	185	314	185	57	58
			2	322	322	79	79		2	276	276	95	95	
33,3	33,7	40	1	204	394	204	14	24	1	189	368	189	10	64
			2	338	338	69	69		2	315	315	62	62	



3.2.6.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

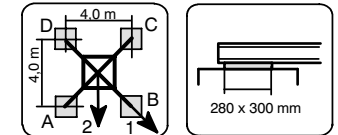


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	35	1	162	291	162	33	17	1	100	295	100	0	30
			2	253	253	71	71		2	228	228	19	19	
10,8	11,2	40	1	178	315	178	40	18	1	128	302	128	0	36
			2	275	275	80	80		2	246	246	32	32	
15,3	15,7	40	1	181	328	181	33	19	1	130	310	130	0	41
			2	285	285	77	77		2	252	252	33	33	
19,8	20,2	40	1	184	343	184	25	20	1	132	319	132	0	47
			2	297	297	72	72		2	259	259	33	33	
24,3	24,7	45	1	200	372	200	28	22	1	158	331	158	0	52
			2	322	322	78	78		2	279	279	45	45	
28,8	29,2	45	1	203	390	203	16	23	1	158	344	158	0	58
			2	336	336	71	71		2	287	287	43	43	
33,3	33,7	45	1	207	410	207	3	24	1	207	371	207	42	64
			2	351	351	62	62		2	323	323	90	90	

3.2.6.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

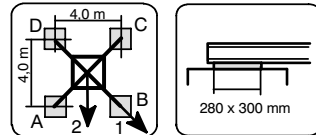


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	40	1	175	289	175	61	17	1	111	325	111	0	31
			2	257	257	122	122		2	252	252	21	21	
10,8	11,2	45	1	190	313	190	68	18	1	139	332	139	0	36
			2	280	280	131	131		2	270	270	35	35	
15,3	15,7	45	1	194	326	194	61	19	1	141	340	141	0	42
			2	291	291	126	126		2	276	276	35	35	
19,8	20,2	45	1	212	341	212	83	21	1	143	350	143	0	47
			2	303	303	121	121		2	283	283	35	35	
24,3	24,7	50	1	228	372	228	84	22	1	169	361	169	0	53
			2	329	329	126	126		2	302	302	47	47	
28,8	29,2	50	1	231	391	231	71	23	1	169	374	169	0	59
			2	344	344	118	118		2	311	311	121	121	
33,3	33,7	50	1	234	413	234	56	24	1	219	405	219	34	65
			2	361	361	108	108		2	351	351	88	88	

3.2.6.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

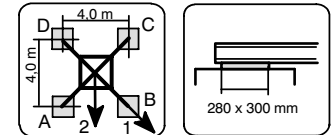


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	40	1	190	274	190	107	17	1	122	331	122	0	31
			2	249	249	132	132		2	261	261	26	26	
10,8	11,2	40	1	194	287	194	101	18	1	125	338	125	0	36
			2	260	260	128	128		2	266	266	27	27	
15,3	15,7	40	1	197	301	197	93	19	1	127	346	127	0	42
			2	271	271	123	123		2	273	273	28	28	
19,8	20,2	40	1	200	317	200	83	21	1	129	356	129	0	47
			2	283	283	118	118		2	279	279	27	27	
24,3	24,7	45	1	216	347	216	85	22	1	154	368	154	0	53
			2	309	309	123	123		2	299	299	39	39	
28,8	29,2	45	1	219	367	219	72	23	1	154	382	154	0	59
			2	324	324	115	115		2	316	316	93	93	
33,3	33,7	45	1	223	388	223	57	24	1	206	420	206	0	65
			2	340	340	106	106		2	356	356	59	59	

3.2.6.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

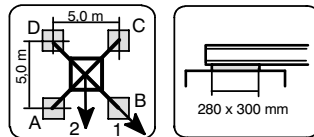


**KR HEB 700 - 4** Corner distance 4,0 m x 4,0 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	40	1	176	264	176	87	17	1	117	342	117	0	31
			2	240	240	141	141		2	265	265	23	23	
10,8	11,2	40	1	179	276	179	81	18	1	120	349	120	0	37
			2	250	250	138	138		2	270	270	23	23	
15,3	15,7	45	1	195	302	195	87	19	1	147	357	147	0	42
			2	274	274	145	145		2	289	289	36	36	
19,8	20,2	45	1	213	316	213	109	21	1	148	368	148	0	48
			2	286	286	140	140		2	296	296	36	36	
24,3	24,7	45	1	216	334	216	98	22	1	149	380	149	0	53
			2	299	299	133	133		2	304	304	35	35	
28,8	29,2	45	1	219	353	219	86	23	1	148	394	148	0	59
			2	314	314	125	125		2	324	324	85	85	
33,3	33,7	50	1	235	387	235	84	24	1	218	444	218	0	65
			2	342	342	128	128		2	378	378	63	63	

3.2.7.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

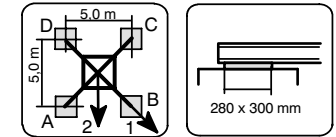


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	20	1	115	222	115	8	16	1	115	174	115	56	29
			2	191	191	39	39		2	157	157	73	73	
10,8	11,2	20	1	118	232	118	4	18	1	118	162	118	74	34
			2	199	199	38	38		2	149	149	87	87	
15,3	15,7	20	1	121	243	121	0	19	1	92	154	92	31	39
			2	207	207	36	36		2	139	139	104	104	
19,8	20,2	20	1	120	260	120	0	20	1	95	160	95	30	45
			2	217	217	33	33		2	141	141	49	49	
24,3	24,7	20	1	116	280	116	0	21	1	99	168	99	30	50
			2	227	227	29	29		2	147	147	109	109	
28,8	29,2	25	1	137	302	137	0	22	1	144	204	144	83	56
			2	251	251	37	37		2	187	187	101	101	
33,3	33,7	30	1	156	327	156	0	24	1	160	258	160	61	62
			2	275	275	44	44		2	229	229	90	90	
37,8	38,2	40	1	188	366	188	10	25	1	188	330	188	45	68
			2	314	314	62	62		2	289	289	87	87	

3.2.7.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

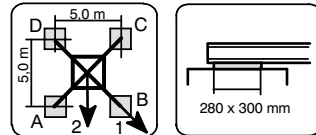


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	15	1	118	203	118	33	16	1	103	150	103	56	29
			2	178	178	58	58		2	137	137	70	70	
10,8	11,2	15	1	121	214	121	28	18	1	77	145	77	9	34
			2	187	187	55	55		2	129	129	84	84	
15,3	15,7	15	1	125	226	125	23	19	1	80	151	80	9	40
			2	197	197	53	53		2	130	130	30	30	
19,8	20,2	15	1	106	241	106	0	20	1	83	158	83	9	45
			2	207	207	49	49		2	136	136	31	31	
24,3	24,7	15	1	102	260	102	0	21	1	87	165	87	8	51
			2	218	218	44	44		2	145	145	88	88	
28,8	29,2	20	1	147	283	147	11	23	1	132	206	132	58	56
			2	243	243	51	51		2	184	184	80	80	
33,3	33,7	30	1	175	325	175	25	24	1	160	272	160	48	62
			2	281	281	69	69		2	240	240	81	81	
37,8	38,2	35	1	191	357	191	25	25	1	176	333	176	19	68
			2	308	308	74	74		2	287	287	65	65	

3.2.7.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

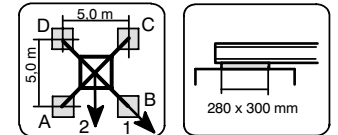


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 30 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	15	1	118	204	118	32	16	1	103	146	103	61	29
			2	179	179	57	57		2	133	133	73	73	
10,8	11,2	15	1	121	215	121	28	18	1	77	148	77	6	34
			2	188	188	55	55		2	127	127	27	27	
15,3	15,7	15	1	125	227	125	22	19	1	80	154	80	7	40
			2	197	197	52	52		2	133	133	28	28	
19,8	20,2	15	1	128	240	128	15	20	1	84	161	84	6	45
			2	208	208	48	48		2	138	138	29	29	
24,3	24,7	15	1	131	255	131	7	21	1	87	168	87	6	51
			2	219	219	44	44		2	149	149	84	84	
28,8	29,2	20	1	147	283	147	11	23	1	132	212	132	52	57
			2	243	243	51	51		2	188	188	76	76	
33,3	33,7	25	1	163	313	163	12	24	1	148	267	148	29	62
			2	269	269	56	56		2	232	232	64	64	
37,8	38,2	35	1	191	358	191	25	25	1	176	340	176	13	68
			2	309	309	73	73		2	292	292	60	60	

3.2.7.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

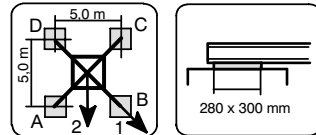


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	20	1	131	227	131	35	17	1	87	166	87	8	29
			2	199	199	63	63		2	143	143	31	31	
10,8	11,2	20	1	135	238	135	31	18	1	90	172	90	9	35
			2	208	208	61	61		2	148	148	33	33	
15,3	15,7	20	1	138	251	138	25	19	1	93	178	93	9	40
			2	218	218	58	58		2	153	153	34	34	
19,8	20,2	20	1	141	264	141	18	20	1	97	185	97	9	46
			2	228	228	54	54		2	159	159	35	35	
24,3	24,7	20	1	144	279	144	10	22	1	100	192	100	8	51
			2	240	240	49	49		2	172	172	87	87	
28,8	29,2	20	1	148	295	148	0	23	1	133	227	133	38	57
			2	252	252	43	43		2	199	199	66	66	
33,3	33,7	25	1	163	326	163	1	24	1	148	282	148	14	63
			2	278	278	49	49		2	243	243	54	54	
37,8	38,2	30	1	179	358	179	1	25	1	150	358	150	0	69
			2	305	305	53	53		2	291	291	37	37	

3.2.7.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

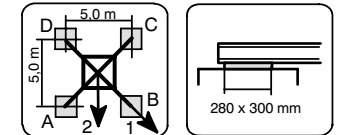


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	15	1	109	213	109	5	17	1	62	176	62	0	30
			2	182	182	35	35		2	141	141	76	76	
10,8	11,2	15	1	112	223	112	1	18	1	66	181	66	0	35
			2	190	190	34	34		2	142	142	14	14	
15,3	15,7	20	1	128	246	128	9	19	1	94	188	94	0	40
			2	212	212	44	44		2	160	160	28	28	
19,8	20,2	20	1	131	259	131	4	20	1	97	195	97	0	46
			2	221	221	41	41		2	166	166	28	28	
24,3	24,7	20	1	131	275	131	0	22	1	100	203	100	0	52
			2	232	232	37	37		2	172	172	29	29	
28,8	29,2	20	1	126	298	126	0	23	1	138	216	138	59	57
			2	243	243	32	32		2	193	193	82	82	
33,3	33,7	25	1	145	324	145	0	24	1	153	272	153	35	63
			2	268	268	39	39		2	237	237	70	70	
37,8	38,2	35	1	182	359	182	5	25	1	182	345	182	18	69
			2	307	307	87	87		2	297	297	66	66	

3.2.7.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

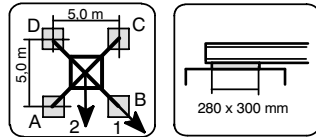


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,3	6,7	20	1	137	220	137	54	17	1	75	202	75	0	30
			2	196	196	78	78		2	159	159	16	16	
10,8	11,2	20	1	140	231	140	49	18	1	79	207	79	0	35
			2	204	204	76	76		2	165	165	18	18	
15,3	15,7	20	1	143	243	143	43	19	1	83	213	83	0	41
			2	214	214	73	73		2	170	170	19	19	
19,8	20,2	20	1	147	257	147	36	20	1	86	220	86	0	46
			2	225	225	69	69		2	176	176	20	20	
24,3	24,7	25	1	162	284	162	41	22	1	113	229	113	0	52
			2	248	248	76	76		2	195	195	32	32	
28,8	29,2	25	1	166	300	166	31	23	1	151	246	151	55	58
			2	261	261	70	70		2	218	218	83	83	
33,3	33,7	25	1	169	318	169	20	24	1	154	290	154	18	64
			2	274	274	63	63		2	250	250	58	58	
37,8	38,2	30	1	185	350	185	19	25	1	158	364	158	0	69
			2	302	302	68	68		2	299	299	41	41	

3.2.7.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

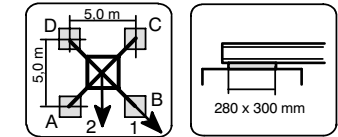


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	20	1	137	222	137	51	17	1	72	209	72	0	30		
			2	197	197	76	76		2	162	162	14	14			
10,8	11,2	20	1	140	233	140	47	18	1	76	214	76	0	36		
			2	206	206	74	74		2	167	167	16	16			
15,3	15,7	25	1	156	258	156	53	19	1	105	220	105	0	41		
			2	228	228	83	83		2	185	185	29	29			
19,8	20,2	25	1	159	272	159	46	20	1	107	227	107	0	47		
			2	239	239	79	79		2	191	191	30	30			
24,3	24,7	25	1	162	287	162	38	22	1	110	236	110	0	52		
			2	250	250	74	74		2	197	197	30	30			
28,8	29,2	25	1	166	303	166	28	23	1	151	253	151	48	58		
			2	263	263	68	68		2	223	223	78	78			
33,3	33,7	30	1	181	333	181	29	24	1	166	310	166	23	64		
			2	289	289	74	74		2	268	268	65	65			
37,8	38,2	30	1	185	353	185	16	25	1	150	379	150	0	70		
			2	304	304	65	65		2	304	304	35	35			

3.2.7.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

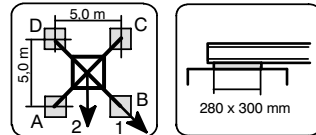


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	25	1	140	243	140	36	17	1	84	236	84	0	30		
			2	212	212	67	67		2	185	185	17	17			
10,8	11,2	25	1	143	253	143	33	18	1	88	241	88	0	36		
			2	221	221	65	65		2	190	190	19	19			
15,3	15,7	25	1	146	264	146	28	19	1	92	248	92	0	41		
			2	230	230	63	63		2	196	196	20	20			
19,8	20,2	30	1	162	289	162	35	20	1	119	255	119	0	47		
			2	252	252	72	72		2	214	214	33	33			
24,3	24,7	30	1	165	303	165	27	22	1	122	264	122	0	52		
			2	263	263	68	68		2	220	220	33	33			
28,8	29,2	30	1	168	318	168	19	23	1	123	275	123	0	58		
			2	274	274	63	63		2	233	233	104	104			
33,3	33,7	30	1	172	335	172	9	24	1	172	303	172	40	64		
			2	287	287	56	56		2	265	265	78	78			
37,8	38,2	35	1	187	366	187	9	25	1	187	366	187	9	70		
			2	314	314	61	61		2	314	314	61	61			

3.2.7.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

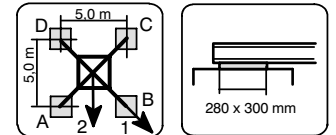


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	30	1	167	243	167	91	17	1	98	260	98	0	31		
			2	221	221	114	114		2	206	206	22	22			
10,8	11,2	30	1	171	254	171	87	18	1	102	265	102	0	36		
			2	230	230	111	111		2	211	211	23	23			
15,3	15,7	30	1	174	267	174	81	19	1	106	272	106	0	42		
			2	240	240	108	108		2	217	217	24	24			
19,8	20,2	30	1	177	280	177	74	21	1	108	280	108	0	47		
			2	250	250	104	104		2	223	223	25	25			
24,3	24,7	35	1	193	308	193	78	22	1	135	289	135	0	53		
			2	274	274	111	111		2	242	242	37	37			
28,8	29,2	35	1	196	324	196	68	23	1	137	299	137	0	59		
			2	287	287	105	105		2	257	257	105	105			
33,3	33,7	35	1	199	342	199	57	24	1	184	333	184	36	65		
			2	300	300	98	98		2	289	289	79	79			
37,8	38,2	40	1	215	375	215	56	26	1	200	396	200	4	71		
			2	328	328	102	102		2	339	339	61	61			

3.2.7.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

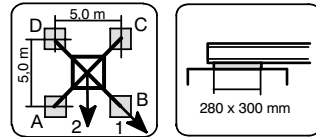


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	30	1	168	235	168	102	17	1	110	265	110	0	31		
			2	215	215	121	121		2	215	215	27	27			
10,8	11,2	30	1	171	246	171	97	18	1	114	270	114	0	36		
			2	224	224	119	119		2	220	220	29	29			
15,3	15,7	30	1	175	258	175	91	19	1	117	277	117	0	42		
			2	234	234	116	116		2	226	226	30	30			
19,8	20,2	30	1	178	272	178	84	21	1	120	285	120	0	47		
			2	244	244	112	112		2	232	232	30	30			
24,3	24,7	30	1	181	286	181	76	22	1	121	294	121	0	53		
			2	255	255	107	107		2	238	238	30	30			
28,8	29,2	30	1	184	302	184	66	23	1	122	305	122	0	59		
			2	268	268	101	101		2	259	259	80	80			
33,3	33,7	30	1	188	320	188	55	24	1	173	341	173	5	65		
			2	281	281	94	94		2	292	292	54	54			
37,8	38,2	35	1	203	352	203	55	25	1	161	432	161	0	71		
			2	309	309	98	98		2	341	341	36	36			

3.2.7.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

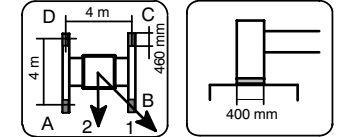


**KR HEB 700 - 5** Corner distance 5,0 m x 5,0 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,3	6,7	30	1	168	224	168	112	17	1	106	273	106	0	31		
			2	208	208	129	129		2	218	218	24	24			
10,8	11,2	30	1	171	235	171	108	18	1	110	279	110	0	37		
			2	217	217	126	126		2	223	223	26	26			
15,3	15,7	30	1	175	247	175	102	19	1	113	286	113	0	42		
			2	226	226	123	123		2	229	229	27	27			
19,8	20,2	30	1	178	261	178	95	21	1	115	294	115	0	48		
			2	237	237	119	119		2	235	235	27	27			
24,3	24,7	30	1	181	275	181	87	22	1	117	304	117	0	53		
			2	248	248	115	115		2	242	242	27	27			
28,8	29,2	30	1	185	291	185	78	23	1	118	315	118	0	59		
			2	260	260	109	109		2	265	265	74	74			
33,3	33,7	35	1	200	321	200	79	24	1	185	363	185	7	65		
			2	286	286	115	115		2	311	311	59	59			
37,8	38,2	35	1	204	341	204	66	26	1	151	453	151	0	71		
			2	301	301	107	107		2	349	349	28	28			

3.2.8.1 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive



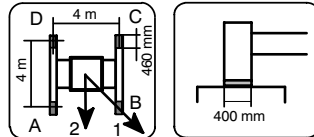
**SR 150** Corner distance 4,0 m x 4,0 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
6,5	6,9	25	1	121	268	121	0	16	1	127	200	127	54	29		
			2	222	222	32	32		2	179	179	76	76			
11,0	11,4	25	1	119	285	119	0	18	1	131	184	131	77	35		
			2	231	231	30	30		2	168	168	93	93			
15,5	15,9	25	1	116	304	116	0	19	1	105	182	105	27	40		
			2	241	241	26	26		2	159	159	50	50			
20,0	20,4	25	1	112	326	112	0	20	1	108	189	108	26	45		
			2	252	252	22	22		2	165	165	50	50			
24,5	24,9	30	1	131	351	131	0	21	1	124	210	124	37	51		
			2	277	277	29	29		2	185	185	62	62			
29,0	29,4	40	1	173	379	173	0	22	1	181	259	181	103	57		
			2	315	315	47	47		2	236	236	126	126			
33,5	33,9	45	1	189	411	189	0	24	1	197	323	197	71	63		
			2	342	342	52	52		2	286	286	108	108			
38,0	38,4	55	1	225	449	225	2	25	1	225	406	225	44	68		
			2	383	383	67	67		2	353	353	97	97			



3.2.8.2 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

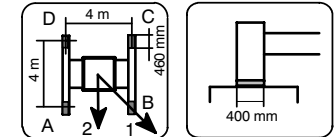


**SR 150** Corner distance 4,0 m x 4,0 m Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	25	1	128	251	128	5	16	1	128	186	128	70	29
			2	219	219	67	67		2	169	169	87	87	
11,0	11,4	25	1	146	263	146	29	18	1	102	187	102	16	35
			2	229	229	64	64		2	162	162	41	41	
15,5	15,9	25	1	129	280	129	0	19	1	105	194	105	16	40
			2	240	240	59	59		2	168	168	42	42	
20,0	20,4	25	1	125	302	125	0	20	1	108	202	108	15	46
			2	252	252	53	53		2	174	174	42	42	
24,5	24,9	25	1	119	327	119	0	21	1	112	210	112	13	51
			2	265	265	47	47		2	181	181	42	42	
29,0	29,4	35	1	184	355	184	14	23	1	169	264	169	75	57
			2	305	305	64	64		2	236	236	103	103	
33,5	33,9	45	1	213	401	213	25	24	1	198	340	198	55	63
			2	345	345	80	80		2	299	299	97	97	
38,0	38,4	55	1	241	449	241	33	25	1	226	424	226	27	69
			2	388	388	94	94		2	366	366	85	85	

3.2.8.3 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

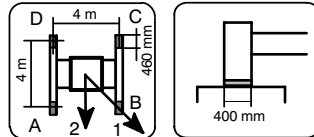


**SR 150** Corner distance 4,0 m x 4,0 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	25	1	143	251	143	35	16	1	99	184	99	13	30
			2	219	219	67	67		2	165	165	91	91	
11,0	11,4	25	1	146	264	146	29	18	1	102	191	102	13	35
			2	229	229	63	63		2	165	165	39	39	
15,5	15,9	25	1	150	278	150	21	19	1	105	198	105	13	40
			2	241	241	59	59		2	171	171	40	40	
20,0	20,4	25	1	128	296	128	0	20	1	109	205	109	12	46
			2	253	253	53	53		2	177	177	40	40	
24,5	24,9	25	1	122	321	122	0	21	1	112	214	112	10	52
			2	266	266	46	46		2	184	184	40	40	
29,0	29,4	35	1	184	356	184	13	23	1	169	271	169	67	57
			2	305	305	63	63		2	242	242	97	97	
33,5	33,9	40	1	200	389	200	11	24	1	185	336	185	34	63
			2	334	334	67	67		2	292	292	78	78	
38,0	38,4	50	1	228	437	228	19	25	1	213	421	213	6	69
			2	376	376	81	81		2	360	360	67	67	

3.2.8.4 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

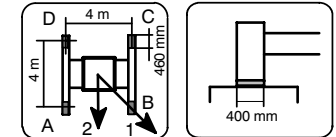


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	30	1	156	277	156	35	17	1	112	211	112	13	30
			2	241	241	71	71		2	182	182	42	42	
11,0	11,4	30	1	159	290	159	29	18	1	115	217	115	13	35
			2	252	252	67	67		2	187	187	43	43	
15,5	15,9	30	1	163	304	163	21	19	1	118	224	118	13	41
			2	263	263	62	62		2	193	193	44	44	
20,0	20,4	30	1	166	321	166	11	20	1	122	232	122	11	46
			2	275	275	57	57		2	199	199	44	44	
24,5	24,9	30	1	169	338	169	0	22	1	125	240	125	10	52
			2	289	289	50	50		2	209	209	100	100	
29,0	29,4	30	1	160	370	160	0	23	1	158	278	158	37	58
			2	303	303	42	42		2	243	243	72	72	
33,5	33,9	35	1	174	406	174	0	24	1	173	343	173	3	63
			2	332	332	44	44		2	293	293	53	53	
38,0	38,4	45	1	210	447	210	0	25	1	177	453	177	0	69
			2	375	375	58	58		2	362	362	41	41	

3.2.8.5 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

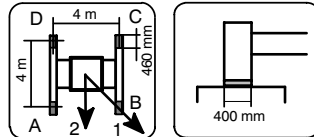


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	25	1	134	264	134	3	17	1	89	221	89	0	30
			2	226	226	41	41		2	178	178	22	22	
11,0	11,4	25	1	135	277	135	0	18	1	93	227	93	0	36
			2	235	235	39	39		2	183	183	23	23	
15,5	15,9	25	1	132	297	132	0	19	1	96	235	96	0	41
			2	245	245	35	35		2	189	189	23	23	
20,0	20,4	25	1	127	319	127	0	20	1	98	244	98	0	47
			2	256	256	30	30		2	196	196	23	23	
24,5	24,9	30	1	146	345	146	0	22	1	124	254	124	0	52
			2	281	281	37	37		2	215	215	35	35	
29,0	29,4	35	1	163	374	163	0	23	1	175	276	175	74	58
			2	307	307	42	42		2	246	246	104	104	
33,5	33,9	40	1	178	407	178	0	24	1	191	341	191	40	64
			2	335	335	47	47		2	297	297	84	84	
38,0	38,4	55	1	232	454	232	9	25	1	232	439	232	24	70
			2	389	389	74	74		2	378	378	85	85	

3.2.8.6 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

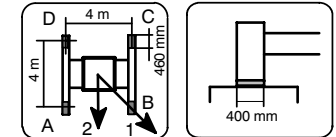


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	30	1	162	266	162	57	17	1	100	253	100	0	30
			2	235	235	88	88		2	202	202	23	23	
11,0	11,4	30	1	165	279	165	51	18	1	103	259	103	0	36
			2	246	246	84	84		2	208	208	24	24	
15,5	15,9	30	1	168	294	168	43	19	1	106	267	106	0	41
			2	257	257	79	79		2	214	214	25	25	
20,0	20,4	35	1	184	322	184	46	20	1	132	276	132	0	47
			2	282	282	86	86		2	233	233	37	37	
24,5	24,9	35	1	187	340	187	35	22	1	134	287	134	0	52
			2	295	295	79	79		2	240	240	37	37	
29,0	29,4	35	1	191	360	191	22	23	1	134	299	134	0	58
			2	310	310	71	71		2	262	262	89	89	
33,5	33,9	40	1	206	394	206	19	24	1	191	364	191	19	64
			2	339	339	74	74		2	313	313	69	69	
38,0	38,4	45	1	222	430	222	14	25	1	184	460	184	0	70
			2	369	369	75	75		2	370	370	44	44	

3.2.8.7 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

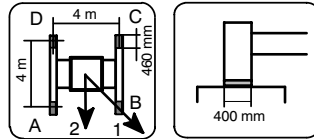


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	30	1	162	269	162	54	17	1	96	261	96	0	31
			2	237	237	86	86		2	205	205	20	20	
11,0	11,4	30	1	165	282	165	48	18	1	99	268	99	0	36
			2	248	248	82	82		2	211	211	21	21	
15,5	15,9	35	1	181	309	181	52	19	1	126	276	126	0	42
			2	272	272	90	90		2	230	230	34	34	
20,0	20,4	35	1	184	325	184	42	20	1	128	285	128	0	47
			2	284	284	84	84		2	236	236	34	34	
24,5	24,9	35	1	187	343	187	31	22	1	129	296	129	0	53
			2	298	298	77	77		2	243	243	34	34	
29,0	29,4	40	1	203	375	203	31	23	1	188	319	188	57	59
			2	325	325	81	81		2	280	280	95	95	
33,5	33,9	40	1	206	397	206	15	24	1	191	373	191	9	64
			2	341	341	71	71		2	320	320	63	63	
38,0	38,4	45	1	222	433	222	11	25	1	174	480	174	0	70
			2	371	371	73	73		2	377	377	37	37	

3.2.8.8 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

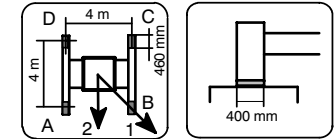


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	35	1	164	294	164	35	17	1	104	296	104	0	31
			2	256	256	73	73		2	231	231	21	21	
11,0	11,4	35	1	168	306	168	30	18	1	108	302	108	0	36
			2	265	265	70	70		2	236	236	22	22	
15,5	15,9	40	1	183	332	183	35	19	1	135	310	135	0	42
			2	288	288	79	79		2	255	255	35	35	
20,0	20,4	40	1	187	346	187	27	20	1	137	320	137	0	47
			2	300	300	74	74		2	262	262	35	35	
24,5	24,9	40	1	190	363	190	17	22	1	138	331	138	0	53
			2	312	312	68	68		2	269	269	34	34	
29,0	29,4	45	1	206	394	206	18	23	1	163	344	163	0	59
			2	339	339	73	73		2	289	289	46	46	
33,5	33,9	45	1	209	414	209	4	24	1	209	376	209	42	65
			2	354	354	64	64		2	327	327	91	91	
38,0	38,4	50	1	225	448	225	1	25	1	224	452	224	0	71
			2	383	383	67	67		2	385	385	65	65	

3.2.8.9 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

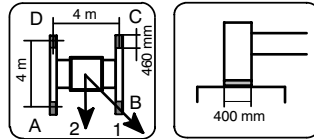


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	40	1	177	292	177	63	17	1	115	326	115	0	31
			2	260	260	125	125		2	254	254	24	24	
11,0	11,4	40	1	180	304	180	57	18	1	119	332	119	0	37
			2	270	270	121	121		2	260	260	25	25	
15,5	15,9	45	1	196	329	196	63	19	1	146	341	146	0	42
			2	294	294	128	128		2	279	279	37	37	
20,0	20,4	45	1	214	344	214	85	21	1	148	350	148	0	48
			2	306	306	123	123		2	285	285	37	37	
24,5	24,9	45	1	218	362	218	73	22	1	149	362	149	0	53
			2	320	320	116	116		2	293	293	37	37	
29,0	29,4	50	1	234	394	234	73	23	1	173	375	173	0	59
			2	347	347	120	120		2	315	315	122	122	
33,5	33,9	50	1	237	416	237	57	24	1	222	410	222	34	65
			2	364	364	110	110		2	355	355	89	89	
38,0	38,4	55	1	253	453	253	52	26	1	228	496	228	0	71
			2	394	394	111	111		2	413	413	62	62	

3.2.8.10 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

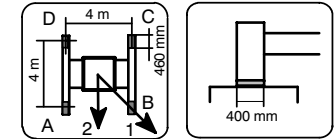


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	40	1	193	277	193	109	17	1	127	331	127	0	31
			2	252	252	134	134		2	263	263	29	29	
11,0	11,4	40	1	196	290	196	103	18	1	130	338	130	0	37
			2	262	262	130	130		2	269	269	30	30	
15,5	15,9	40	1	200	304	200	95	19	1	132	346	132	0	42
			2	274	274	125	125		2	275	275	30	30	
20,0	20,4	40	1	203	320	203	85	21	1	134	357	134	0	48
			2	286	286	120	120		2	282	282	30	30	
24,5	24,9	40	1	206	338	206	74	22	1	134	369	134	0	53
			2	299	299	113	113		2	290	290	29	29	
29,0	29,4	45	1	222	370	222	74	23	1	159	382	159	0	59
			2	327	327	117	117		2	320	320	94	94	
33,5	33,9	45	1	225	391	225	59	24	1	208	425	208	0	65
			2	343	343	107	107		2	361	361	60	60	
38,0	38,4	50	1	241	428	241	54	25	1	179	546	179	0	71
			2	373	373	109	109		2	419	419	33	33	

3.2.8.11 Center ballasts and cornerloads acc. to EN 13001

for a stationary tower crane on a stand frame without climbing drive

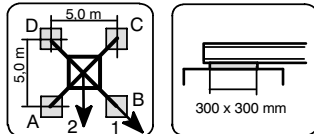


**SR 150** Corner distance 4,0 m x 4,0 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
6,5	6,9	40	1	178	267	178	89	17	1	121	342	121	0	32
			2	243	243	143	143		2	267	267	25	25	
11,0	11,4	40	1	181	279	181	83	18	1	124	349	124	0	37
			2	253	253	140	140		2	273	273	26	26	
15,5	15,9	40	1	185	292	185	77	19	1	127	358	127	0	43
			2	264	264	135	135		2	279	279	26	26	
20,0	20,4	45	1	215	320	215	111	21	1	153	368	153	0	48
			2	289	289	142	142		2	299	299	38	38	
24,5	24,9	45	1	219	337	219	100	22	1	153	380	153	0	54
			2	302	302	135	135		2	306	306	37	37	
29,0	29,4	45	1	222	356	222	88	23	1	153	394	153	0	60
			2	317	317	127	127		2	328	328	86	86	
33,5	33,9	45	1	225	377	225	73	24	1	196	450	196	0	66
			2	333	333	118	118		2	369	369	51	51	
38,0	38,4	50	1	241	413	241	69	26	1	166	572	166	0	72
			2	363	363	119	119		2	429	429	23	23	

3.2.9.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

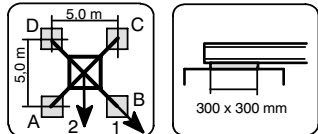


**KR 800 - 5**      Corner distance 5,0 m x 5,0 m      Jib 25 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	15	1	104	227	104	0	18	1	109	152	109	66	35
			2	189	189	28	28		2	139	139	78	78	
15,4	15,8	15	1	103	242	103	0	19	1	83	144	83	21	40
			2	198	198	26	26		2	129	129	95	95	
19,9	20,3	15	1	101	260	101	0	20	1	86	151	86	21	46
			2	207	207	23	23		2	132	132	40	40	
24,4	24,8	15	1	98	280	98	0	21	1	89	158	89	20	51
			2	218	218	20	20		2	139	139	98	98	
28,9	29,3	25	1	143	302	143	0	23	1	147	208	147	85	57
			2	254	254	40	40		2	190	190	103	103	
33,4	33,8	30	1	162	327	162	0	24	1	163	262	163	63	63
			2	278	278	47	47		2	233	233	92	92	
37,9	38,3	35	1	178	356	178	1	25	1	178	322	178	35	69
			2	304	304	53	53		2	280	280	77	77	
42,4	42,8	45	1	207	400	207	13	26	1	207	400	207	14	75
			2	343	343	70	70		2	343	343	70	70	
46,9	47,3	55	1	235	446	235	24	28	1	221	498	221	0	81
			2	384	384	116	116		2	411	411	59	59	
51,4	51,8	65	1	264	494	264	35	29	1	216	624	216	0	87
			2	427	427	131	131		2	485	485	43	43	

3.2.9.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

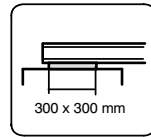
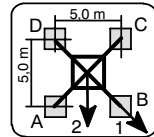


**KR 800 - 5**      Corner distance 5,0 m x 5,0 m      Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	10	1	90	209	90	0	18	1	67	136	67	0	35
			2	178	178	46	46		2	119	119	75	75	
15,4	15,8	10	1	89	224	89	0	19	1	71	142	71	0	40
			2	187	187	43	43		2	121	121	20	20	
19,9	20,3	10	1	87	241	87	0	20	1	74	149	74	0	46
			2	197	197	39	39		2	127	127	21	21	
24,4	24,8	15	1	108	260	108	0	22	1	90	168	90	11	51
			2	221	221	47	47		2	148	148	90	90	
28,9	29,3	20	1	150	285	150	14	23	1	135	209	135	60	57
			2	246	246	54	54		2	188	188	82	82	
33,4	33,8	25	1	166	315	166	16	24	1	151	264	151	38	63
			2	271	271	60	60		2	231	231	71	71	
37,9	38,3	35	1	194	359	194	29	25	1	179	336	179	22	69
			2	311	311	77	77		2	290	290	68	68	
42,4	42,8	45	1	222	405	222	40	26	1	207	415	207	0	75
			2	351	351	93	93		2	354	354	60	60	
46,9	47,3	55	1	251	453	251	48	28	1	207	529	207	0	81
			2	394	394	108	108		2	423	423	48	48	
51,4	51,8	65	1	280	503	280	57	29	1	202	656	202	0	88
			2	437	437	122	122		2	497	497	33	33	

3.2.9.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

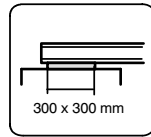
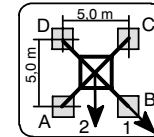


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 30 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	15	1	124	218	124	31	18	1	80	151	80	9	35
			2	191	191	58	58		2	130	130	30	30	
15,4	15,8	15	1	128	230	128	25	19	1	83	157	83	9	41
			2	200	200	55	55		2	136	136	31	31	
19,9	20,3	15	1	131	244	131	18	20	1	87	164	87	9	46
			2	211	211	51	51		2	141	141	32	32	
24,4	24,8	15	1	134	258	134	11	22	1	90	171	90	9	52
			2	222	222	47	47		2	153	153	86	86	
28,9	29,3	20	1	150	286	150	14	23	1	135	216	135	54	57
			2	246	246	54	54		2	192	192	78	78	
33,4	33,8	25	1	166	316	166	16	24	1	151	270	151	31	63
			2	272	272	60	60		2	235	235	66	66	
37,9	38,3	35	1	194	360	194	28	25	1	179	343	179	15	69
			2	311	311	77	77		2	295	295	63	63	
42,4	42,8	40	1	210	393	210	26	27	1	175	429	175	0	75
			2	340	340	80	80		2	347	347	43	43	
46,9	47,3	50	1	238	441	238	35	28	1	174	544	174	0	81
			2	382	382	94	94		2	416	416	30	30	
51,4	51,8	70	1	292	516	292	68	29	1	219	673	219	0	88
			2	451	451	134	134		2	515	515	39	39	

3.2.9.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

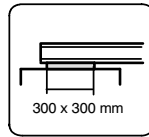
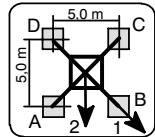


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	15	1	125	229	125	21	18	1	80	162	80	0	35
			2	199	199	51	51		2	138	138	23	23	
15,4	15,8	15	1	128	241	128	15	19	1	84	168	84	0	41
			2	208	208	48	48		2	144	144	24	24	
19,9	20,3	15	1	132	255	132	8	20	1	87	175	87	0	46
			2	219	219	44	44		2	149	149	25	25	
24,4	24,8	15	1	135	269	135	0	22	1	90	184	90	0	52
			2	230	230	40	40		2	163	163	77	77	
28,9	29,3	20	1	129	294	129	0	23	1	123	218	123	28	58
			2	242	242	34	34		2	191	191	56	56	
33,4	33,8	25	1	147	323	147	0	24	1	139	274	139	4	64
			2	268	268	40	40		2	234	234	44	44	
37,9	38,3	30	1	182	360	182	4	25	1	155	359	155	0	70
			2	308	308	56	56		2	294	294	40	40	
42,4	42,8	40	1	210	406	210	15	27	1	160	462	160	0	76
			2	349	349	72	72		2	359	359	32	32	
46,9	47,3	55	1	251	467	251	35	28	1	183	579	183	0	82
			2	404	404	98	98		2	441	441	31	31	
51,4	51,8	75	1	306	543	306	68	29	1	227	708	227	0	88
			2	473	473	138	138		2	541	541	40	40	

3.2.9.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

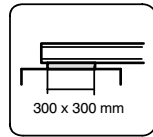
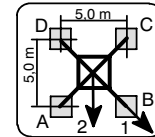


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 35 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
☺ [m]	☽ [m]			corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	15	1	115	226	115	4	18	1	72	181	72	0	36
			2	193	193	37	37		2	145	145	17	17	
15,4	15,8	15	1	118	237	118	0	19	1	75	187	75	0	41
			2	202	202	34	34		2	151	151	18	18	
19,9	20,3	15	1	116	255	116	0	20	1	78	194	78	0	47
			2	212	212	31	31		2	157	157	19	19	
24,4	24,8	20	1	137	275	137	0	22	1	103	205	103	2	52
			2	235	235	40	40		2	175	175	32	32	
28,9	29,3	20	1	133	298	133	0	23	1	141	220	141	61	58
			2	246	246	35	35		2	197	197	84	84	
33,4	33,8	25	1	151	324	151	0	24	1	156	275	156	37	64
			2	271	271	42	42		2	241	241	72	72	
37,9	38,3	35	1	185	361	185	8	25	1	185	349	185	20	70
			2	309	309	90	90		2	301	301	68	68	
42,4	42,8	40	1	200	393	200	8	27	1	185	432	185	0	76
			2	338	338	93	93		2	353	353	48	48	
46,9	47,3	55	1	241	452	241	30	28	1	208	549	208	0	82
			2	392	392	120	120		2	436	436	47	47	
51,4	51,8	65	1	270	501	270	40	29	1	201	680	201	0	89
			2	437	437	134	134		2	511	511	30	30	

3.2.9.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive



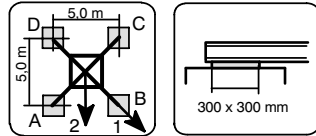
**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 37,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
☺ [m]	☽ [m]			corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	20	1	143	234	143	52	18	1	85	207	85	0	36
			2	208	208	79	79		2	168	168	21	21	
15,4	15,8	20	1	146	246	146	46	19	1	89	213	89	0	41
			2	217	217	76	76		2	173	173	22	22	
19,9	20,3	20	1	150	260	150	39	21	1	92	220	92	0	47
			2	228	228	72	72		2	179	179	23	23	
24,4	24,8	20	1	153	275	153	31	22	1	94	229	94	0	53
			2	239	239	67	67		2	185	185	23	23	
28,9	29,3	25	1	169	303	169	34	23	1	154	250	154	57	58
			2	264	264	74	74		2	222	222	85	85	
33,4	33,8	25	1	172	321	172	23	24	1	157	294	157	20	64
			2	277	277	67	67		2	254	254	60	60	
37,9	38,3	30	1	188	353	188	23	25	1	163	365	163	0	70
			2	304	304	71	71		2	302	302	44	44	
42,4	42,8	40	1	216	399	216	33	27	1	167	470	167	0	76
			2	345	345	87	87		2	367	367	35	35	
46,9	47,3	55	1	257	460	257	53	28	1	189	589	189	0	83
			2	401	401	113	113		2	450	450	33	33	
51,4	51,8	75	1	311	536	311	86	29	1	232	722	232	0	89
			2	470	470	152	152		2	551	551	41	41	



3.2.9.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

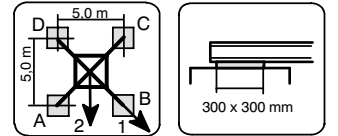


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 40 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
☹	☺			corner loads						corner loads				
[m]	[m]			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	20	1	143	237	143	49	18	1	82	214	82	0	36
				2	209	209	77			77	2	170	170	
15,4	15,8	20	1	146	249	146	44	19	1	86	220	86	0	42
				2	219	219	74			74	2	176	176	
19,9	20,3	20	1	150	262	150	37	21	1	88	227	88	0	47
				2	229	229	70			70	2	182	182	
24,4	24,8	25	1	165	290	165	41	22	1	116	236	116	0	53
				2	253	253	77			77	2	200	200	
28,9	29,3	25	1	169	306	169	31	23	1	154	257	154	50	59
				2	266	266	72			72	2	227	227	
33,4	33,8	25	1	172	323	172	20	24	1	157	301	157	13	65
				2	279	279	65			65	2	259	259	
37,9	38,3	30	1	188	355	188	20	26	1	155	380	155	0	71
				2	306	306	69			69	2	307	307	
42,4	42,8	40	1	216	402	216	30	27	1	159	486	159	0	77
				2	347	347	84			84	2	373	373	
46,9	47,3	55	1	257	463	257	50	28	1	180	607	180	0	83
				2	403	403	111			111	2	456	456	
51,4	51,8	75	1	311	539	311	83	29	1	222	740	222	0	89
				2	472	472	150			150	2	558	558	

3.2.9.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

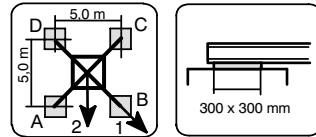


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 42,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
☹	☺			corner loads						corner loads				
[m]	[m]			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	25	1	146	256	146	36	18	1	94	242	94	0	37
				2	224	224	68			68	2	193	193	
15,4	15,8	25	1	149	267	149	31	19	1	98	248	98	0	42
				2	233	233	66			66	2	199	199	
19,9	20,3	25	1	152	280	152	25	21	1	101	256	101	0	48
				2	242	242	62			62	2	205	205	
24,4	24,8	30	1	168	306	168	30	22	1	128	264	128	0	53
				2	266	266	71			71	2	223	223	
28,9	29,3	30	1	171	321	171	22	23	1	129	275	129	0	59
				2	277	277	66			66	2	236	236	
33,4	33,8	30	1	175	337	175	12	24	1	175	307	175	42	65
				2	290	290	60			60	2	268	268	
37,9	38,3	35	1	190	368	190	13	26	1	190	370	190	11	71
				2	316	316	65			65	2	317	317	
42,4	42,8	40	1	206	401	206	12	27	1	181	464	181	0	77
				2	344	344	69			69	2	371	371	
46,9	47,3	50	1	235	448	235	21	28	1	176	586	176	0	83
				2	385	385	84			84	2	442	442	
51,4	51,8	70	1	289	522	289	56	29	1	217	721	217	0	90
				2	454	454	124			124	2	544	544	

3.2.9.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

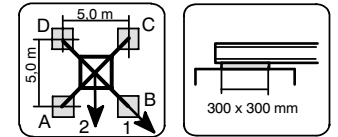


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	30	1	174	258	174	89	18	1	108	266	108	0	37
			2	233	233	114	114		2	214	214	26	26	
15,4	15,8	30	1	177	270	177	84	20	1	112	272	112	0	42
			2	243	243	111	111		2	220	220	27	27	
19,9	20,3	30	1	180	284	180	77	21	1	114	280	114	0	48
			2	253	253	107	107		2	226	226	28	28	
24,4	24,8	30	1	183	298	183	68	22	1	116	289	116	0	54
			2	265	265	102	102		2	233	233	28	28	
28,9	29,3	35	1	199	327	199	71	23	1	143	299	143	0	59
			2	290	290	109	109		2	260	260	108	108	
33,4	33,8	35	1	202	345	202	60	24	1	187	337	187	38	65
			2	303	303	102	102		2	293	293	82	82	
37,9	38,3	35	1	206	364	206	47	26	1	185	393	185	0	71
			2	318	318	93	93		2	330	330	52	52	
42,4	42,8	40	1	221	399	221	44	27	1	163	501	163	0	77
			2	347	347	96	96		2	384	384	29	29	
46,9	47,3	55	1	262	460	262	64	28	1	183	624	183	0	84
			2	402	402	122	122		2	468	468	26	26	
51,4	51,8	75	1	317	536	317	97	29	1	223	761	223	0	90
			2	472	472	161	161		2	571	571	32	32	

3.2.9.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

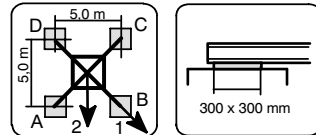


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	25	1	162	237	162	87	18	1	95	270	95	0	37
			2	215	215	109	109		2	211	211	19	19	
15,4	15,8	25	1	165	249	165	82	19	1	98	277	98	0	42
			2	224	224	106	106		2	216	216	20	20	
19,9	20,3	25	1	168	262	168	75	21	1	101	285	101	0	48
			2	235	235	102	102		2	222	222	21	21	
24,4	24,8	30	1	184	289	184	79	22	1	128	294	128	0	54
			2	259	259	110	110		2	241	241	33	33	
28,9	29,3	30	1	187	305	187	70	23	1	129	305	129	0	59
			2	271	271	104	104		2	262	262	83	83	
33,4	33,8	30	1	191	323	191	59	24	1	176	344	176	7	65
			2	284	284	97	97		2	295	295	56	56	
37,9	38,3	30	1	194	342	194	46	26	1	142	432	142	0	71
			2	299	299	89	89		2	332	332	26	26	
42,4	42,8	45	1	235	401	235	69	27	1	169	542	169	0	77
			2	352	352	117	117		2	412	412	28	28	
46,9	47,3	65	1	288	475	288	101	28	1	213	667	213	0	84
			2	420	420	156	156		2	509	509	37	37	
51,4	51,8	85	1	342	550	342	134	29	1	252	805	252	0	90
			2	489	489	195	195		2	612	612	43	43	

3.2.9.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

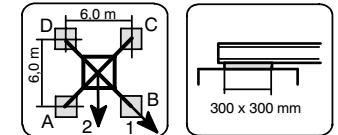


**KR 800 - 5** Corner distance 5,0 m x 5,0 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,9	11,3	30	1	175	238	175	111	18	1	116	279	116	0	37
			2	220	220	129	129		2	226	226	29	29	
15,4	15,8	30	1	178	251	178	105	20	1	119	286	119	0	43
			2	229	229	126	126		2	232	232	30	30	
19,9	20,3	30	1	181	264	181	98	21	1	121	294	121	0	48
			2	240	240	122	122		2	238	238	30	30	
24,4	24,8	30	1	184	278	184	90	22	1	123	304	123	0	54
			2	251	251	118	118		2	245	245	30	30	
28,9	29,3	30	1	188	294	188	81	23	1	124	315	124	0	60
			2	263	263	112	112		2	269	269	76	76	
33,4	33,8	30	1	191	312	191	70	24	1	174	356	174	0	66
			2	276	276	105	105		2	302	302	50	50	
37,9	38,3	35	1	207	343	207	70	26	1	157	454	157	0	72
			2	303	303	110	110		2	352	352	31	31	
42,4	42,8	50	1	247	402	247	93	27	1	183	564	183	0	78
			2	357	357	138	138		2	432	432	33	33	
46,9	47,3	65	1	288	463	288	114	28	1	201	691	201	0	84
			2	411	411	165	165		2	518	518	29	29	
51,4	51,8	85	1	342	538	342	147	30	1	240	831	240	0	91
			2	481	481	204	204		2	621	621	33	33	

3.2.10.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

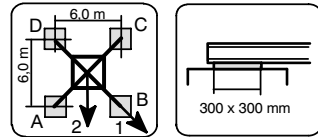


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	5	1	78	202	78	0	19	1	60	112	60	9	41
			2	161	161	18	18		2	103	103	76	76	
19,9	20,3	5	1	78	216	78	0	21	1	64	118	64	9	47
			2	170	170	16	16		2	102	102	25	25	
24,4	24,8	10	1	101	232	101	0	22	1	79	137	79	22	52
			2	191	191	26	26		2	126	126	91	91	
28,9	29,3	15	1	124	251	124	0	23	1	124	176	124	73	58
			2	213	213	36	36		2	161	161	88	88	
33,4	33,8	20	1	140	276	140	4	24	1	140	223	140	57	64
			2	236	236	74	74		2	199	199	81	81	
37,9	38,3	25	1	156	303	156	9	26	1	156	275	156	37	70
			2	261	261	81	81		2	240	240	72	72	
42,4	42,8	30	1	172	332	172	12	27	1	172	332	172	11	76
			2	286	286	87	87		2	285	285	58	58	
46,9	47,3	40	1	200	374	200	26	28	1	194	413	194	0	82
			2	325	325	105	105		2	346	346	54	54	
51,4	51,8	50	1	228	418	228	38	29	1	198	518	198	0	88
			2	366	366	121	121		2	411	411	45	45	

3.2.10.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

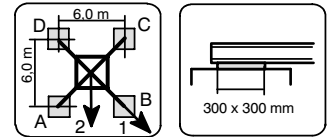


**KR 800 - 6** Corner distance 6,0 m x 6,0 m Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	5	1	105	190	105	20	19	1	61	120	61	1	41
			2	165	165	45	45		2	103	103	19	19	
19,9	20,3	5	1	108	202	108	15	21	1	64	126	64	2	47
			2	174	174	43	43		2	108	108	20	20	
24,4	24,8	5	1	85	217	85	0	22	1	67	133	67	2	53
			2	184	184	39	39		2	121	121	72	72	
28,9	29,3	10	1	128	240	128	15	23	1	113	175	113	50	58
			2	207	207	48	48		2	157	157	68	68	
33,4	33,8	15	1	143	267	143	20	24	1	128	223	128	34	64
			2	231	231	56	56		2	195	195	61	61	
37,9	38,3	20	1	159	296	159	23	26	1	144	275	144	13	70
			2	256	256	63	63		2	237	237	51	51	
42,4	42,8	30	1	187	338	187	37	27	1	172	345	172	0	76
			2	294	294	81	81		2	294	294	50	50	
46,9	47,3	35	1	203	370	203	37	28	1	157	438	157	0	82
			2	321	321	85	85		2	343	343	33	33	
51,4	51,8	45	1	231	416	231	47	29	1	161	544	161	0	89
			2	362	362	101	101		2	409	409	24	24	

3.2.10.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

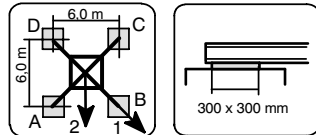


**KR 800 - 6** Corner distance 6,0 m x 6,0 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	5	1	105	191	105	20	20	1	61	123	61	0	42
			2	166	166	45	45		2	105	105	17	17	
19,9	20,3	5	1	109	202	109	15	21	1	64	129	64	0	47
			2	175	175	42	42		2	110	110	19	19	
24,4	24,8	5	1	112	215	112	9	22	1	97	137	97	57	53
			2	185	185	39	39		2	125	125	69	69	
28,9	29,3	10	1	128	241	128	15	23	1	113	180	113	45	59
			2	208	208	48	48		2	161	161	65	65	
33,4	33,8	15	1	143	268	143	19	24	1	128	228	128	29	64
			2	231	231	55	55		2	199	199	58	58	
37,9	38,3	20	1	159	296	159	22	26	1	144	281	144	8	70
			2	256	256	62	62		2	241	241	48	48	
42,4	42,8	30	1	187	339	187	36	27	1	167	356	167	0	76
			2	295	295	80	80		2	299	299	46	46	
46,9	47,3	35	1	203	371	203	36	28	1	151	451	151	0	83
			2	322	322	85	85		2	348	348	29	29	
51,4	51,8	50	1	244	429	244	59	29	1	180	557	180	0	89
			2	375	375	113	113		2	426	426	32	32	

3.2.10.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

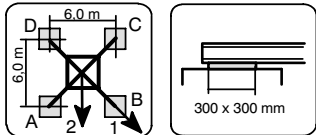


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	5	1	106	200	106	12	20	1	53	140	53	0	42
			2	173	173	39	39		2	111	111	12	12	
19,9	20,3	10	1	122	224	122	19	21	1	77	151	77	4	48
			2	194	194	49	49		2	129	129	25	25	
24,4	24,8	10	1	125	237	125	13	22	1	110	162	110	58	53
			2	204	204	46	46		2	146	146	74	74	
28,9	29,3	10	1	128	250	128	6	23	1	113	193	113	33	59
			2	215	215	42	42		2	170	170	57	57	
33,4	33,8	10	1	130	267	130	0	25	1	117	229	117	4	65
			2	226	226	37	37		2	196	196	37	37	
37,9	38,3	20	1	160	307	160	13	26	1	141	299	141	0	71
			2	264	264	56	56		2	251	251	39	39	
42,4	42,8	25	1	176	337	176	14	27	1	130	383	130	0	77
			2	290	290	61	61		2	296	296	25	25	
46,9	47,3	40	1	216	394	216	38	28	1	164	479	164	0	83
			2	342	342	91	91		2	371	371	32	32	
51,4	51,8	55	1	257	453	257	61	30	1	191	587	191	0	89
			2	396	396	118	118		2	450	450	34	34	

3.2.10.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

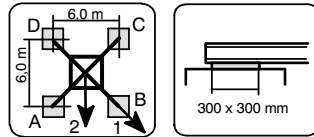


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	10	1	108	207	108	10	20	1	71	156	71	0	42
			2	178	178	38	38		2	130	130	19	19	
19,9	20,3	10	1	112	218	112	5	21	1	75	162	75	0	48
			2	187	187	37	37		2	135	135	20	20	
24,4	24,8	10	1	115	229	115	0	22	1	78	169	78	0	54
			2	196	196	64	64		2	142	142	88	88	
28,9	29,3	10	1	113	247	113	0	23	1	118	185	118	51	59
			2	207	207	60	60		2	165	165	71	71	
33,4	33,8	15	1	134	268	134	0	25	1	134	233	134	35	65
			2	231	231	67	67		2	204	204	64	64	
37,9	38,3	20	1	150	296	150	4	26	1	150	287	150	13	71
			2	255	255	74	74		2	246	246	53	53	
42,4	42,8	30	1	178	337	178	19	27	1	177	358	177	0	77
			2	294	294	92	92		2	305	305	51	51	
46,9	47,3	35	1	194	368	194	20	28	1	161	454	161	0	83
			2	321	321	97	97		2	355	355	33	33	
51,4	51,8	50	1	250	426	250	73	29	1	188	563	188	0	90
			2	374	374	125	125		2	434	434	35	35	

3.2.10.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

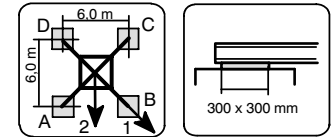


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	15	1	136	220	136	53	20	1	87	178	87	0	43
			2	195	195	77	77		2	151	151	25	25	
19,9	20,3	15	1	140	231	140	48	21	1	90	184	90	0	48
			2	205	205	75	75		2	156	156	26	26	
24,4	24,8	15	1	143	244	143	42	22	1	93	191	93	0	54
			2	214	214	72	72		2	165	165	91	91	
28,9	29,3	15	1	146	258	146	35	23	1	131	212	131	50	60
			2	225	225	67	67		2	188	188	74	74	
33,4	33,8	15	1	150	273	150	26	25	1	135	249	135	21	65
			2	237	237	63	63		2	215	215	54	54	
37,9	38,3	15	1	153	289	153	17	26	1	124	303	124	0	71
			2	249	249	57	57		2	245	245	31	31	
42,4	42,8	25	1	181	332	181	30	27	1	138	389	138	0	78
			2	288	288	75	75		2	304	304	28	28	
46,9	47,3	35	1	209	377	209	42	28	1	146	487	146	0	84
			2	328	328	91	91		2	367	367	22	22	
51,4	51,8	55	1	263	448	263	77	30	1	197	598	197	0	90
			2	394	394	131	131		2	459	459	36	36	

3.2.10.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

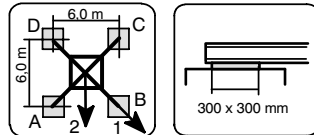


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	15	1	136	222	136	51	20	1	84	183	84	0	43
			2	197	197	76	76		2	153	153	23	23	
19,9	20,3	15	1	140	233	140	46	21	1	88	189	88	0	48
			2	206	206	73	73		2	158	158	24	24	
24,4	24,8	15	1	143	246	143	40	22	1	91	197	91	0	54
			2	216	216	70	70		2	169	169	87	87	
28,9	29,3	15	1	146	260	146	32	24	1	131	218	131	45	60
			2	227	227	66	66		2	193	193	70	70	
33,4	33,8	15	1	149	275	149	24	25	1	134	255	134	14	66
			2	238	238	61	61		2	219	219	50	50	
37,9	38,3	20	1	165	304	165	27	26	1	143	316	143	0	72
			2	263	263	67	67		2	262	262	38	38	
42,4	42,8	25	1	181	334	181	28	27	1	131	403	131	0	78
			2	289	289	73	73		2	309	309	23	23	
46,9	47,3	40	1	222	392	222	52	28	1	163	501	163	0	84
			2	342	342	102	102		2	384	384	29	29	
51,4	51,8	55	1	263	451	263	74	30	1	189	613	189	0	90
			2	396	396	129	129		2	464	464	31	31	

3.2.10.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

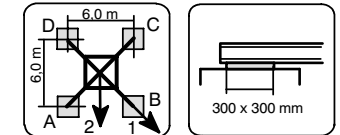


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 42,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	20	1	139	238	139	41	20	1	99	207	99	0	43
				2	209	209	70			70	2	174	174	
19,9	20,3	20	1	142	248	142	37	21	1	102	213	102	0	49
				2	217	217	68			68	2	180	180	
24,4	24,8	20	1	146	260	146	31	22	1	105	220	105	0	54
				2	227	227	65			65	2	185	185	
28,9	29,3	20	1	149	273	149	25	24	1	107	228	107	0	60
				2	237	237	61			61	2	203	203	
33,4	33,8	20	1	152	287	152	17	25	1	152	263	152	42	66
				2	248	248	57			57	2	230	230	
37,9	38,3	20	1	156	302	156	9	26	1	156	304	156	7	72
				2	259	259	52			52	2	261	261	
42,4	42,8	25	1	171	332	171	11	27	1	151	385	151	0	78
				2	285	285	58			58	2	308	308	
46,9	47,3	35	1	200	375	200	24	28	1	157	484	157	0	84
				2	324	324	106			106	2	371	371	
51,4	51,8	50	1	240	433	240	47	30	1	183	597	183	0	91
				2	377	377	133			133	2	452	452	

3.2.10.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

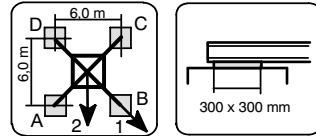


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 45 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	20	1	154	232	154	77	20	1	90	227	90	0	43
				2	209	209	99			99	2	182	182	
19,9	20,3	20	1	158	244	158	72	21	1	93	233	93	0	49
				2	219	219	97			97	2	187	187	
24,4	24,8	20	1	161	256	161	65	22	1	96	240	96	0	55
				2	229	229	93			93	2	193	193	
28,9	29,3	25	1	177	283	177	71	24	1	162	252	162	71	61
				2	252	252	102			102	2	226	226	
33,4	33,8	25	1	180	298	180	62	25	1	165	289	165	41	66
				2	263	263	97			97	2	253	253	
37,9	38,3	25	1	183	314	183	52	26	1	168	331	168	5	72
				2	276	276	91			91	2	284	284	
42,4	42,8	25	1	187	332	187	41	27	1	136	415	136	0	79
				2	290	290	83			83	2	318	318	
46,9	47,3	40	1	227	390	227	65	29	1	167	515	167	0	85
				2	342	342	112			112	2	395	395	
51,4	51,8	55	1	268	450	268	87	30	1	192	630	192	0	91
				2	396	396	140			140	2	476	476	

3.2.10.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive

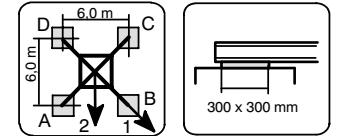


**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	20	1	155	225	155	86	20	1	102	230	102	0	43
			2	205	205	106	106		2	190	190	27	27	
19,9	20,3	20	1	159	237	159	81	21	1	105	237	105	0	49
			2	214	214	103	103		2	196	196	28	28	
24,4	24,8	20	1	162	249	162	75	22	1	108	245	108	0	55
			2	224	224	100	100		2	201	201	93	93	
28,9	29,3	20	1	165	263	165	67	24	1	150	256	150	44	61
			2	234	234	96	96		2	225	225	75	75	
33,4	33,8	20	1	168	278	168	59	25	1	153	294	153	13	66
			2	246	246	91	91		2	253	253	54	54	
37,9	38,3	20	1	172	294	172	49	26	1	134	359	134	0	72
			2	258	258	85	85		2	284	284	30	30	
42,4	42,8	30	1	200	337	200	63	27	1	146	448	146	0	79
			2	297	297	103	103		2	344	344	26	26	
46,9	47,3	45	1	241	394	241	87	28	1	176	550	176	0	85
			2	349	349	132	132		2	420	420	31	31	
51,4	51,8	60	1	281	453	281	110	30	1	200	666	200	0	91
			2	403	403	160	160		2	502	502	31	31	

3.2.10.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame without climbing drive



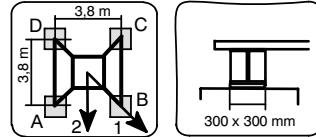
**KR 800 - 6** Corner distance 6,0 m x 6,0 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
15,4	15,8	20	1	155	216	155	95	20	1	98	238	98	0	44
			2	198	198	112	112		2	193	193	24	24	
19,9	20,3	20	1	159	228	159	90	21	1	101	245	101	0	50
			2	207	207	110	110		2	198	198	25	25	
24,4	24,8	20	1	162	240	162	84	22	1	104	252	104	0	55
			2	217	217	107	107		2	206	206	88	88	
28,9	29,3	20	1	165	254	165	77	24	1	150	264	150	37	61
			2	228	228	103	103		2	231	231	70	70	
33,4	33,8	20	1	168	268	168	68	25	1	153	302	153	5	67
			2	239	239	98	98		2	258	258	48	48	
37,9	38,3	20	1	172	285	172	59	26	1	126	376	126	0	73
			2	252	252	92	92		2	290	290	24	24	
42,4	42,8	30	1	200	327	200	73	27	1	137	467	137	0	79
			2	290	290	110	110		2	350	350	20	20	
46,9	47,3	45	1	241	384	241	98	29	1	167	570	167	0	85
			2	342	342	140	140		2	428	428	24	24	
51,4	51,8	65	1	294	455	294	133	30	1	215	688	215	0	92
			2	408	408	180	180		2	522	522	36	36	



3.3.1.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

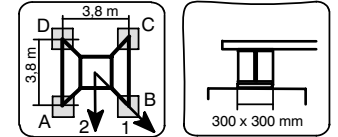


**KRE 138** Corner distance 3,8 m x 3,8 m Jib 25 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	30	1	127	297	127	0	18	1	138	196	138	79	37
			2	243	243	32	32		2	179	179	96	96	
14,0	14,4	30	1	124	316	124	0	19	1	111	192	111	31	43
			2	253	253	29	29		2	169	169	54	54	
18,5	18,9	30	1	120	337	120	0	20	1	115	200	115	30	48
			2	264	264	25	25		2	175	175	55	55	
23,0	23,4	35	1	139	362	139	0	21	1	131	220	131	41	54
			2	288	288	32	32		2	194	194	67	67	
27,5	27,9	40	1	157	390	157	0	22	1	176	247	176	105	59
			2	314	314	38	38		2	226	226	125	125	
32,0	32,4	50	1	198	421	198	0	24	1	204	323	204	85	65
			2	353	353	55	55		2	288	288	120	120	

3.3.1.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

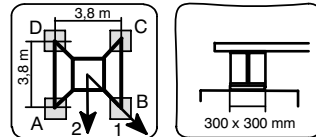


**KRE 138** Corner distance 3,8 m x 3,8 m Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	30	1	138	275	138	2	18	1	109	199	109	19	37
			2	239	239	68	68		2	172	172	45	45	
14,0	14,4	30	1	138	291	138	0	19	1	112	205	112	19	43
			2	250	250	63	63		2	178	178	46	46	
18,5	18,9	30	1	133	312	133	0	20	1	115	213	115	18	48
			2	262	262	58	58		2	184	184	46	46	
23,0	23,4	30	1	128	337	128	0	21	1	119	221	119	16	54
			2	275	275	51	51		2	191	191	46	46	
27,5	27,9	40	1	191	365	191	18	23	1	176	264	176	88	60
			2	314	314	68	68		2	239	239	114	114	
32,0	32,4	45	1	207	398	207	16	24	1	192	328	192	56	65
			2	342	342	72	72		2	288	288	96	96	

3.3.1.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

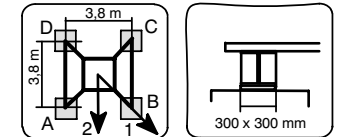


**KRE 138** Corner distance 3,8 m x 3,8 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	30	1	153	275	153	31	18	1	109	202	109	16	38
			2	239	239	67	67		2	175	175	43	43	
14,0	14,4	30	1	157	289	157	24	19	1	112	209	112	15	43
			2	250	250	63	63		2	181	181	44	44	
18,5	18,9	30	1	137	306	137	0	20	1	116	217	115	14	48
			2	262	262	57	57		2	187	187	44	44	
23,0	23,4	30	1	131	330	131	0	21	1	119	225	119	13	54
			2	276	276	51	51		2	194	194	44	44	
27,5	27,9	35	1	149	358	149	0	23	1	164	260	164	68	60
			2	302	302	55	55		2	232	232	96	96	
32,0	32,4	45	1	207	399	207	15	24	1	192	337	192	47	66
			2	343	343	71	71		2	295	295	90	90	

3.3.1.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

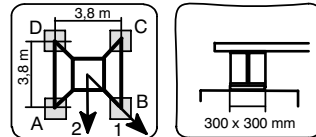


**KRE 138** Corner distance 3,8 m x 3,8 m Jib 32,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	35	1	166	302	166	31	18	1	122	229	122	15	38
			2	262	262	71	71		2	198	198	46	46	
14,0	14,4	35	1	170	316	170	23	19	1	125	236	125	15	43
			2	273	273	66	66		2	204	204	47	47	
18,5	18,9	35	1	173	332	173	14	20	1	129	244	129	13	49
			2	285	285	60	60		2	210	210	47	47	
23,0	23,4	35	1	176	349	176	3	22	1	132	252	132	12	54
			2	299	299	54	54		2	217	217	47	47	
27,5	27,9	35	1	170	378	170	0	23	1	165	279	164	50	60
			2	313	313	46	46		2	246	246	83	83	
32,0	32,4	40	1	184	413	184	0	24	1	180	344	180	16	66
			2	342	342	49	49		2	296	296	64	64	

3.3.1.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

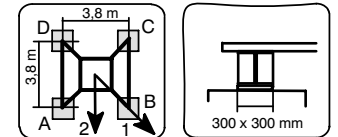


**KRE 138** Corner distance 3,8 m x 3,8 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	30	1	144	289	144	0	18	1	101	238	101	0	38
			2	246	246	42	42		2	194	194	25	25	
14,0	14,4	30	1	141	308	140	0	19	1	104	246	104	0	44
			2	256	256	38	38		2	200	200	26	26	
18,5	18,9	30	1	136	330	136	0	20	1	106	255	106	0	49
			2	267	267	33	33		2	207	207	26	26	
23,0	23,4	35	1	155	355	155	0	22	1	132	265	132	0	55
			2	292	292	40	40		2	226	226	38	38	
27,5	27,9	35	1	147	384	147	0	23	1	133	277	133	0	60
			2	305	305	34	34		2	236	236	103	103	
32,0	32,4	45	1	188	416	188	0	24	1	198	341	198	54	66
			2	345	345	50	50		2	299	299	96	96	

3.3.1.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

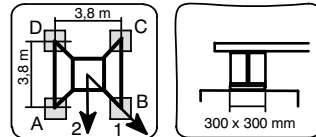


**KRE 138** Corner distance 3,8 m x 3,8 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	35	1	172	290	172	54	18	1	110	272	110	0	38
			2	256	256	88	88		2	220	220	27	27	
14,0	14,4	35	1	175	305	175	46	19	1	113	280	113	0	44
			2	267	267	84	84		2	225	225	27	27	
18,5	18,9	35	1	179	320	178	37	20	1	115	289	115	0	49
			2	279	279	78	78		2	232	232	27	27	
23,0	23,4	40	1	194	350	194	38	22	1	141	299	141	0	55
			2	305	305	84	84		2	251	251	39	39	
27,5	27,9	40	1	198	370	197	25	23	1	142	311	142	0	61
			2	319	319	76	76		2	265	265	100	100	
32,0	32,4	45	1	213	403	213	23	24	1	198	365	198	32	67
			2	348	348	79	79		2	316	316	81	81	

3.3.1.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

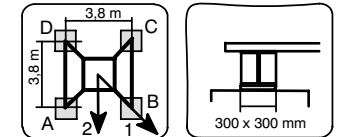


**KRE 138** Corner distance 3,8 m x 3,8 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	35	1	172	293	172	50	18	1	106	281	106	0	39
			2	258	258	86	86		2	223	223	24	24	
14,0	14,4	35	1	175	308	175	43	19	1	109	289	109	0	44
			2	269	269	81	81		2	229	229	24	24	
18,5	18,9	40	1	191	336	191	46	21	1	136	298	136	0	50
			2	294	294	88	88		2	248	248	37	37	
23,0	23,4	40	1	194	354	194	35	22	1	137	309	137	0	55
			2	307	307	81	81		2	255	255	36	36	
27,5	27,9	40	1	197	373	197	22	23	1	137	321	137	0	61
			2	322	322	73	73		2	271	271	94	94	
32,0	32,4	45	1	213	407	213	20	24	1	198	374	198	22	67
			2	350	350	76	76		2	323	323	74	74	

3.3.1.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

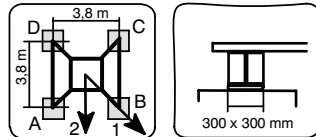


**KRE 138** Corner distance 3,8 m x 3,8 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	40	1	175	318	175	31	18	1	114	318	114	0	39
			2	276	276	73	73		2	249	249	24	24	
14,0	14,4	45	1	190	344	190	37	19	1	142	325	142	0	44
			2	299	299	82	82		2	267	267	37	37	
18,5	18,9	45	1	194	359	194	29	20	1	144	335	144	0	50
			2	310	310	77	77		2	274	274	37	37	
23,0	23,4	45	1	197	375	197	19	22	1	145	346	145	0	56
			2	323	323	71	71		2	281	281	36	36	
27,5	27,9	50	1	213	405	213	20	23	1	170	358	170	0	61
			2	349	349	77	77		2	301	301	48	48	
32,0	32,4	50	1	216	425	216	7	24	1	216	377	216	55	67
			2	364	364	68	68		2	330	330	102	102	

3.3.1.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

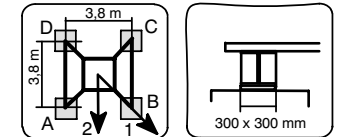


**KRE 138** Corner distance 3,8 m x 3,8 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	45	1	187	315	187	59	18	1	124	349	124	0	39
			2	279	279	125	125		2	273	273	26	26	
14,0	14,4	50	1	203	341	203	65	19	1	152	357	152	0	45
			2	303	303	133	133		2	291	291	39	39	
18,5	18,9	50	1	206	356	206	57	21	1	154	366	154	0	50
			2	316	316	127	127		2	298	298	39	39	
23,0	23,4	50	1	225	372	225	77	22	1	155	378	155	0	56
			2	329	329	120	120		2	305	305	38	38	
27,5	27,9	55	1	241	404	240	77	23	1	180	390	180	0	62
			2	356	356	125	125		2	326	326	49	49	
32,0	32,4	55	1	244	425	244	62	24	1	229	411	229	47	68
			2	372	372	115	115		2	358	358	100	100	

3.3.1.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

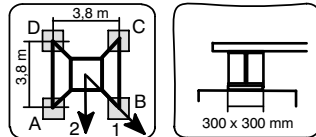


**KRE 138** Corner distance 3,8 m x 3,8 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	45	1	203	300	203	107	18	1	135	355	135	0	39
			2	271	271	135	135		2	282	282	31	31	
14,0	14,4	45	1	207	314	206	99	19	1	138	363	138	0	45
			2	283	283	130	130		2	288	288	31	31	
18,5	18,9	45	1	210	330	210	89	21	1	140	373	139	0	50
			2	295	295	125	125		2	295	295	31	31	
23,0	23,4	45	1	213	348	213	79	22	1	140	384	140	0	56
			2	308	308	118	118		2	302	302	30	30	
27,5	27,9	50	1	229	379	229	78	23	1	165	398	165	0	62
			2	335	335	122	122		2	324	324	104	104	
32,0	32,4	50	1	232	400	232	64	24	1	217	425	217	10	68
			2	351	351	113	113		2	364	364	70	70	

3.3.1.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

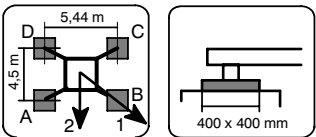


**KRE 138** Corner distance 3,8 m x 3,8 m Jib 50 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,5	9,9	45	1	188	290	188	87	18	1	130	367	130	0	40
			2	262	262	145	145		2	286	286	27	27	
14,0	14,4	45	1	192	303	192	80	19	1	132	375	132	0	45
			2	273	273	140	140		2	292	292	27	27	
18,5	18,9	45	1	195	317	195	72	21	1	134	385	134	0	51
			2	285	285	135	135		2	299	299	27	27	
23,0	23,4	50	1	226	346	226	105	22	1	159	396	159	0	57
			2	311	311	141	141		2	319	319	38	38	
27,5	27,9	50	1	229	365	229	93	23	1	159	410	159	0	62
			2	325	325	133	133		2	332	332	96	96	
32,0	32,4	50	1	232	386	232	79	24	1	215	440	215	0	68
			2	341	341	124	124		2	373	373	62	62	

3.3.2.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

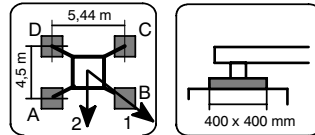


**KRE 250** Corner distance 4,5 m x 5,44 m Jib 25 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	20	1	143	245	97	0	19	1	104	154	80	29	43
			2	216	216	27	27		2	141	141	101	101	
18,5	18,9	20	1	143	261	94	0	20	1	107	161	83	29	48
			2	225	225	24	24		2	146	146	44	44	
23,0	23,4	25	1	166	280	114	0	21	1	124	180	98	41	54
			2	248	248	32	32		2	164	164	57	57	
27,5	27,9	30	1	184	307	128	5	23	1	166	211	146	100	60
			2	272	272	40	40		2	199	199	113	113	
32,0	32,4	35	1	202	335	141	9	24	1	189	264	154	79	66
			2	297	297	46	46		2	243	243	101	101	
36,5	36,9	45	1	233	376	167	24	25	1	225	335	175	65	71
			2	336	336	64	64		2	304	304	96	96	
41,0	41,4	55	1	264	419	192	37	26	1	262	411	194	46	77
			2	376	376	81	81		2	369	369	88	88	

3.3.2.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

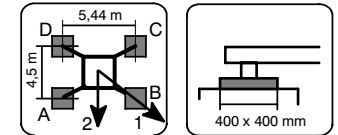


**KRE 250** Corner distance 4,5 m x 5,44 m Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	15	1	143	227	105	22	19	1	93	152	66	7	43		
			2	203	203	45	45		2	136	136	24	24			
18,5	18,9	15	1	127	242	81	0	20	1	97	159	69	7	49		
			2	214	214	41	41		2	141	141	25	25			
23,0	23,4	20	1	166	266	120	21	22	1	114	178	84	19	54		
			2	238	238	49	49		2	160	160	38	38			
27,5	27,9	25	1	184	293	134	25	23	1	157	213	131	75	60		
			2	263	263	56	56		2	197	197	91	91			
32,0	32,4	30	1	202	322	147	27	24	1	180	266	140	54	66		
			2	289	289	61	61		2	241	241	78	78			
36,5	36,9	40	1	234	366	173	41	25	1	216	337	160	40	72		
			2	328	328	78	78		2	303	303	74	74			
41,0	41,4	50	1	265	410	198	52	26	1	253	413	179	19	78		
			2	369	369	93	93		2	368	368	65	65			

3.3.2.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

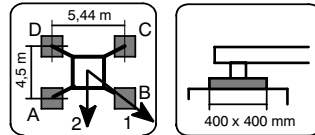


**KRE 250** Corner distance 4,5 m x 5,44 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	20	1	156	240	118	34	19	1	107	168	78	17	44		
			2	216	216	58	58		2	150	150	35	35			
18,5	18,9	20	1	161	253	119	28	20	1	110	174	81	17	49		
			2	227	227	53	53		2	156	156	35	35			
23,0	23,4	20	1	166	267	120	20	22	1	114	181	84	17	55		
			2	238	238	48	48		2	162	162	36	36			
27,5	27,9	25	1	184	294	134	24	23	1	158	219	130	69	60		
			2	263	263	55	55		2	202	202	86	86			
32,0	32,4	30	1	203	323	147	26	24	1	181	272	139	48	66		
			2	289	289	61	61		2	247	247	73	73			
36,5	36,9	40	1	234	367	173	40	25	1	217	344	159	33	72		
			2	329	329	77	77		2	308	308	68	68			
41,0	41,4	50	1	265	412	198	51	27	1	255	421	178	12	78		
			2	370	370	93	93		2	374	374	59	59			

3.3.2.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

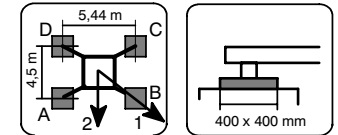


**KRE 250** Corner distance 4,5 m x 5,44 m Jib 32,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	20	1	159	251	116	24	19	1	109	179	77	7	44		
			2	225	225	50	50		2	159	159	27	27			
18,5	18,9	20	1	164	264	118	18	20	1	113	186	80	7	49		
			2	236	236	46	46		2	165	165	28	28			
23,0	23,4	20	1	169	278	119	10	22	1	117	193	82	7	55		
			2	247	247	41	41		2	173	173	85	85			
27,5	27,9	20	1	175	294	120	1	23	1	149	222	116	43	61		
			2	260	260	35	35		2	201	201	63	63			
32,0	32,4	25	1	193	323	133	3	24	1	172	275	124	21	66		
			2	286	286	40	40		2	246	246	50	50			
36,5	36,9	35	1	224	366	158	16	25	1	208	347	144	5	72		
			2	326	326	56	56		2	308	308	45	45			
41,0	41,4	45	1	256	412	184	27	27	1	231	440	148	0	78		
			2	368	368	71	71		2	374	374	35	35			

3.3.2.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive



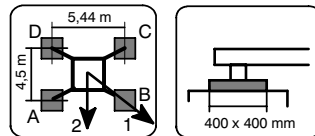
**KRE 250** Corner distance 4,5 m x 5,44 m Jib 35 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	20	1	150	247	105	8	19	1	110	190	74	0	44		
			2	219	219	35	35		2	167	167	20	20			
18,5	18,9	20	1	155	259	107	3	20	1	114	197	77	0	50		
			2	229	229	32	32		2	173	173	21	21			
23,0	23,4	25	1	172	284	121	9	22	1	132	215	93	10	55		
			2	253	253	40	40		2	192	192	33	33			
27,5	27,9	25	1	178	298	122	1	23	1	163	223	136	76	61		
			2	264	264	35	35		2	206	206	93	93			
32,0	32,4	30	1	196	326	135	4	24	1	186	277	145	54	67		
			2	290	290	41	41		2	251	251	79	79			
36,5	36,9	40	1	226	368	161	19	25	1	223	349	165	38	73		
			2	328	328	59	59		2	313	313	74	74			
41,0	41,4	50	1	258	412	186	32	27	1	260	427	184	17	79		
			2	369	369	76	76		2	380	380	64	64			



3.3.2.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

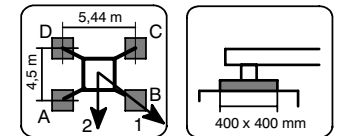


<b>KRE 250</b>	<b>Corner distance 4,5 m x 5,44 m</b>	<b>Jib 37,5 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]			
14,0	14,4	25	1	174	256	137	55	19	1	125	217	85	0	44		
			2	233	233	78	78		2	190	190	23	23			
18,5	18,9	25	1	179	269	138	49	21	1	129	224	87	0	50		
			2	243	243	74	74		2	196	196	24	24			
23,0	23,4	30	1	197	295	152	54	22	1	147	242	104	10	56		
			2	268	268	81	81		2	215	215	36	36			
27,5	27,9	30	1	203	311	153	45	23	1	180	253	146	72	61		
			2	280	280	75	75		2	233	233	93	93			
32,0	32,4	30	1	209	328	154	34	24	1	190	295	142	37	67		
			2	294	294	68	68		2	266	266	67	67			
36,5	36,9	35	1	227	359	167	35	26	1	214	355	149	9	73		
			2	322	322	72	72		2	315	315	48	48			
41,0	41,4	45	1	259	404	192	46	27	1	239	447	155	0	79		
			2	363	363	87	87		2	382	382	38	38			

3.3.2.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

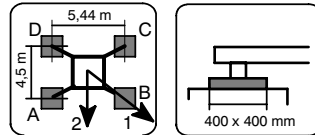


<b>KRE 250</b>	<b>Corner distance 4,5 m x 5,44 m</b>	<b>Jib 40 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]			
14,0	14,4	25	1	175	258	136	53	19	1	123	224	81	0	45		
			2	235	235	76	76		2	193	193	20	20			
18,5	18,9	30	1	192	284	150	59	21	1	144	238	101	7	50		
			2	258	258	84	84		2	212	212	33	33			
23,0	23,4	30	1	198	298	151	51	22	1	148	246	103	6	56		
			2	270	270	79	79		2	218	218	34	34			
27,5	27,9	30	1	203	314	152	42	23	1	181	260	144	65	62		
			2	282	282	73	73		2	238	238	88	88			
32,0	32,4	30	1	209	331	153	31	24	1	192	302	140	29	67		
			2	296	296	66	66		2	271	271	61	61			
36,5	36,9	35	1	228	362	166	32	26	1	216	363	148	1	73		
			2	324	324	70	70		2	321	321	42	42			
41,0	41,4	45	1	259	407	191	43	27	1	232	463	145	0	79		
			2	365	365	85	85		2	389	389	31	31			

3.3.2.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

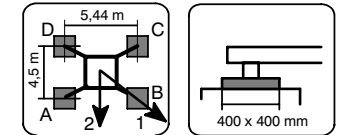


KRE 250 Corner distance 4,5 m x 5,44 m Jib 42,5 m

Table with columns for hook height, center ballast, jib position, crane in/out of service torque moment, corner loads (A, B, C, D), and horizontal force.

3.3.2.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

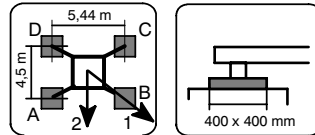


KRE 250 Corner distance 4,5 m x 5,44 m Jib 45 m

Table with columns for hook height, center ballast, jib position, crane in/out of service torque moment, corner loads (A, B, C, D), and horizontal force.

3.3.2.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

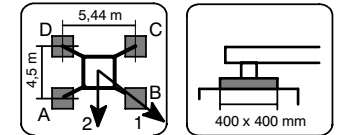


**KRE 250** Corner distance 4,5 m x 5,44 m Jib 47,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]	
				corner loads				horizontal force [kN]			corner loads					horizontal force [kN]
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	35	1	202	270	171	103	19	1	166	281	113	0	45		
			2	251	251	122	122		2	248	248	31	31			
18,5	18,9	35	1	207	283	173	97	21	1	169	289	115	0	51		
			2	262	262	118	118		2	254	254	32	32			
23,0	23,4	35	1	213	297	174	89	22	1	172	297	116	0	56		
			2	274	274	113	113		2	261	261	32	32			
27,5	27,9	35	1	218	313	175	80	23	1	174	308	117	0	62		
			2	286	286	107	107		2	275	275	88	88			
32,0	32,4	35	1	224	330	176	70	24	1	215	346	155	24	68		
			2	300	300	100	100		2	309	309	61	61			
36,5	36,9	40	1	243	361	188	71	26	1	234	413	156	0	74		
			2	327	327	104	104		2	360	360	41	41			
41,0	41,4	50	1	274	406	214	82	27	1	248	517	151	0	80		
			2	369	369	119	119		2	428	428	29	29			

3.3.2.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

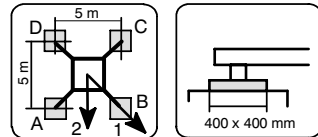


**KRE 250** Corner distance 4,5 m x 5,44 m Jib 50 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]	
				corner loads				horizontal force [kN]			corner loads					horizontal force [kN]
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	35	1	200	259	173	114	20	1	162	290	108	0	46		
			2	243	243	131	131		2	252	252	28	28			
18,5	18,9	35	1	206	272	175	108	21	1	166	298	110	0	51		
			2	254	254	127	127		2	258	258	28	28			
23,0	23,4	35	1	211	287	176	100	22	1	168	307	111	0	57		
			2	265	265	122	122		2	265	265	28	28			
27,5	27,9	35	1	216	302	177	92	23	1	171	317	111	0	63		
			2	278	278	116	116		2	282	282	82	82			
32,0	32,4	40	1	235	331	190	94	24	1	229	368	166	27	69		
			2	304	304	121	121		2	329	329	66	66			
36,5	36,9	40	1	241	349	191	82	26	1	226	433	144	0	75		
			2	319	319	113	113		2	368	368	34	34			
41,0	41,4	55	1	285	407	228	106	27	1	264	539	163	0	81		
			2	372	372	141	141		2	450	450	34	34			

3.3.3.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

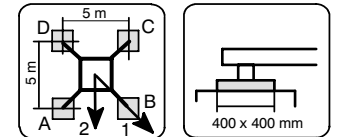


**KRE 250** Corner distance 5,0 m x 5,0 m **Jib 25 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	15	1	98	240	98	0	19	1	79	141	79	18	43
				2	194	194	24			24	2	127	127	
18,5	18,9	15	1	96	256	96	0	20	1	83	147	83	18	48
				2	203	203	21			21	2	128	128	
23,0	23,4	20	1	118	275	118	0	21	1	98	167	98	30	54
				2	225	225	30			30	2	147	147	
27,5	27,9	25	1	139	296	139	0	23	1	143	198	143	89	60
				2	248	248	39			39	2	182	182	
32,0	32,4	30	1	159	319	159	0	24	1	159	250	159	69	66
				2	272	272	46			46	2	223	223	
36,5	36,9	35	1	175	348	175	2	25	1	175	307	175	43	71
				2	297	297	53			53	2	268	268	
41,0	41,4	45	1	203	391	203	16	26	1	203	382	203	24	77
				2	336	336	71			71	2	330	330	
45,5	45,9	55	1	232	435	232	28	28	1	231	464	231	0	84
				2	376	376	87			87	2	396	396	

3.3.3.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

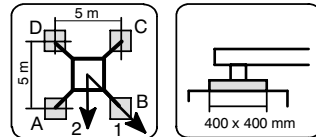


**KRE 250** Corner distance 5,0 m x 5,0 m **Jib 27,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	10	1	83	221	83	0	19	1	64	141	64	0	43
				2	183	183	41			41	2	118	118	
18,5	18,9	10	1	82	237	82	0	20	1	68	148	68	0	49
				2	192	192	37			37	2	123	123	
23,0	23,4	15	1	104	256	104	0	22	1	86	164	86	9	54
				2	216	216	46			46	2	141	141	
27,5	27,9	20	1	147	278	147	15	23	1	132	199	132	64	60
				2	240	240	53			53	2	179	179	
32,0	32,4	25	1	162	307	162	17	24	1	147	251	147	43	66
				2	265	265	60			60	2	221	221	
36,5	36,9	35	1	191	350	191	31	25	1	176	321	176	30	72
				2	303	303	78			78	2	279	279	
41,0	41,4	40	1	206	382	206	31	26	1	190	386	190	0	78
				2	331	331	82			82	2	328	328	
45,5	45,9	50	1	235	428	235	41	28	1	193	494	193	0	84
				2	372	372	98			98	2	394	394	

3.3.3.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

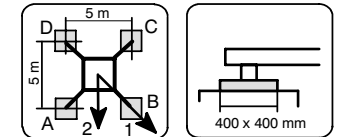


<b>KRE 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 30 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	15	1	124	225	124	23	19	1	80	154	80	6	44
			2	196	196	53	53		2	132	132	28	28	
18,5	18,9	15	1	128	238	128	17	20	1	83	160	83	6	49
			2	206	206	50	50		2	138	138	29	29	
23,0	23,4	15	1	131	252	131	10	22	1	87	167	87	6	55
			2	216	216	45	45		2	145	145	86	86	
27,5	27,9	20	1	147	279	147	14	23	1	132	205	132	58	60
			2	240	240	53	53		2	184	184	80	80	
32,0	32,4	25	1	162	308	162	17	24	1	147	258	147	37	66
			2	265	265	59	59		2	225	225	69	69	
36,5	36,9	30	1	178	338	178	18	25	1	163	316	163	11	72
			2	292	292	65	65		2	271	271	55	55	
41,0	41,4	40	1	206	383	206	30	27	1	183	400	183	0	78
			2	331	331	82	82		2	333	333	50	50	
45,5	45,9	50	1	235	430	235	40	28	1	186	508	186	0	84
			2	372	372	97	97		2	400	400	40	40	

3.3.3.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

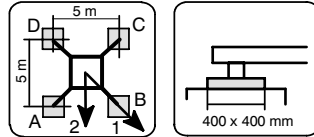


<b>KRE 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 32,5 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	15	1	125	236	125	14	19	1	77	168	77	0	44
			2	204	204	46	46		2	140	140	21	21	
18,5	18,9	15	1	128	249	128	7	20	1	81	174	81	0	49
			2	214	214	43	43		2	146	146	22	22	
23,0	23,4	15	1	131	263	131	0	22	1	83	182	83	0	55
			2	224	224	39	39		2	156	156	77	77	
27,5	27,9	15	1	127	286	127	0	23	1	120	207	120	32	61
			2	236	236	33	33		2	182	182	58	58	
32,0	32,4	20	1	145	313	145	0	24	1	136	260	136	11	66
			2	261	261	40	40		2	224	224	47	47	
36,5	36,9	30	1	179	351	179	7	25	1	161	335	161	0	72
			2	300	300	57	57		2	282	282	45	45	
41,0	41,4	35	1	195	383	195	6	27	1	144	432	144	0	78
			2	328	328	61	61		2	332	332	27	27	
45,5	45,9	50	1	235	443	235	28	28	1	170	541	170	0	85
			2	382	382	89	89		2	412	412	29	29	

3.3.3.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

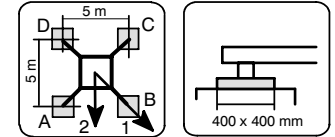


<b>KRE 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 35 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	15	1	113	234	113	0	19	1	69	187	69	0	44
			2	198	198	32	32		2	147	147	15	15	
18,5	18,9	20	1	131	256	131	5	20	1	97	194	97	0	50
			2	219	219	42	42		2	165	165	28	28	
23,0	23,4	20	1	133	270	133	0	22	1	100	201	100	0	55
			2	229	229	38	38		2	171	171	29	29	
27,5	27,9	20	1	129	291	129	0	23	1	102	210	102	0	61
			2	240	240	34	34		2	188	188	86	86	
32,0	32,4	25	1	149	315	149	0	24	1	153	262	153	44	67
			2	265	265	41	41		2	230	230	76	76	
36,5	36,9	30	1	167	342	167	0	25	1	169	321	169	17	73
			2	290	290	48	48		2	276	276	61	61	
41,0	41,4	40	1	197	383	197	11	27	1	194	401	194	0	79
			2	329	329	95	95		2	339	339	55	55	
45,5	45,9	50	1	225	429	225	22	28	1	195	512	195	0	85
			2	370	370	110	110		2	406	406	44	44	

3.3.3.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

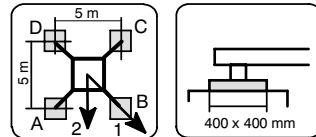


<b>KRE 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 37,5 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	20	1	143	241	143	45	19	1	82	213	82	0	44
			2	213	213	73	73		2	169	169	19	19	
18,5	18,9	20	1	146	254	146	38	21	1	85	219	85	0	50
			2	223	223	70	70		2	175	175	20	20	
23,0	23,4	25	1	162	281	162	43	22	1	113	227	113	0	56
			2	246	246	78	78		2	194	194	33	33	
27,5	27,9	25	1	165	296	165	35	23	1	150	239	150	62	61
			2	258	258	73	73		2	213	213	88	88	
32,0	32,4	25	1	169	312	169	25	24	1	154	280	154	27	67
			2	270	270	67	67		2	243	243	64	64	
36,5	36,9	30	1	184	343	184	25	26	1	169	339	169	0	73
			2	297	297	72	72		2	290	290	49	49	
41,0	41,4	35	1	200	376	200	25	27	1	151	438	151	0	79
			2	324	324	76	76		2	340	340	30	30	
45,5	45,9	50	1	241	435	241	47	28	1	177	550	177	0	85
			2	378	378	103	103		2	421	421	31	31	

3.3.3.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

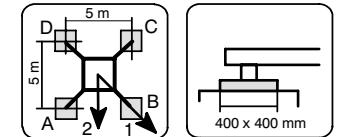


**KRE 250** Corner distance 5,0 m x 5,0 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	20	1	143	244	143	42	19	1	79	219	79	0	45
			2	214	214	72	72		2	172	172	16	16	
18,5	18,9	25	1	159	269	159	48	21	1	107	226	107	0	50
			2	237	237	81	81		2	190	190	30	30	
23,0	23,4	25	1	162	283	162	41	22	1	110	234	110	0	56
			2	248	248	76	76		2	196	196	30	30	
27,5	27,9	25	1	165	298	165	32	23	1	150	246	150	55	62
			2	259	259	71	71		2	218	218	83	83	
32,0	32,4	25	1	168	315	168	22	24	1	153	287	153	20	67
			2	272	272	65	65		2	248	248	59	59	
36,5	36,9	30	1	184	346	184	22	26	1	161	355	161	0	73
			2	299	299	70	70		2	295	295	44	44	
41,0	41,4	35	1	200	379	200	21	27	1	143	454	143	0	79
			2	326	326	74	74		2	346	346	24	24	
45,5	45,9	50	1	241	438	241	43	28	1	168	567	168	0	86
			2	380	380	101	101		2	426	426	25	25	

3.3.3.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

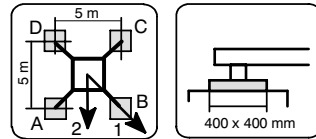


**KRE 250** Corner distance 5,0 m x 5,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	25	1	146	262	146	29	19	1	91	247	91	0	45
			2	228	228	63	63		2	195	195	20	20	
18,5	18,9	30	1	161	287	161	36	21	1	119	254	119	0	50
			2	250	250	73	73		2	213	213	33	33	
23,0	23,4	30	1	165	300	165	30	22	1	122	262	122	0	56
			2	260	260	69	69		2	219	219	33	33	
27,5	27,9	30	1	168	314	168	22	23	1	124	272	124	0	62
			2	271	271	65	65		2	227	227	109	109	
32,0	32,4	30	1	171	330	171	13	24	1	171	294	171	49	68
			2	283	283	59	59		2	258	258	85	85	
36,5	36,9	35	1	187	359	187	15	26	1	187	353	187	21	74
			2	309	309	65	65		2	305	305	70	70	
41,0	41,4	40	1	203	391	203	15	27	1	190	432	190	0	80
			2	336	336	70	70		2	356	356	50	50	
45,5	45,9	50	1	231	436	231	26	28	1	190	546	190	0	86
			2	376	376	86	86		2	424	424	38	38	

3.3.3.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

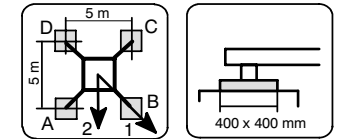


<b>KRE 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 45 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	30	1	173	265	173	82	20	1	105	271	105	0	45		
			2	238	238	109	109		2	216	216	24	24			
18,5	18,9	30	1	177	278	177	76	21	1	108	278	108	0	51		
			2	248	248	105	105		2	222	222	25	25			
23,0	23,4	35	1	192	304	192	81	22	1	136	287	136	0	56		
			2	272	272	113	113		2	241	241	38	38			
27,5	27,9	35	1	196	320	196	72	23	1	137	296	137	0	62		
			2	283	283	108	108		2	251	251	110	110			
32,0	32,4	35	1	199	337	199	62	24	1	184	323	184	45	68		
			2	296	296	102	102		2	282	282	86	86			
36,5	36,9	35	1	202	355	202	50	26	1	187	370	187	4	74		
			2	310	310	94	94		2	317	317	58	58			
41,0	41,4	40	1	218	388	218	48	27	1	173	467	173	0	80		
			2	338	338	98	98		2	368	368	38	38			
45,5	45,9	50	1	246	435	246	58	28	1	172	583	172	0	86		
			2	380	380	113	113		2	437	437	25	25			

3.3.3.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive



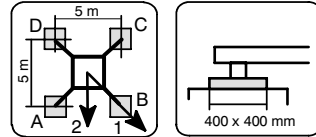
<b>KRE 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 47,5 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,0	14,4	30	1	174	256	174	92	19	1	117	276	117	0	45		
			2	232	232	116	116		2	225	225	30	30			
18,5	18,9	30	1	178	269	178	86	21	1	120	283	120	0	51		
			2	242	242	113	113		2	231	231	30	30			
23,0	23,4	30	1	181	283	181	79	22	1	122	292	122	0	56		
			2	253	253	109	109		2	237	237	31	31			
27,5	27,9	30	1	184	298	184	70	23	1	124	302	124	0	62		
			2	265	265	103	103		2	253	253	85	85			
32,0	32,4	30	1	187	315	187	60	24	1	172	330	172	15	68		
			2	277	277	97	97		2	284	284	61	61			
36,5	36,9	30	1	191	333	191	48	26	1	149	405	149	0	74		
			2	291	291	90	90		2	319	319	32	32			
41,0	41,4	40	1	219	378	219	60	27	1	154	507	154	0	80		
			2	331	331	107	107		2	383	383	24	24			
45,5	45,9	55	1	260	437	260	82	28	1	178	624	178	0	86		
			2	385	385	134	134		2	465	465	24	24			



3.3.3.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

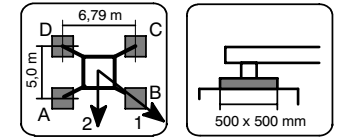


**KRE 250** Corner distance 5,0 m x 5,0 m Jib 50 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,0	14,4	30	1	174	246	174	103	20	1	113	285	113	0	46
			2	225	225	124	124		2	228	228	27	27	
18,5	18,9	30	1	178	258	178	97	21	1	116	292	116	0	51
			2	235	235	121	121		2	234	234	27	27	
23,0	23,4	30	1	181	272	181	90	22	1	118	301	118	0	57
			2	245	245	116	116		2	241	241	27	27	
27,5	27,9	30	1	184	287	184	81	23	1	119	311	119	0	63
			2	257	257	111	111		2	259	259	79	79	
32,0	32,4	30	1	187	304	187	71	24	1	172	340	172	5	69
			2	270	270	105	105		2	291	291	54	54	
36,5	36,9	35	1	203	334	203	72	26	1	164	425	164	0	75
			2	296	296	111	111		2	339	339	38	38	
41,0	41,4	45	1	232	379	232	84	27	1	169	529	169	0	81
			2	336	336	127	127		2	404	404	29	29	
45,5	45,9	60	1	272	438	272	107	28	1	191	647	191	0	87
			2	390	390	155	155		2	486	486	28	28	

3.3.4.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

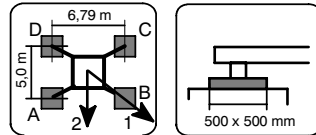


**KRE 260.1** Corner distance 5,0 m x 6,79 m Jib 25 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	10	1	136	226	69	0	22	1	95	135	61	21	53
			2	199	199	16	16		2	124	124	32	32	
23,0	23,4	15	1	159	244	87	2	23	1	112	154	76	34	59
			2	221	221	26	26		2	142	142	45	45	
27,5	27,9	20	1	178	269	100	9	24	1	154	189	124	89	64
			2	244	244	34	34		2	179	179	99	99	
32,0	32,4	25	1	196	295	113	15	26	1	179	236	131	73	70
			2	268	268	42	42		2	220	220	89	89	
36,5	36,9	35	1	228	335	138	32	27	1	218	301	148	66	76
			2	305	305	61	61		2	278	278	88	88	
41,0	41,4	40	1	248	363	150	35	28	1	246	357	152	40	82
			2	331	331	67	67		2	326	326	71	71	
45,5	45,9	50	1	280	405	174	49	29	1	288	432	166	22	88
			2	371	371	84	84		2	392	392	62	62	
50,0	50,4	60	1	313	449	198	62	30	1	331	513	178	0	94
			2	411	411	129	129		2	462	462	49	49	

3.3.4.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

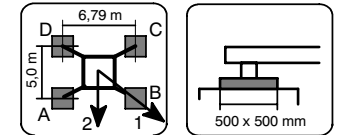


**KRE 260.1** Corner distance 5,0 m x 6,79 m Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	10	1	152	220	94	26	22	1	98	144	59	13	53
			2	201	201	45	45		2	131	131	26	26	
23,0	23,4	10	1	158	232	95	21	23	1	102	151	62	13	59
			2	212	212	41	41		2	138	138	84	84	
27,5	27,9	15	1	177	258	108	26	24	1	145	188	109	66	64
			2	235	235	49	49		2	176	176	78	78	
32,0	32,4	25	1	208	298	133	43	26	1	183	249	128	62	70
			2	273	273	68	68		2	230	230	80	80	
36,5	36,9	30	1	228	326	145	47	27	1	210	301	133	42	76
			2	299	299	74	74		2	276	276	67	67	
41,0	41,4	40	1	260	368	169	61	28	1	250	370	149	29	82
			2	338	338	91	91		2	337	337	62	62	
45,5	45,9	50	1	293	412	193	74	29	1	292	445	163	10	88
			2	379	379	107	107		2	403	403	53	53	
50,0	50,4	60	1	326	457	216	85	31	1	323	540	162	0	95
			2	421	421	121	121		2	474	474	38	38	

3.3.4.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

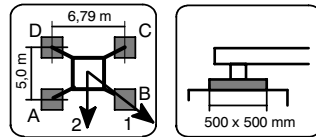


**KRE 260.1** Corner distance 5,0 m x 6,79 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	10	1	152	221	94	26	22	1	99	147	59	11	53
			2	202	202	45	45		2	134	134	24	24	
23,0	23,4	10	1	158	233	95	20	23	1	103	153	61	11	59
			2	212	212	41	41		2	143	143	80	80	
27,5	27,9	15	1	177	259	108	26	24	1	147	194	108	61	65
			2	236	236	48	48		2	181	181	74	74	
32,0	32,4	20	1	196	286	120	30	26	1	172	242	114	44	71
			2	261	261	55	55		2	222	222	64	64	
36,5	36,9	30	1	228	327	145	46	27	1	211	307	131	36	76
			2	299	299	73	73		2	280	280	62	62	
41,0	41,4	35	1	248	356	156	48	28	1	240	364	135	10	83
			2	326	326	78	78		2	330	330	45	45	
45,5	45,9	45	1	281	400	180	60	29	1	274	448	141	0	89
			2	367	367	94	94		2	396	396	35	35	
50,0	50,4	60	1	327	458	216	84	31	1	318	553	154	0	95
			2	422	422	120	120		2	479	479	33	33	

3.3.4.4 Center ballasts and corner loads acc. to EN 13001

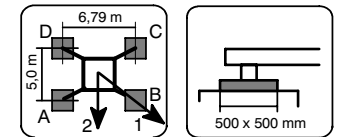
for a stationary tower crane on a cross frame element without climbing drive



KRE 260.1		Corner distance 5,0 m x 6,79 m								Jib 32,5 m				
Hook height ☺ [m]	center ballast ☺ [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
18,5	18,9	10	1	155	230	92	17	22	1	102	157	57	2	54
			2	210	210	38	38		2	142	142	17	17	
23,0	23,4	15	1	174	255	105	24	23	1	119	176	71	15	59
			2	233	233	46	46		2	165	165	84	84	
27,5	27,9	15	1	180	269	105	17	25	1	151	207	104	49	65
			2	244	244	41	41		2	191	191	64	64	
32,0	32,4	20	1	199	296	118	21	26	1	177	255	111	32	71
			2	269	269	48	48		2	233	233	54	54	
36,5	36,9	25	1	219	325	130	24	27	1	204	308	115	11	77
			2	296	296	53	53		2	279	279	40	40	
41,0	41,4	35	1	252	367	154	38	28	1	242	381	128	0	83
			2	335	335	70	70		2	341	341	34	34	
45,5	45,9	45	1	285	412	177	50	30	1	265	476	123	0	89
			2	376	376	86	86		2	408	408	24	24	
50,0	50,4	65	1	343	483	225	86	31	1	334	583	160	0	95
			2	444	444	124	124		2	504	504	34	34	

3.3.4.5 Center ballasts and corner loads acc. to EN 13001

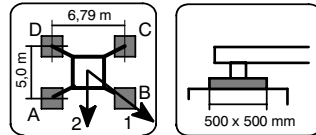
for a stationary tower crane on a cross frame element without climbing drive



KRE 260.1		Corner distance 5,0 m x 6,79 m								Jib 35 m				
Hook height ☺ [m]	center ballast ☺ [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
18,5	18,9	15	1	159	237	93	15	22	1	118	178	67	7	54
			2	215	215	37	37		2	161	161	24	24	
23,0	23,4	15	1	165	249	94	11	23	1	122	185	69	7	60
			2	225	225	34	34		2	167	167	24	24	
27,5	27,9	15	1	171	261	95	5	25	1	152	198	113	67	65
			2	236	236	30	30		2	185	185	80	80	
32,0	32,4	20	1	190	287	107	10	26	1	178	247	120	51	71
			2	260	260	37	37		2	227	227	70	70	
36,5	36,9	30	1	221	327	132	27	27	1	217	312	137	42	77
			2	298	298	56	56		2	286	286	68	68	
41,0	41,4	40	1	254	368	157	42	28	1	258	383	152	28	83
			2	337	337	104	104		2	348	348	62	62	
45,5	45,9	45	1	274	398	168	43	30	1	284	450	150	0	89
			2	365	365	107	107		2	402	402	39	39	
50,0	50,4	60	1	330	455	224	99	31	1	327	558	162	0	96
			2	420	420	133	133		2	487	487	37	37	

3.3.4.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

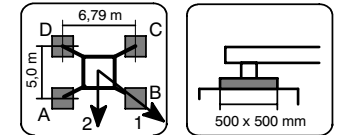


**KRE 260.1** Corner distance 5,0 m x 6,79 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	20	1	183	250	126	59	22	1	134	202	77	9	54
			2	231	231	78	78		2	183	183	28	28	
23,0	23,4	20	1	189	262	127	53	23	1	139	209	79	9	60
			2	242	242	74	74		2	190	190	28	28	
27,5	27,9	20	1	195	276	127	46	25	1	170	226	122	66	66
			2	253	253	69	69		2	210	210	82	82	
32,0	32,4	20	1	202	290	127	38	26	1	183	262	116	36	72
			2	266	266	63	63		2	240	240	58	58	
36,5	36,9	25	1	221	319	139	41	27	1	210	316	120	14	78
			2	292	292	68	68		2	286	286	44	44	
41,0	41,4	35	1	254	362	163	55	28	1	251	387	136	0	84
			2	332	332	85	85		2	349	349	37	37	
45,5	45,9	45	1	287	406	186	67	30	1	273	484	130	0	90
			2	373	373	100	100		2	416	416	27	27	
50,0	50,4	65	1	345	477	234	103	31	1	341	593	165	0	96
			2	441	441	139	139		2	514	514	36	36	

3.3.4.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

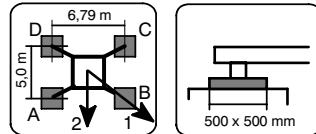


**KRE 260.1** Corner distance 5,0 m x 6,79 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	20	1	183	252	125	57	22	1	135	206	76	6	55
			2	233	233	76	76		2	186	186	25	25	
23,0	23,4	20	1	189	264	126	51	24	1	140	212	78	6	60
			2	243	243	72	72		2	192	192	26	26	
27,5	27,9	20	1	196	278	126	44	25	1	171	232	120	60	66
			2	255	255	67	67		2	215	215	77	77	
32,0	32,4	25	1	215	305	138	48	26	1	197	281	126	42	72
			2	280	280	73	73		2	258	258	66	66	
36,5	36,9	25	1	222	321	138	38	27	1	212	322	118	8	78
			2	294	294	66	66		2	292	292	38	38	
41,0	41,4	30	1	242	352	149	40	28	1	221	401	102	0	84
			2	321	321	70	70		2	342	342	19	19	
45,5	45,9	50	1	300	421	198	77	30	1	293	498	145	0	90
			2	387	387	110	110		2	435	435	33	33	
50,0	50,4	65	1	346	480	233	100	31	1	336	608	155	0	96
			2	443	443	137	137		2	520	520	30	30	

3.3.4.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

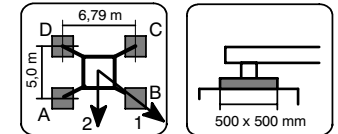


**KRE 260.1** Corner distance 5,0 m x 6,79 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	25	1	190	268	124	47	22	1	152	231	85	7	55
			2	246	246	68	68		2	209	209	28	28	
23,0	23,4	25	1	196	279	125	42	24	1	156	238	88	6	61
			2	256	256	65	65		2	215	215	29	29	
27,5	27,9	25	1	202	292	126	35	25	1	161	245	90	6	66
			2	267	267	60	60		2	225	225	103	103	
32,0	32,4	30	1	221	318	138	41	26	1	212	289	147	70	72
			2	291	291	68	68		2	267	267	92	92	
36,5	36,9	30	1	227	333	138	32	27	1	226	330	139	35	78
			2	304	304	61	61		2	301	301	64	64	
41,0	41,4	35	1	247	363	150	34	28	1	255	389	142	8	84
			2	331	331	66	66		2	352	352	45	45	
45,5	45,9	45	1	280	406	174	48	30	1	285	479	143	0	90
			2	371	371	83	83		2	420	420	33	33	
50,0	50,4	60	1	326	463	209	72	31	1	328	591	152	0	97
			2	425	425	110	110		2	506	506	30	30	

3.3.4.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

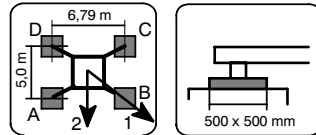


**KRE 260.1** Corner distance 5,0 m x 6,79 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	30	1	211	274	158	96	22	1	168	254	95	9	55
			2	257	257	113	113		2	230	230	33	33	
23,0	23,4	30	1	217	287	159	90	24	1	172	261	97	9	61
			2	267	267	109	109		2	237	237	33	33	
27,5	27,9	30	1	224	300	159	82	25	1	177	269	100	8	67
			2	279	279	104	104		2	248	248	104	104	
32,0	32,4	30	1	230	315	159	74	26	1	216	303	143	56	73
			2	292	292	97	97		2	279	279	80	80	
36,5	36,9	35	1	250	344	171	77	27	1	244	358	147	33	79
			2	318	318	103	103		2	326	326	65	65	
41,0	41,4	35	1	258	362	170	66	29	1	253	412	131	0	85
			2	333	333	94	94		2	365	365	33	33	
45,5	45,9	50	1	303	419	206	90	30	1	299	511	148	0	91
			2	387	387	122	122		2	446	446	33	33	
50,0	50,4	65	1	349	478	241	113	31	1	341	624	156	0	97
			2	442	442	148	148		2	532	532	29	29	

3.3.4.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

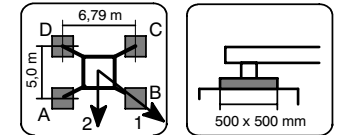


**KRE 260.1** Corner distance 5,0 m x 6,79 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	25	1	197	254	149	92	22	1	163	251	89	1	55
			2	238	238	108	108		2	227	227	26	26	
23,0	23,4	25	1	203	266	150	86	24	1	168	258	91	1	61
			2	249	249	104	104		2	233	233	26	26	
27,5	27,9	25	1	209	280	150	79	25	1	196	271	133	59	67
			2	260	260	99	99		2	250	250	79	79	
32,0	32,4	25	1	216	295	150	71	26	1	210	308	126	28	73
			2	273	273	93	93		2	281	281	55	55	
36,5	36,9	30	1	236	323	162	74	27	1	237	363	131	5	79
			2	299	299	98	98		2	328	328	40	40	
41,0	41,4	35	1	256	353	173	76	29	1	242	446	110	0	85
			2	326	326	103	103		2	379	379	20	20	
45,5	45,9	55	1	314	423	222	113	30	1	314	547	151	0	91
			2	392	392	143	143		2	473	473	32	32	
50,0	50,4	75	1	372	494	270	149	31	1	380	661	184	0	97
			2	460	460	182	182		2	572	572	40	40	

3.3.4.11 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

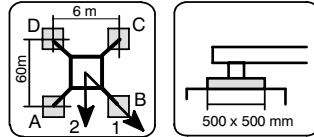


**KRE 260.1** Corner distance 5,0 m x 6,79 m **Jib 50 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	25	1	194	245	152	102	22	1	163	257	86	0	56
			2	231	231	116	116		2	230	230	23	23	
23,0	23,4	25	1	200	257	153	96	24	1	166	265	88	0	61
			2	241	241	112	112		2	236	236	23	23	
27,5	27,9	30	1	219	283	165	101	25	1	211	291	144	64	67
			2	265	265	119	119		2	269	269	86	86	
32,0	32,4	30	1	226	298	165	93	26	1	225	329	137	32	73
			2	278	278	113	113		2	300	300	61	61	
36,5	36,9	30	1	233	314	165	84	27	1	236	375	125	0	79
			2	291	291	106	106		2	335	335	33	33	
41,0	41,4	40	1	265	356	189	98	29	1	261	465	123	0	85
			2	331	331	123	123		2	400	400	25	25	
45,5	45,9	55	1	311	412	225	123	30	1	307	567	138	0	91
			2	384	384	152	152		2	482	482	24	24	
50,0	50,4	75	1	369	483	273	159	31	1	373	683	170	0	98
			2	452	452	191	191		2	581	581	31	31	

3.3.5.1 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

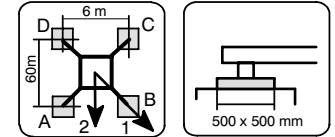


**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	5	1	83	214	83	0	22	1	66	120	66	11	53
			2	171	171	19	19		2	104	104	27	27	
23,0	23,4	5	1	82	230	82	0	23	1	69	126	69	12	59
			2	180	180	17	17		2	113	113	83	83	
27,5	27,9	10	1	105	247	105	0	24	1	114	161	114	67	64
			2	201	201	27	27		2	148	148	81	81	
32,0	32,4	15	1	127	266	127	0	26	1	130	207	130	52	70
			2	224	224	66	66		2	185	185	75	75	
36,5	36,9	20	1	146	289	146	2	27	1	146	257	146	34	76
			2	248	248	74	74		2	224	224	67	67	
41,0	41,4	30	1	174	330	174	18	28	1	174	324	174	23	82
			2	285	285	93	93		2	280	280	68	68	
45,5	45,9	35	1	190	359	190	21	29	1	186	388	186	0	88
			2	311	311	98	98		2	327	327	52	52	
50,0	50,4	45	1	218	402	218	34	30	1	193	487	193	0	94
			2	350	350	115	115		2	390	390	46	46	

3.3.5.2 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

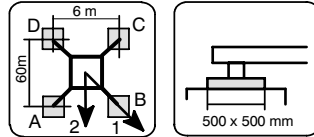


**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	5	1	111	202	111	19	22	1	66	128	66	4	53
			2	176	176	46	46		2	110	110	22	22	
23,0	23,4	5	1	114	214	114	13	23	1	70	135	70	4	59
			2	185	185	43	43		2	121	121	76	76	
27,5	27,9	10	1	130	240	130	20	24	1	115	173	115	57	64
			2	207	207	52	52		2	156	156	74	74	
32,0	32,4	15	1	145	266	145	25	26	1	130	219	130	42	70
			2	231	231	60	60		2	193	193	68	68	
36,5	36,9	20	1	161	294	161	29	27	1	146	269	146	23	76
			2	255	255	68	68		2	233	233	59	59	
41,0	41,4	25	1	177	323	177	31	28	1	162	324	162	0	82
			2	280	280	74	74		2	277	277	47	47	
45,5	45,9	35	1	205	366	205	45	29	1	174	412	174	0	88
			2	319	319	92	92		2	336	336	44	44	
50,0	50,4	40	1	221	398	221	44	31	1	156	512	156	0	95
			2	346	346	96	96		2	387	387	25	25	

3.3.5.3 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

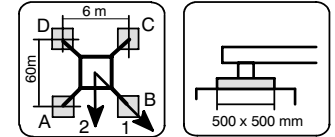


**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 30 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	5	1	111	203	111	18	22	1	66	131	66	2	53
			2	176	176	45	45		2	112	112	21	21	
23,0	23,4	5	1	114	215	114	13	23	1	70	137	70	2	59
			2	185	185	43	43		2	125	125	73	73	
27,5	27,9	10	1	130	240	130	19	24	1	115	178	115	52	65
			2	208	208	52	52		2	159	159	70	70	
32,0	32,4	15	1	146	267	146	24	26	1	131	224	131	37	71
			2	231	231	60	60		2	197	197	64	64	
36,5	36,9	20	1	161	295	161	28	27	1	146	275	146	18	76
			2	256	256	67	67		2	237	237	55	55	
41,0	41,4	25	1	177	324	177	31	28	1	157	335	157	0	83
			2	281	281	74	74		2	281	281	43	43	
45,5	45,9	30	1	193	354	193	32	29	1	144	425	144	0	89
			2	307	307	79	79		2	328	328	28	28	
50,0	50,4	45	1	234	411	234	56	31	1	175	525	175	0	95
			2	359	359	108	108		2	404	404	33	33	

3.3.5.4 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive



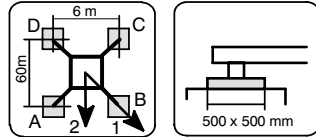
**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	5	1	111	212	111	10	22	1	61	146	61	0	54
			2	183	183	40	40		2	119	119	15	15	
23,0	23,4	5	1	115	224	115	5	23	1	65	152	65	0	59
			2	192	192	37	37		2	134	134	66	66	
27,5	27,9	5	1	117	239	117	0	25	1	103	178	103	28	65
			2	202	202	33	33		2	156	156	50	50	
32,0	32,4	10	1	134	264	134	3	26	1	119	224	119	13	71
			2	226	226	41	41		2	193	193	44	44	
36,5	36,9	15	1	149	292	149	7	27	1	128	282	128	0	77
			2	250	250	48	48		2	234	234	35	35	
41,0	41,4	20	1	165	321	165	9	28	1	120	362	120	0	83
			2	276	276	55	55		2	278	278	22	22	
45,5	45,9	35	1	206	377	206	35	30	1	156	452	156	0	89
			2	327	327	85	85		2	351	351	31	31	
50,0	50,4	45	1	234	423	234	46	31	1	162	554	162	0	95
			2	367	367	101	101		2	415	415	23	23	



3.3.5.5 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

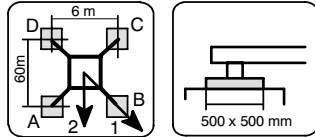


**KRE 260.1** Corner distance 6,0 m x 6,0 m Jib 35 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]						
				corner loads				A [kN]			B [kN]	C [kN]	D [kN]	corner loads				A [kN]	B [kN]	C [kN]	D [kN]	
				A	B	C	D							A	B		C					D
18,5	18,9	10	1	114	219	114	9	22	1	79	162	79	0	54								
			2	188	188	70	70		2	137	137	23	23									
23,0	23,4	10	1	117	230	117	4	23	1	83	168	83	0	60								
			2	197	197	67	67		2	143	143	24	24									
27,5	27,9	10	1	119	243	119	0	25	1	120	182	120	58	65								
			2	207	207	64	64		2	164	164	76	76									
32,0	32,4	10	1	116	263	116	0	26	1	124	217	124	31	71								
			2	218	218	59	59		2	189	189	58	58									
36,5	36,9	20	1	152	294	152	9	27	1	152	280	152	24	77								
			2	255	255	79	79		2	243	243	61	61									
41,0	41,4	25	1	168	322	168	13	28	1	167	337	167	0	83								
			2	280	280	85	85		2	287	287	48	48									
45,5	45,9	30	1	183	352	183	15	30	1	153	427	153	0	89								
			2	306	306	91	91		2	335	335	32	32									
50,0	50,4	40	1	227	396	227	58	31	1	159	530	159	0	96								
			2	346	346	107	107		2	399	399	24	24									

3.3.5.6 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

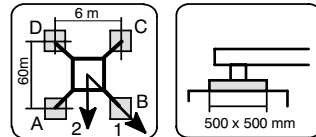


**KRE 260.1** Corner distance 6,0 m x 6,0 m Jib 37,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]						
				corner loads				A [kN]			B [kN]	C [kN]	D [kN]	corner loads				A [kN]	B [kN]	C [kN]	D [kN]	
				A	B	C	D							A	B		C					D
18,5	18,9	10	1	129	220	129	39	22	1	70	183	70	0	54								
			2	193	193	65	65		2	145	145	16	16									
23,0	23,4	15	1	145	244	145	46	23	1	96	191	96	1	60								
			2	215	215	75	75		2	165	165	96	96									
27,5	27,9	15	1	148	257	148	40	25	1	133	209	133	58	66								
			2	225	225	71	71		2	187	187	80	80									
32,0	32,4	15	1	152	272	152	32	26	1	137	244	137	29	72								
			2	236	236	67	67		2	212	212	61	61									
36,5	36,9	15	1	155	287	155	23	27	1	137	286	137	0	78								
			2	248	248	62	62		2	241	241	39	39									
41,0	41,4	20	1	171	316	171	25	28	1	128	367	128	0	84								
			2	274	274	68	68		2	286	286	26	26									
45,5	45,9	30	1	199	360	199	38	30	1	139	459	139	0	90								
			2	313	313	85	85		2	346	346	22	22									
50,0	50,4	45	1	240	417	240	62	31	1	169	563	169	0	96								
			2	365	365	114	114		2	424	424	26	26									

3.3.5.7 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

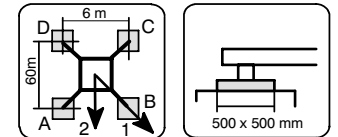


**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	15	1	142	234	142	49	22	1	92	189	92	0	55
			2	207	207	76	76		2	160	160	26	26	
23,0	23,4	15	1	145	246	145	44	24	1	95	196	95	0	60
			2	217	217	73	73		2	168	168	92	92	
27,5	27,9	15	1	148	259	148	37	25	1	133	215	133	52	66
			2	227	227	70	70		2	191	191	76	76	
32,0	32,4	15	1	152	274	152	29	26	1	137	250	137	23	72
			2	238	238	65	65		2	217	217	57	57	
36,5	36,9	15	1	155	289	155	20	27	1	131	298	131	0	78
			2	250	250	60	60		2	245	245	34	34	
41,0	41,4	20	1	171	319	171	23	28	1	121	380	121	0	84
			2	275	275	66	66		2	290	290	21	21	
45,5	45,9	35	1	211	375	211	48	30	1	157	473	157	0	90
			2	327	327	96	96		2	364	364	29	29	
50,0	50,4	50	1	252	433	252	72	31	1	186	577	186	0	96
			2	380	380	125	125		2	441	441	33	33	

3.3.5.8 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

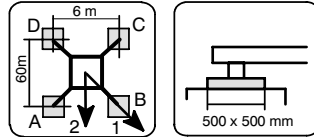


**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	15	1	132	237	132	27	22	1	82	212	82	0	55
			2	206	206	58	58		2	169	169	18	18	
23,0	23,4	20	1	148	261	148	35	24	1	110	219	110	0	61
			2	228	228	68	68		2	187	187	32	32	
27,5	27,9	20	1	151	273	151	29	25	1	112	227	112	0	66
			2	237	237	65	65		2	202	202	100	100	
32,0	32,4	20	1	154	286	154	23	26	1	154	258	154	51	72
			2	248	248	61	61		2	228	228	81	81	
36,5	36,9	20	1	158	301	158	15	27	1	158	298	158	18	78
			2	259	259	57	57		2	257	257	59	59	
41,0	41,4	20	1	161	317	161	5	28	1	141	362	141	0	84
			2	271	271	51	51		2	289	289	33	33	
45,5	45,9	30	1	189	359	189	19	30	1	151	455	151	0	90
			2	309	309	100	100		2	350	350	28	28	
50,0	50,4	45	1	230	416	230	44	31	1	180	560	180	0	97
			2	361	361	129	129		2	428	428	32	32	

3.3.5.9 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

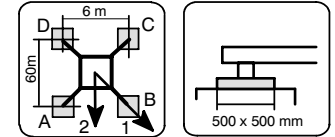


**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
18,5	18,9	20	1	160	245	160	75	22	1	97	232	97	0	55		
			2	220	220	100	100		2	189	189	24	24			
23,0	23,4	20	1	163	257	163	70	24	1	101	239	101	0	61		
			2	229	229	97	97		2	195	195	25	25			
27,5	27,9	20	1	166	270	166	63	25	1	103	247	103	0	67		
			2	240	240	93	93		2	211	211	91	91			
32,0	32,4	25	1	182	297	182	68	26	1	167	284	167	50	73		
			2	263	263	101	101		2	250	250	84	84			
36,5	36,9	25	1	185	312	185	59	27	1	170	324	170	17	79		
			2	275	275	96	96		2	279	279	62	62			
41,0	41,4	25	1	189	329	189	48	29	1	152	391	152	0	85		
			2	288	288	89	89		2	312	312	35	35			
45,5	45,9	35	1	217	373	217	61	30	1	162	485	162	0	91		
			2	327	327	107	107		2	374	374	30	30			
50,0	50,4	50	1	258	431	258	85	31	1	190	592	190	0	97		
			2	380	380	135	135		2	452	452	33	33			

3.3.5.10 Center ballasts and corner loads acc. to EN 13001

for a stationary tower crane on a cross frame element without climbing drive

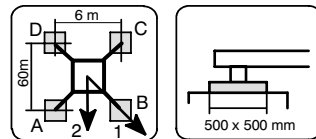


**KRE 260.1** Corner distance 6,0 m x 6,0 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
18,5	18,9	15	1	148	225	148	71	22	1	84	236	84	0	55		
			2	202	202	94	94		2	185	185	17	17			
23,0	23,4	15	1	151	237	151	66	24	1	87	243	87	0	61		
			2	212	212	91	91		2	191	191	18	18			
27,5	27,9	15	1	155	250	155	59	25	1	90	251	90	0	67		
			2	222	222	87	87		2	211	211	69	69			
32,0	32,4	20	1	170	277	170	64	26	1	155	288	155	23	73		
			2	245	245	95	95		2	249	249	62	62			
36,5	36,9	20	1	174	292	174	56	27	1	148	339	148	0	79		
			2	257	257	90	90		2	279	279	39	39			
41,0	41,4	25	1	190	321	190	58	29	1	137	424	137	0	85		
			2	283	283	96	96		2	324	324	25	25			
45,5	45,9	40	1	230	377	230	83	30	1	171	519	171	0	91		
			2	334	334	126	126		2	399	399	32	32			
50,0	50,4	55	1	271	435	271	107	31	1	199	627	199	0	97		
			2	387	387	155	155		2	478	478	34	34			

3.3.5.11 Center ballasts and corner loads acc. to EN 13001

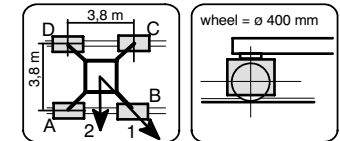
for a stationary tower crane on a cross frame element without climbing drive



KRE 260.1 Corner distance 6,0 m x 6,0 m Jib 50 m														
Hook height ☞ ☛ [m]	center ballast ☛ [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
18,5	18,9	20	1	161	229	161	93	22	1	106	244	106	0	56
			2	209	209	113	113		2	200	200	27	27	
23,0	23,4	20	1	164	241	164	88	24	1	109	251	109	0	61
			2	218	218	110	110		2	206	206	28	28	
27,5	27,9	20	1	167	254	167	81	25	1	152	260	152	44	67
			2	228	228	106	106		2	229	229	76	76	
32,0	32,4	20	1	171	268	171	74	26	1	156	296	156	15	73
			2	239	239	102	102		2	255	255	56	56	
36,5	36,9	20	1	174	283	174	65	27	1	140	356	140	0	79
			2	251	251	97	97		2	285	285	33	33	
41,0	41,4	25	1	190	312	190	67	29	1	129	442	129	0	85
			2	276	276	103	103		2	331	331	18	18	
45,5	45,9	40	1	230	368	230	93	30	1	162	538	162	0	91
			2	327	327	133	133		2	406	406	25	25	
50,0	50,4	55	1	271	425	271	117	31	1	189	648	189	0	98
			2	380	380	162	162		2	485	485	27	27	

3.4.1.1 Center ballasts and corner loads acc. to EN 13001

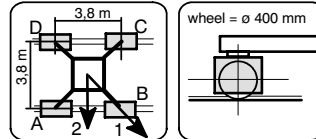
for a travelling tower crane on an undercarriage without climbing drive



UW 138 Corner distance 3,8 m x 3,8 m Jib 25 m														
Hook height ☞ ☛ [m]	center ballast ☛ [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	30	1	130	309	130	0	21	1	142	198	142	87	38
			2	252	252	33	33		2	182	182	103	103	
14,5	14,9	30	1	125	332	125	0	22	1	116	198	116	35	43
			2	263	263	28	28		2	174	174	59	59	
19,0	19,4	30	1	119	358	119	0	24	1	120	205	120	34	49
			2	276	276	22	22		2	180	180	59	59	
23,5	23,9	35	1	136	387	136	0	25	1	135	226	135	45	54
			2	302	302	28	28		2	199	199	71	71	
28,0	28,4	40	1	151	420	151	0	26	1	180	257	180	104	60
			2	329	329	32	32		2	235	235	126	126	
32,5	32,9	50	1	189	457	189	0	28	1	209	334	209	84	66
			2	370	370	47	47		2	297	297	120	120	

3.4.1.2 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

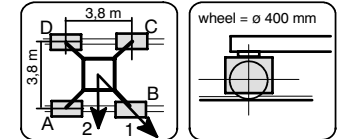


**UW 138** Corner distance 3,8 m x 3,8 m Jib 27,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	30	1	158	287	158	29	21	1	114	204	114	23	38
			2	249	249	67	67		2	177	177	50	50	
14,5	14,9	30	1	139	308	139	0	22	1	117	211	117	23	43
			2	262	262	61	61		2	183	183	50	50	
19,0	19,4	30	1	132	334	132	0	24	1	120	218	120	22	49
			2	276	276	53	53		2	190	190	51	51	
23,5	23,9	30	1	124	363	124	0	25	1	123	227	123	20	54
			2	291	291	45	45		2	196	196	50	50	
28,0	28,4	35	1	140	395	140	0	26	1	169	262	169	75	60
			2	320	320	47	47		2	235	235	102	102	
32,5	32,9	45	1	178	432	178	0	28	1	197	340	197	54	66
			2	363	363	61	61		2	298	298	96	96	

3.4.1.3 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

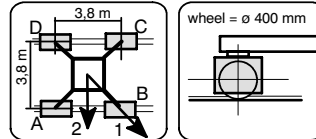


**UW 138** Corner distance 3,8 m x 3,8 m Jib 30 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	30	1	158	288	158	28	21	1	114	208	114	20	38
			2	250	250	66	66		2	180	180	47	47	
14,5	14,9	30	1	161	304	161	18	22	1	117	214	117	19	44
			2	263	263	60	60		2	186	186	48	48	
19,0	19,4	30	1	136	327	136	0	24	1	120	222	120	18	49
			2	277	277	53	53		2	192	192	48	48	
23,5	23,9	30	1	128	356	128	0	25	1	124	230	123	17	55
			2	292	292	44	44		2	199	199	48	48	
28,0	28,4	35	1	143	389	143	0	26	1	169	271	169	67	60
			2	321	321	47	47		2	241	241	97	97	
32,5	32,9	45	1	210	429	210	0	28	1	197	348	197	46	66
			2	364	364	60	60		2	304	304	90	90	

3.4.1.4 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

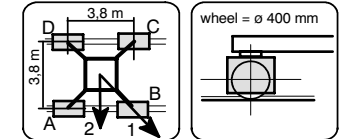


**UW 138** Corner distance 3,8 m x 3,8 m Jib 32,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	30	1	159	302	159	16	21	1	114	222	114	7	39
			2	260	260	57	57		2	190	190	38	38	
14,5	14,9	30	1	162	319	162	5	23	1	118	229	118	6	44
			2	273	273	51	51		2	196	196	39	39	
19,0	19,4	30	1	159	344	159	0	24	1	121	237	121	5	49
			2	287	287	43	43		2	203	203	39	39	
23,5	23,9	30	1	148	378	148	0	25	1	124	245	124	3	55
			2	302	302	35	35		2	210	210	39	39	
28,0	28,4	30	1	136	416	136	0	27	1	157	277	157	36	61
			2	319	319	24	24		2	242	242	71	71	
32,5	32,9	40	1	171	459	171	0	28	1	185	356	185	14	67
			2	362	362	38	38		2	306	306	64	64	

3.4.1.5 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

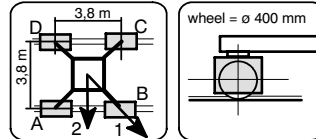


**UW 138** Corner distance 3,8 m x 3,8 m Jib 35 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	25	1	121	302	121	0	21	1	85	239	85	0	39
			2	243	243	29	29		2	187	187	17	17	
14,5	14,9	30	1	141	326	141	0	23	1	113	247	113	0	44
			2	267	267	36	36		2	206	206	31	31	
19,0	19,4	30	1	134	353	134	0	24	1	115	256	115	0	50
			2	280	280	30	30		2	212	212	31	31	
23,5	23,9	30	1	125	383	125	0	25	1	116	266	116	0	55
			2	294	294	23	23		2	219	219	30	30	
28,0	28,4	35	1	140	417	140	0	27	1	140	280	140	1	61
			2	322	322	26	26		2	245	245	103	103	
32,5	32,9	45	1	178	455	177	0	28	1	203	353	202	52	67
			2	364	364	41	41		2	309	309	96	96	

3.4.1.6 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

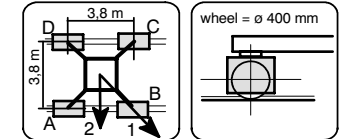


**UW 138** Corner distance 3,8 m x 3,8 m Jib 37,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	35	1	177	303	177	50	21	1	119	273	119	0	39
			2	266	266	87	87		2	225	225	31	31	
14,5	14,9	35	1	180	320	180	40	23	1	122	281	122	0	45
			2	279	279	81	81		2	231	231	32	32	
19,0	19,4	35	1	183	339	183	27	24	1	124	290	124	0	50
			2	294	294	73	73		2	237	237	32	32	
23,5	23,9	35	1	187	360	186	13	26	1	125	301	125	0	56
			2	309	309	64	64		2	244	244	31	31	
28,0	28,4	40	1	202	395	202	10	27	1	151	313	151	0	61
			2	339	339	66	66		2	274	274	101	101	
32,5	32,9	40	1	198	428	198	0	28	1	191	364	191	18	67
			2	357	357	54	54		2	313	313	68	68	

3.4.1.7 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

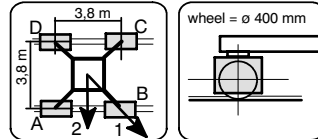


**UW 138** Corner distance 3,8 m x 3,8 m Jib 40 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	35	1	177	306	177	47	22	1	115	282	115	0	39
			2	268	268	85	85		2	228	228	28	28	
14,5	14,9	35	1	180	324	180	36	23	1	118	290	118	0	45
			2	282	282	78	78		2	234	234	29	29	
19,0	19,4	35	1	183	343	183	24	24	1	120	299	120	0	50
			2	296	296	70	70		2	240	240	29	29	
23,5	23,9	40	1	199	376	199	22	26	1	146	310	146	0	56
			2	324	324	74	74		2	260	260	41	41	
28,0	28,4	40	1	202	398	202	6	27	1	146	322	146	0	62
			2	341	341	63	63		2	280	280	94	94	
32,5	32,9	45	1	218	436	218	0	28	1	203	386	203	20	68
			2	372	372	64	64		2	332	332	74	74	

3.4.1.8 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

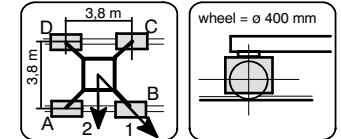


**UW 138** Corner distance 3,8 m x 3,8 m Jib 42,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	40	1	179	330	179	29	22	1	123	319	123	0	40
			2	286	286	73	73		2	254	254	28	28	
14,5	14,9	40	1	183	346	183	19	23	1	126	327	126	0	45
			2	298	298	67	67		2	260	260	29	29	
19,0	19,4	45	1	199	376	198	21	24	1	153	336	152	0	51
			2	324	324	73	73		2	279	279	41	41	
23,5	23,9	45	1	202	395	202	9	26	1	154	347	153	0	56
			2	338	338	65	65		2	286	286	41	41	
28,0	28,4	45	1	200	420	200	0	27	1	154	360	154	0	62
			2	354	354	56	56		2	294	294	39	39	
32,5	32,9	50	1	212	460	212	0	29	1	221	388	221	54	68
			2	384	384	58	58		2	339	339	103	103	

3.4.1.9 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive



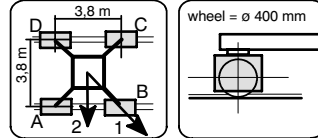
**UW 138** Corner distance 3,8 m x 3,8 m Jib 45 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	45	1	192	327	192	57	22	1	133	350	133	0	40
			2	290	290	124	124		2	278	278	30	30	
14,5	14,9	45	1	195	343	195	48	23	1	136	358	136	0	45
			2	304	304	117	117		2	284	284	30	30	
19,0	19,4	50	1	226	374	226	78	25	1	163	368	162	0	51
			2	331	331	122	122		2	303	303	43	43	
23,5	23,9	50	1	230	395	229	64	26	1	163	379	163	0	57
			2	347	347	112	112		2	311	311	42	42	
28,0	28,4	50	1	233	418	233	48	27	1	164	392	163	0	62
			2	364	364	102	102		2	318	318	41	41	
32,5	32,9	55	1	249	455	248	42	29	1	234	422	233	45	68
			2	395	395	102	102		2	367	367	100	100	



3.4.1.10 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

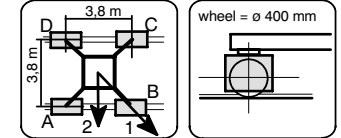


**UW 138** Corner distance 3,8 m x 3,8 m Jib 47,5 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	40	1	196	301	195	90	22	1	119	356	119	0	40
			2	270	270	121	121		2	275	275	22	22	
14,5	14,9	45	1	211	331	211	92	23	1	147	364	147	0	45
			2	296	296	127	127		2	293	293	35	35	
19,0	19,4	45	1	215	350	214	79	25	1	148	374	148	0	51
			2	310	310	119	119		2	300	300	35	35	
23,5	23,9	45	1	218	371	218	65	26	1	149	386	149	0	57
			2	326	326	110	110		2	307	307	34	34	
28,0	28,4	45	1	221	393	221	49	27	1	149	399	149	0	62
			2	343	343	99	99		2	320	320	92	92	
32,5	32,9	50	1	237	431	237	43	29	1	222	436	222	8	68
			2	374	374	100	100		2	373	373	70	70	

3.4.1.11 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

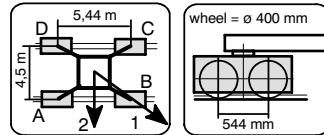


**UW 138** Corner distance 3,8 m x 3,8 m Jib 50 m

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
10,0	10,4	45	1	193	302	193	84	22	1	139	368	139	0	40
			2	273	273	144	144		2	291	291	31	31	
14,5	14,9	45	1	196	318	196	75	23	1	141	376	141	0	46
			2	286	286	137	137		2	298	298	31	31	
19,0	19,4	45	1	215	336	215	93	25	1	143	386	143	0	51
			2	300	300	129	129		2	304	304	31	31	
23,5	23,9	45	1	218	357	218	79	26	1	143	398	143	0	57
			2	316	316	120	120		2	312	312	30	30	
28,0	28,4	50	1	234	392	234	76	27	1	168	412	168	0	63
			2	345	345	122	122		2	341	341	96	96	
32,5	32,9	50	1	237	416	237	58	29	1	218	453	218	0	69
			2	364	364	110	110		2	382	382	62	62	

3.4.2.1 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

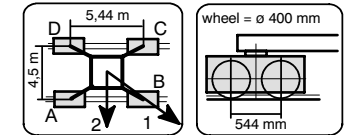


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 25 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	20	1	146	265	97	7	22	1	111	163	88	36	44
			2	228	228	29	29		2	148	148	51	51	
19,0	19,4	20	1	144	285	92	7	24	1	115	169	90	36	49
			2	239	239	25	25		2	154	154	52	52	
23,5	23,9	25	1	166	308	110	7	25	1	132	189	105	48	55
			2	264	264	32	32		2	173	173	64	64	
28,0	28,4	30	1	188	333	127	7	26	1	175	224	152	104	60
			2	289	289	38	38		2	210	210	117	117	
32,5	32,9	35	1	208	361	142	7	28	1	198	277	161	82	66
			2	316	316	43	43		2	254	254	104	104	
37,0	37,4	45	1	244	400	172	15	29	1	234	348	182	68	72
			2	356	356	60	60		2	316	316	100	100	
41,5	41,9	55	1	275	446	197	26	31	1	271	425	201	47	78
			2	398	398	74	74		2	381	381	91	91	

3.4.2.2 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

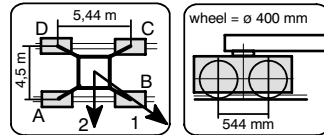


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	15	1	130	246	85	7	23	1	101	160	74	15	44
			2	217	217	47	47		2	144	144	31	31	
19,0	19,4	15	1	128	266	80	7	24	1	105	167	77	15	49
			2	229	229	41	41		2	150	150	32	32	
23,5	23,9	20	1	150	289	98	7	25	1	122	187	92	27	55
			2	255	255	47	47		2	168	168	45	45	
28,0	28,4	25	1	195	316	139	18	27	1	165	225	138	79	61
			2	282	282	52	52		2	208	208	95	95	
32,5	32,9	35	1	226	360	164	30	28	1	201	291	159	69	67
			2	322	322	68	68		2	266	266	95	95	
37,0	37,4	40	1	245	393	177	28	29	1	225	350	167	42	72
			2	351	351	70	70		2	315	315	77	77	
41,5	41,9	50	1	277	441	201	37	31	1	262	427	186	21	78
			2	395	395	83	83		2	381	381	68	68	

3.4.2.3 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

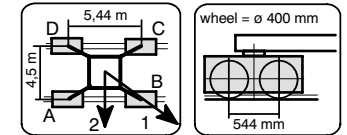


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 30 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	20	1	165	256	124	34	23	1	114	176	86	25	44
			2	230	230	59	59		2	158	158	42	42	
19,0	19,4	20	1	171	270	125	25	24	1	118	182	89	25	50
			2	242	242	53	53		2	164	164	43	43	
23,5	23,9	20	1	177	287	126	16	25	1	122	190	91	24	55
			2	256	256	47	47		2	172	172	100	100	
28,0	28,4	25	1	195	317	139	17	27	1	167	231	137	73	61
			2	282	282	51	51		2	213	213	91	91	
32,5	32,9	30	1	214	349	152	17	28	1	190	285	146	50	67
			2	310	310	55	55		2	258	258	77	77	
37,0	37,4	40	1	245	394	177	27	29	1	226	357	166	35	73
			2	352	352	70	70		2	320	320	72	72	
41,5	41,9	50	1	277	442	201	36	31	1	264	435	185	14	79
			2	396	396	83	83		2	386	386	62	62	

3.4.2.4 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

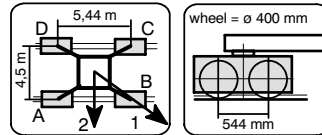


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	20	1	168	267	122	24	23	1	117	187	85	15	44
			2	239	239	51	51		2	167	167	34	34	
19,0	19,4	20	1	173	282	123	15	24	1	121	194	87	14	50
			2	251	251	46	46		2	173	173	35	35	
23,5	23,9	20	1	177	300	122	7	25	1	125	201	90	14	56
			2	265	265	39	39		2	183	183	90	90	
28,0	28,4	20	1	172	330	111	7	27	1	158	234	122	46	61
			2	279	279	31	31		2	212	212	68	68	
32,5	32,9	30	1	215	362	149	7	28	1	193	301	143	36	67
			2	320	320	47	47		2	270	270	66	66	
37,0	37,4	35	1	232	398	159	7	30	1	217	361	151	8	73
			2	350	350	49	49		2	320	320	48	48	
41,5	41,9	45	1	268	443	187	12	31	1	233	460	148	7	79
			2	393	393	61	61		2	387	387	38	38	

3.4.2.5 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

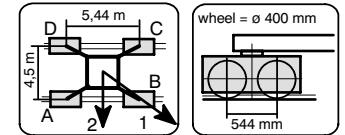


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	20	1	159	262	111	9	23	1	117	199	81	7	45
			2	233	233	38	38		2	175	175	27	27	
19,0	19,4	20	1	158	281	107	7	24	1	121	206	84	7	50
			2	244	244	33	33		2	181	181	28	28	
23,5	23,9	25	1	180	305	125	7	26	1	140	224	101	17	56
			2	269	269	40	40		2	200	200	41	41	
28,0	28,4	25	1	176	331	116	7	27	1	172	235	143	79	62
			2	282	282	33	33		2	218	218	97	97	
32,5	32,9	30	1	196	360	130	7	28	1	195	290	151	57	67
			2	309	309	37	37		2	263	263	83	83	
37,0	37,4	40	1	238	394	165	9	30	1	232	362	171	41	73
			2	350	350	83	83		2	325	325	78	78	
41,5	41,9	50	1	269	440	190	19	31	1	269	441	190	19	79
			2	394	394	96	96		2	392	392	67	67	

3.4.2.6 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

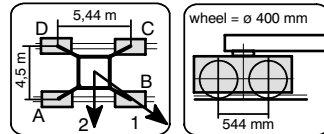


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 37,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	25	1	184	272	143	54	23	1	133	225	92	7	45
			2	247	247	79	79		2	198	198	30	30	
19,0	19,4	25	1	189	287	144	46	24	1	137	232	94	7	51
			2	260	260	73	73		2	204	204	31	31	
23,5	23,9	30	1	207	317	157	48	26	1	155	250	112	17	56
			2	286	286	79	79		2	223	223	44	44	
28,0	28,4	30	1	213	335	158	37	27	1	188	266	153	75	62
			2	300	300	71	71		2	244	244	97	97	
32,5	32,9	30	1	220	354	158	23	28	1	199	308	149	40	68
			2	316	316	61	61		2	277	277	70	70	
37,0	37,4	35	1	239	388	170	21	30	1	223	369	156	11	74
			2	346	346	63	63		2	328	328	52	52	
41,5	41,9	45	1	271	437	195	29	31	1	242	467	156	7	80
			2	390	390	76	76		2	395	395	41	41	

3.4.2.7 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

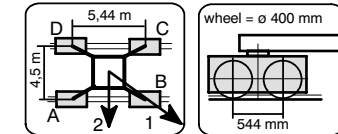


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 40 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				jib position			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,5	14,9	25	1	184	275	142	52	23	1	130	232	88	7	45		
			2	249	249	77	77		2	201	201	28	28			
19,0	19,4	30	1	202	302	156	55	24	1	152	246	109	14	51		
			2	274	274	84	84		2	220	220	41	41			
23,5	23,9	30	1	208	319	157	45	26	1	156	254	111	13	56		
			2	288	288	77	77		2	226	226	41	41			
28,0	28,4	30	1	214	337	157	34	27	1	190	273	151	68	62		
			2	302	302	69	69		2	249	249	92	92			
32,5	32,9	30	1	220	357	157	20	29	1	200	315	147	32	68		
			2	318	318	59	59		2	283	283	65	65			
37,0	37,4	35	1	239	391	170	18	30	1	220	381	150	7	74		
			2	348	348	61	61		2	333	333	46	46			
41,5	41,9	45	1	272	440	194	26	31	1	235	483	146	7	80		
			2	392	392	73	73		2	401	401	34	34			

3.4.2.8 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

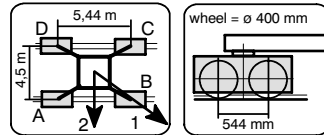


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				jib position			corner loads				horizontal force	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,5	14,9	30	1	190	293	142	39	23	1	145	261	97	7	46		
			2	263	263	68	68		2	225	225	30	30			
19,0	19,4	35	1	207	319	156	44	25	1	168	274	119	13	51		
			2	288	288	76	76		2	244	244	43	43			
23,5	23,9	35	1	213	334	157	36	26	1	172	281	121	12	57		
			2	300	300	70	70		2	250	250	43	43			
28,0	28,4	35	1	219	351	158	25	27	1	176	289	124	10	63		
			2	314	314	63	63		2	258	258	119	119			
32,5	32,9	40	1	237	382	171	26	29	1	228	334	180	74	68		
			2	341	341	67	67		2	304	304	104	104			
37,0	37,4	40	1	244	402	171	13	30	1	240	383	175	32	74		
			2	357	357	57	57		2	342	342	72	72			
41,5	41,9	50	1	276	449	196	22	31	1	278	462	193	9	81		
			2	400	400	71	71		2	410	410	61	61			

3.4.2.9 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

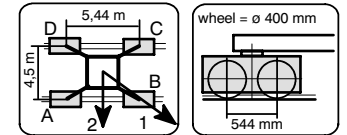


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	35	1	213	296	174	91	23	1	161	285	109	7	46
			2	273	273	115	115		2	248	248	33	33	
19,0	19,4	35	1	218	312	175	82	25	1	164	293	111	7	51
			2	285	285	109	109		2	254	254	34	34	
23,5	23,9	40	1	237	341	189	85	26	1	187	307	132	13	57
			2	311	311	114	114		2	273	273	46	46	
28,0	28,4	40	1	243	359	189	73	27	1	191	315	134	11	63
			2	326	326	106	106		2	283	283	119	119	
32,5	32,9	40	1	249	379	189	59	29	1	232	351	177	58	69
			2	342	342	96	96		2	317	317	91	91	
37,0	37,4	45	1	268	413	202	57	30	1	256	413	184	28	75
			2	373	373	98	98		2	368	368	72	72	
41,5	41,9	45	1	276	437	201	39	32	1	240	497	149	7	81
			2	392	392	85	85		2	412	412	35	35	

3.4.2.10 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

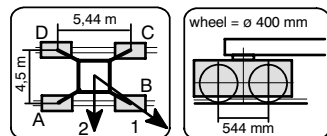


**UW 250** Corner distance 4,5 m x 5,44 m **Jib 47,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	35	1	212	287	177	102	23	1	173	290	120	7	46
			2	266	266	123	123		2	256	256	39	39	
19,0	19,4	35	1	217	303	178	93	25	1	176	297	122	7	51
			2	279	279	117	117		2	263	263	39	39	
23,5	23,9	35	1	223	319	179	83	26	1	179	306	123	7	57
			2	292	292	110	110		2	269	269	39	39	
28,0	28,4	35	1	229	338	179	71	27	1	182	317	124	7	63
			2	307	307	102	102		2	286	286	93	93	
32,5	32,9	35	1	236	357	180	58	29	1	224	359	162	27	69
			2	323	323	92	92		2	321	321	65	65	
37,0	37,4	40	1	255	392	192	55	30	1	237	432	157	7	75
			2	353	353	94	94		2	372	372	45	45	
41,5	41,9	50	1	287	440	216	63	32	1	250	538	151	7	81
			2	397	397	106	106		2	441	441	32	32	

3.4.2.11 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

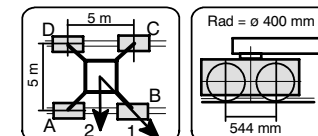


**UW 250**      **Corner distance 4,5 m x 5,44 m**      **Jib 50 m**

Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]		
			corner loads					corner loads						
			A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]			
14,5	14,9	35	1	210	277	179	113	23	1	169	299	115	7	46
			2	258	258	132	132		2	260	260	35	35	
19,0	19,4	35	1	216	292	180	104	25	1	173	307	117	7	52
			2	270	270	125	125		2	266	266	36	36	
23,5	23,9	35	1	221	309	181	94	26	1	176	316	118	7	58
			2	284	284	118	118		2	273	273	35	35	
28,0	28,4	35	1	227	327	182	82	28	1	178	326	118	7	63
			2	299	299	110	110		2	293	293	86	86	
32,5	32,9	40	1	246	359	194	82	29	1	238	381	172	29	69
			2	327	327	113	113		2	341	341	70	70	
37,0	37,4	40	1	253	380	194	67	30	1	229	453	145	7	75
			2	344	344	103	103		2	380	380	37	37	
41,5	41,9	55	1	297	441	231	87	32	1	267	560	163	7	81
			2	401	401	128	128		2	462	462	36	36	

3.4.3.1 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

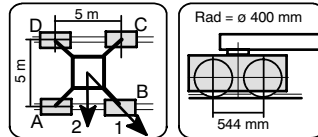


**UW 250**      **Corner distance 5,0 m x 5,0 m**      **Jib 25 m**

Hook height [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	crane out of service (wind region C25)				horizontal force [kN]		
			corner loads					corner loads						
			A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]			
14,5	14,9	15	1	99	260	99	7	22	1	87	149	87	25	44
			2	206	206	27	27		2	133	133	100	100	
19,0	19,4	15	1	96	280	96	7	24	1	90	155	90	25	49
			2	216	216	23	23		2	136	136	44	44	
23,5	23,9	20	1	116	302	116	7	25	1	106	175	106	37	55
			2	240	240	31	31		2	155	155	116	116	
28,0	28,4	25	1	135	327	135	7	26	1	151	210	151	92	60
			2	264	264	38	38		2	193	193	110	110	
32,5	32,9	30	1	153	354	153	7	28	1	167	262	167	72	66
			2	290	290	44	44		2	234	234	99	99	
37,0	37,4	40	1	195	385	195	7	29	1	195	333	195	58	72
			2	329	329	92	92		2	292	292	98	98	
41,5	41,9	45	1	209	418	209	7	31	1	211	396	211	26	78
			2	358	358	94	94		2	342	342	80	80	
46,0	46,4	55	1	239	464	239	15	32	1	233	485	233	7	84
			2	401	401	108	108		2	408	408	71	71	

3.4.3.2 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

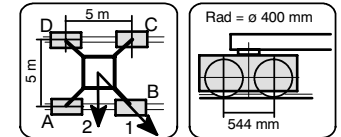


**UW 250** Corner distance 5,0 m x 5,0 m **Jib 27,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				A [kN]			corner loads				A [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				B [kN]	C [kN]	D [kN]			
14,5	14,9	10	1	84	242	84	7	23	1	72	150	72	7	44		
			2	196	196	43	43		2	126	126	25	25			
19,0	19,4	10	1	81	261	81	7	24	1	75	157	75	7	49		
			2	207	207	38	38		2	131	131	26	26			
23,5	23,9	15	1	102	283	102	7	25	1	94	173	94	16	55		
			2	232	232	45	45		2	152	152	95	95			
28,0	28,4	20	1	121	308	121	7	27	1	139	211	139	68	61		
			2	258	258	51	51		2	190	190	89	89			
32,5	32,9	25	1	139	335	139	7	28	1	155	264	155	46	67		
			2	284	284	56	56		2	232	232	78	78			
37,0	37,4	35	1	198	377	198	19	29	1	183	334	183	32	72		
			2	325	325	72	72		2	290	290	76	76			
41,5	41,9	45	1	227	425	227	28	31	1	212	411	212	12	78		
			2	367	367	87	87		2	352	352	71	71			
46,0	46,4	50	1	242	462	242	23	32	1	194	514	194	7	85		
			2	397	397	87	87		2	407	407	48	48			

3.4.3.3 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive



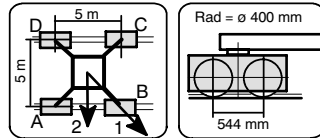
**UW 250** Corner distance 5,0 m x 5,0 m **Jib 30 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				A [kN]			corner loads				A [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				B [kN]	C [kN]	D [kN]			
14,5	14,9	15	1	132	241	132	23	23	1	88	162	88	14	44		
			2	209	209	55	55		2	140	140	35	35			
19,0	19,4	15	1	135	256	135	15	24	1	91	168	91	14	50		
			2	220	220	50	50		2	146	146	36	36			
23,5	23,9	15	1	105	278	105	7	25	1	94	175	94	13	55		
			2	233	233	45	45		2	156	156	91	91			
28,0	28,4	20	1	124	303	124	7	27	1	139	217	139	62	61		
			2	258	258	50	50		2	194	194	84	84			
32,5	32,9	25	1	170	333	170	8	28	1	155	270	155	40	67		
			2	285	285	55	55		2	237	237	74	74			
37,0	37,4	35	1	198	378	198	19	29	1	183	341	183	26	73		
			2	326	326	71	71		2	295	295	72	72			
41,5	41,9	40	1	214	413	214	15	31	1	185	420	185	7	79		
			2	355	355	73	73		2	345	345	53	53			
46,0	46,4	50	1	243	463	243	22	32	1	187	529	187	7	85		
			2	398	398	87	87		2	412	412	43	43			



3.4.3.4 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

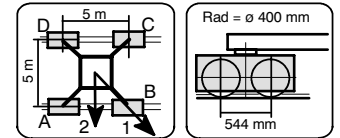


**UW 250** Corner distance 5,0 m x 5,0 m **Jib 32,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
14,5	14,9	15	1	133	252	133	13	23	1	85	177	85	7	44
			2	217	217	48	48		2	148	148	28	28	
19,0	19,4	15	1	134	269	134	7	24	1	88	183	88	7	50
			2	228	228	43	43		2	154	154	29	29	
23,5	23,9	15	1	127	295	127	7	25	1	91	191	91	7	56
			2	241	241	38	38		2	166	166	82	82	
28,0	28,4	15	1	120	323	120	7	27	1	128	220	128	35	61
			2	254	254	31	31		2	193	193	62	62	
32,5	32,9	20	1	135	355	135	7	28	1	143	273	143	13	67
			2	281	281	35	35		2	235	235	51	51	
37,0	37,4	30	1	174	390	174	7	30	1	163	353	163	7	73
			2	322	322	51	51		2	294	294	49	49	
41,5	41,9	40	1	211	430	211	7	31	1	170	451	170	7	79
			2	364	364	66	66		2	357	357	43	43	
46,0	46,4	50	1	243	476	243	10	32	1	171	562	171	7	85
			2	408	408	78	78		2	424	424	32	32	

3.4.3.5 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

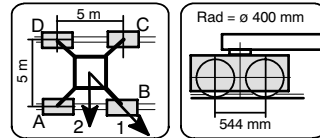


**UW 250** Corner distance 5,0 m x 5,0 m **Jib 35 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]		A [kN]	B [kN]	C [kN]	D [kN]		
14,5	14,9	20	1	135	259	135	11	23	1	101	195	101	7	45
			2	223	223	47	47		2	168	168	35	35	
19,0	19,4	20	1	135	276	135	7	24	1	104	202	104	7	50
			2	233	233	43	43		2	173	173	36	36	
23,5	23,9	20	1	130	299	130	7	26	1	107	210	107	7	56
			2	245	245	39	39		2	180	180	36	36	
28,0	28,4	20	1	124	324	124	7	27	1	145	221	145	68	62
			2	257	257	63	63		2	199	199	91	91	
32,5	32,9	25	1	141	353	141	7	28	1	161	275	161	46	67
			2	284	284	68	68		2	242	242	80	80	
37,0	37,4	35	1	182	385	182	7	30	1	189	347	189	31	73
			2	324	324	84	84		2	301	301	77	77	
41,5	41,9	40	1	196	420	196	7	31	1	195	421	195	7	79
			2	354	354	86	86		2	351	351	58	58	
46,0	46,4	50	1	248	460	248	37	32	1	196	533	196	7	86
			2	398	398	99	99		2	419	419	47	47	

3.4.3.6 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

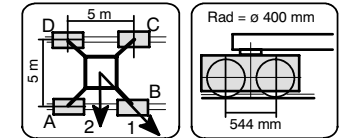


<b>UW 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 37,5 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	20	1	151	258	151	44	23	1	90	221	90	7	45
			2	226	226	75	75		2	178	178	26	26	
19,0	19,4	20	1	154	273	154	35	24	1	93	228	93	7	51
			2	238	238	70	70		2	183	183	27	27	
23,5	23,9	25	1	170	301	170	38	26	1	120	236	120	7	56
			2	263	263	77	77		2	202	202	40	40	
28,0	28,4	25	1	173	319	173	27	27	1	158	251	158	65	62
			2	276	276	70	70		2	224	224	92	92	
32,5	32,9	25	1	176	339	176	14	28	1	161	293	161	30	68
			2	291	291	62	62		2	254	254	68	68	
37,0	37,4	30	1	192	372	192	12	30	1	171	358	171	7	74
			2	319	319	65	65		2	301	301	53	53	
41,5	41,9	40	1	220	420	220	21	31	1	178	458	178	7	80
			2	362	362	79	79		2	365	365	46	46	
46,0	46,4	50	1	249	471	249	27	33	1	178	571	178	7	86
			2	406	406	92	92		2	433	433	34	34	

3.4.3.7 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

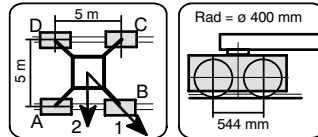


<b>UW 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 40 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	25	1	163	272	163	54	23	1	111	228	111	7	45
			2	240	240	86	86		2	193	193	36	36	
19,0	19,4	25	1	166	288	166	45	24	1	114	235	114	7	51
			2	252	252	81	81		2	198	198	37	37	
23,5	23,9	25	1	170	304	170	35	26	1	117	243	117	7	56
			2	265	265	75	75		2	204	204	38	38	
28,0	28,4	25	1	173	322	173	24	27	1	158	258	158	58	62
			2	278	278	68	68		2	229	229	87	87	
32,5	32,9	25	1	176	341	176	11	29	1	161	300	161	22	68
			2	293	293	60	60		2	259	259	63	63	
37,0	37,4	30	1	192	375	192	9	30	1	164	374	164	7	74
			2	321	321	63	63		2	307	307	47	47	
41,5	41,9	35	1	205	413	205	7	31	1	145	474	145	7	80
			2	351	351	64	64		2	358	358	28	28	
46,0	46,4	55	1	261	486	261	36	33	1	194	588	194	7	86
			2	420	420	102	102		2	451	451	41	41	

3.4.3.8 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

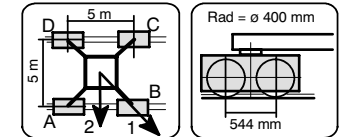


**UW 250** Corner distance 5,0 m x 5,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	25	1	153	278	153	29	23	1	99	256	99	7	46
			2	241	241	66	66		2	203	203	27	27	
19,0	19,4	30	1	169	304	169	35	25	1	127	263	127	7	51
			2	264	264	74	74		2	221	221	40	40	
23,5	23,9	30	1	173	319	173	26	26	1	129	271	129	7	57
			2	276	276	69	69		2	227	227	41	41	
28,0	28,4	30	1	176	335	176	16	27	1	131	281	131	7	63
			2	289	289	63	63		2	238	238	113	113	
32,5	32,9	30	1	176	356	176	7	29	1	179	306	179	52	68
			2	302	302	56	56		2	269	269	89	89	
37,0	37,4	35	1	192	389	192	7	30	1	195	367	195	23	74
			2	330	330	60	60		2	316	316	73	73	
41,5	41,9	40	1	205	426	205	7	31	1	191	452	191	7	81
			2	358	358	63	63		2	368	368	53	53	
46,0	46,4	50	1	239	468	239	9	33	1	191	567	191	7	87
			2	401	401	107	107		2	437	437	41	41	

3.4.3.9 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

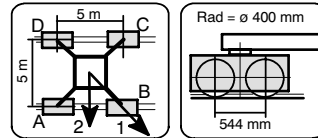


**UW 250** Corner distance 5,0 m x 5,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
14,5	14,9	30	1	181	282	181	81	23	1	113	280	113	7	46
			2	252	252	110	110		2	224	224	32	32	
19,0	19,4	30	1	184	297	184	72	25	1	116	287	116	7	51
			2	264	264	105	105		2	230	230	32	32	
23,5	23,9	35	1	200	326	200	75	26	1	143	296	143	7	57
			2	289	289	111	111		2	249	249	45	45	
28,0	28,4	35	1	204	344	204	63	27	1	144	305	144	7	63
			2	303	303	104	104		2	262	262	115	115	
32,5	32,9	35	1	207	364	207	50	29	1	192	335	192	48	69
			2	318	318	96	96		2	293	293	90	90	
37,0	37,4	40	1	223	398	223	48	30	1	208	396	208	19	75
			2	346	346	99	99		2	341	341	74	74	
41,5	41,9	40	1	226	421	226	31	32	1	174	487	174	7	81
			2	364	364	88	88		2	381	381	41	41	
46,0	46,4	55	1	267	484	267	49	33	1	198	604	198	7	87
			2	421	421	113	113		2	463	463	41	41	

3.4.3.10 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

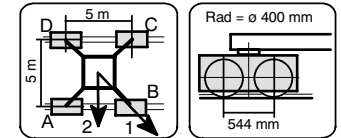


<b>UW 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 47,5 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,5	14,9	30	1	182	273	182	91	23	1	124	284	124	7	46		
			2	246	246	118	118		2	233	233	37	37			
19,0	19,4	30	1	185	288	185	82	25	1	127	292	127	7	51		
			2	258	258	113	113		2	239	239	38	38			
23,5	23,9	30	1	189	305	189	72	26	1	129	301	129	7	57		
			2	271	271	106	106		2	245	245	38	38			
28,0	28,4	30	1	192	323	192	61	27	1	131	311	131	7	63		
			2	284	284	99	99		2	264	264	90	90			
32,5	32,9	30	1	195	342	195	48	29	1	180	343	180	17	69		
			2	299	299	91	91		2	295	295	65	65			
37,0	37,4	30	1	198	363	198	33	30	1	151	424	151	7	75		
			2	315	315	82	82		2	331	331	36	36			
41,5	41,9	40	1	227	412	227	42	32	1	156	527	156	7	81		
			2	357	357	96	96		2	396	396	28	28			
46,0	46,4	60	1	280	487	280	73	33	1	204	645	204	7	87		
			2	426	426	133	133		2	490	490	39	39			

3.4.3.11 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

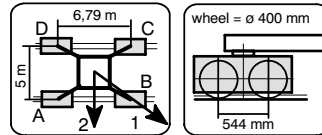


<b>UW 250</b>	<b>Corner distance 5,0 m x 5,0 m</b>	<b>Jib 50 m</b>
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Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads							corner loads					
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
14,5	14,9	30	1	182	262	182	102	23	1	120	293	120	7	46		
			2	239	239	125	125		2	236	236	34	34			
19,0	19,4	30	1	185	278	185	93	25	1	123	301	123	7	52		
			2	251	251	120	120		2	242	242	35	35			
23,5	23,9	30	1	189	294	189	83	26	1	125	310	125	7	58		
			2	263	263	114	114		2	249	249	35	35			
28,0	28,4	30	1	192	312	192	72	28	1	126	320	126	7	63		
			2	277	277	107	107		2	270	270	84	84			
32,5	32,9	30	1	195	331	195	59	29	1	180	353	180	8	69		
			2	291	291	99	99		2	302	302	58	58			
37,0	37,4	35	1	211	365	211	57	30	1	166	444	166	7	75		
			2	320	320	102	102		2	351	351	41	41			
41,5	41,9	45	1	239	413	239	66	32	1	170	549	170	7	81		
			2	362	362	117	117		2	416	416	33	33			
46,0	46,4	65	1	293	488	293	97	33	1	217	669	217	7	88		
			2	431	431	154	154		2	511	511	44	44			

3.4.4.1 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

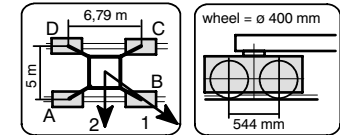


**UW 260.1** Corner distance 5,0 m x 6,79 m Jib 25 m

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	10	1	139	248	67	7	26	1	103	143	69	28	54
			2	212	212	18	18		2	132	132	40	40	
23,5	23,9	15	1	163	267	86	7	27	1	120	162	84	41	59
			2	236	236	26	26		2	152	152	110	110	
28,0	28,4	20	1	187	288	104	7	28	1	163	201	131	93	65
			2	260	260	34	34		2	190	190	103	103	
32,5	32,9	30	1	220	328	130	23	30	1	201	261	150	89	71
			2	298	298	52	52		2	244	244	106	106	
37,0	37,4	35	1	240	356	142	25	31	1	227	313	154	68	77
			2	324	324	88	88		2	290	290	92	92	
41,5	41,9	45	1	273	399	166	39	33	1	268	383	170	55	83
			2	365	365	103	103		2	351	351	87	87	
46,0	46,4	50	1	304	431	196	69	34	1	297	445	172	24	89
			2	395	395	104	104		2	404	404	65	65	
50,5	50,9	65	1	350	491	231	90	35	1	354	539	198	13	95
			2	452	452	129	129		2	488	488	64	64	

3.4.4.2 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

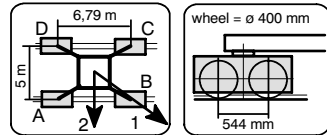


**UW 260.1** Corner distance 5,0 m x 6,79 m Jib 27,5 m

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	10	1	162	237	99	25	26	1	106	152	67	21	54
			2	216	216	46	46		2	140	140	33	33	
23,5	23,9	15	1	181	263	112	30	27	1	123	171	82	33	60
			2	241	241	53	53		2	162	162	102	102	
28,0	28,4	20	1	201	291	124	34	29	1	167	213	128	82	65
			2	266	266	59	59		2	200	200	95	95	
32,5	32,9	25	1	220	320	136	36	30	1	192	261	134	66	71
			2	293	293	64	64		2	242	242	85	85	
37,0	37,4	30	1	241	351	147	37	31	1	219	313	139	44	77
			2	320	320	68	68		2	287	287	71	71	
41,5	41,9	40	1	274	396	171	49	33	1	260	384	155	31	83
			2	362	362	83	83		2	349	349	65	65	
46,0	46,4	50	1	307	442	194	59	34	1	302	459	169	12	89
			2	405	405	96	96		2	415	415	55	55	
50,5	50,9	60	1	342	490	216	67	35	1	326	560	162	7	95
			2	449	449	108	108		2	486	486	41	41	

3.4.4.3 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

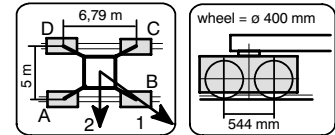


UW 260.1 Corner distance 5,0 m x 6,79 m Jib 30 m

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]
			corner loads						corner loads				
			A	B	C	D		A	B	C	D		
19,0	19,4	10	163	237	99	25	26	107	155	66	18	54	
			217	217	45	45		142	142	32	32		
23,5	23,9	10	169	252	99	17	27	132	162	107	77	60	
			229	229	40	40		153	153	85	85		
28,0	28,4	15	188	279	112	21	29	156	206	114	64	66	
			254	254	46	46		192	192	78	78		
32,5	32,9	25	221	321	136	35	30	194	266	133	60	71	
			293	293	63	63		246	246	80	80		
37,0	37,4	30	241	352	147	36	31	221	319	137	39	77	
			321	321	67	67		292	292	66	66		
41,5	41,9	40	274	397	171	48	33	262	390	153	25	83	
			363	363	82	82		354	354	60	60		
46,0	46,4	50	308	443	194	58	34	302	467	166	7	89	
			406	406	96	96		421	421	50	50		
50,5	50,9	60	342	492	216	66	35	321	574	153	7	96	
			450	450	108	108		492	492	36	36		

3.4.4.4 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

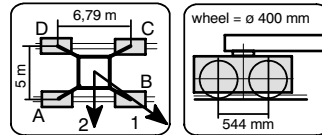


UW 260.1 Corner distance 5,0 m x 6,79 m Jib 32,5 m

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]
			corner loads						corner loads				
			A	B	C	D		A	B	C	D		
19,0	19,4	10	166	247	97	16	26	110	165	64	10	55	
			225	225	38	38		150	150	25	25		
23,5	23,9	15	185	274	110	21	27	149	187	116	78	60	
			249	249	45	45		176	176	88	88		
28,0	28,4	15	192	290	109	12	29	160	219	111	53	66	
			263	263	39	39		203	203	69	69		
32,5	32,9	20	212	319	121	14	30	186	267	117	35	72	
			289	289	43	43		245	245	58	58		
37,0	37,4	25	232	350	132	14	32	213	321	122	13	78	
			317	317	47	47		291	291	43	43		
41,5	41,9	35	265	395	156	26	33	246	400	129	7	84	
			359	359	62	62		354	354	37	37		
46,0	46,4	50	312	454	191	48	34	293	496	148	7	90	
			415	415	88	88		433	433	39	39		
50,5	50,9	65	358	516	226	68	36	337	604	160	7	96	
			472	472	112	112		517	517	37	37		

3.4.4.5 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

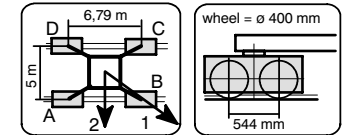


<b>UW 260.1</b>	<b>Corner distance 5,0 m x 6,79 m</b>		<b>Jib 35 m</b>	
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Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position [t]	crane out of service (wind region C25)					horizontal force [kN]
			corner loads				jib position [t]			corner loads				horizontal force [kN]	
			A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	15	1	169	253	99	15	26	1	126	186	75	14	55	
			2	230	230	38	38		2	169	169	31	31		
23,5	23,9	15	1	175	266	99	9	28	1	130	193	77	14	60	
			2	241	241	34	34		2	175	175	31	31		
28,0	28,4	15	1	176	286	93	7	29	1	161	210	120	71	66	
			2	253	253	58	58		2	196	196	85	85		
32,5	32,9	25	1	214	321	124	17	30	1	199	271	138	66	72	
			2	292	292	76	76		2	251	251	86	86		
37,0	37,4	30	1	234	350	135	19	32	1	226	325	143	44	78	
			2	320	320	79	79		2	298	298	72	72		
41,5	41,9	40	1	277	394	179	62	33	1	267	396	159	30	84	
			2	362	362	94	94		2	360	360	65	65		
46,0	46,4	50	1	311	441	201	72	34	1	310	473	172	10	90	
			2	405	405	108	108		2	428	428	55	55		
50,5	50,9	60	1	345	490	224	79	36	1	331	579	161	7	96	
			2	450	450	119	119		2	500	500	39	39		

3.4.4.6 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

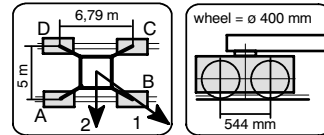


<b>UW 260.1</b>	<b>Corner distance 5,0 m x 6,79 m</b>		<b>Jib 37,5 m</b>	
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Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position [t]	crane out of service (wind region C25)					horizontal force [kN]
			corner loads				jib position [t]			corner loads				horizontal force [kN]	
			A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	20	1	193	267	131	57	26	1	142	211	84	16	55	
			2	247	247	78	78		2	192	192	35	35		
23,5	23,9	20	1	200	282	131	49	28	1	146	217	87	16	61	
			2	259	259	72	72		2	198	198	35	35		
28,0	28,4	20	1	207	297	130	40	29	1	179	238	129	70	66	
			2	272	272	65	65		2	221	221	86	86		
32,5	32,9	25	1	227	327	142	42	30	1	204	287	135	52	72	
			2	299	299	70	70		2	264	264	75	75		
37,0	37,4	25	1	235	345	141	30	32	1	219	329	126	17	78	
			2	315	315	61	61		2	298	298	47	47		
41,5	41,9	35	1	268	391	164	41	33	1	255	406	136	7	84	
			2	357	357	75	75		2	361	361	41	41		
46,0	46,4	50	1	314	450	199	63	35	1	302	503	155	7	91	
			2	413	413	101	101		2	442	442	42	42		
50,5	50,9	65	1	361	512	234	83	36	1	345	614	165	7	97	
			2	470	470	125	125		2	527	527	38	38		

3.4.4.7 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

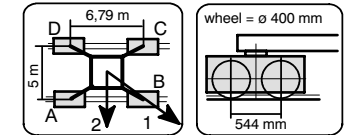


**UW 260.1** Corner distance 5,0 m x 6,79 m **Jib 40 m**

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	20	1	194	269	130	55	26	1	143	214	84	13	55
			2	248	248	76	76		2	194	194	33	33	
23,5	23,9	20	1	200	284	130	47	28	1	147	221	86	13	61
			2	261	261	70	70		2	200	200	33	33	
28,0	28,4	20	1	207	300	130	38	29	1	180	244	127	63	67
			2	274	274	63	63		2	226	226	81	81	
32,5	32,9	25	1	227	329	141	39	31	1	206	293	133	45	73
			2	301	301	68	68		2	269	269	70	70	
37,0	37,4	25	1	235	348	140	27	32	1	221	335	124	10	79
			2	317	317	59	59		2	303	303	42	42	
41,5	41,9	35	1	269	393	163	39	33	1	250	420	127	7	85
			2	359	359	73	73		2	367	367	35	35	
46,0	46,4	50	1	315	453	198	60	35	1	296	518	145	7	91
			2	415	415	99	99		2	447	447	36	36	
50,5	50,9	70	1	374	527	245	93	36	1	364	629	179	7	97
			2	485	485	135	135		2	545	545	44	44	

3.4.4.8 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive



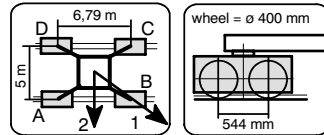
**UW 260.1** Corner distance 5,0 m x 6,79 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	25	1	200	284	130	46	27	1	160	239	93	14	56
			2	261	261	69	69		2	217	217	36	36	
23,5	23,9	25	1	206	297	130	39	28	1	164	246	95	14	61
			2	272	272	64	64		2	223	223	36	36	
28,0	28,4	25	1	213	312	130	31	29	1	169	253	97	13	67
			2	285	285	58	58		2	236	236	107	107	
32,5	32,9	30	1	233	340	142	34	31	1	221	301	153	73	73
			2	311	311	64	64		2	279	279	96	96	
37,0	37,4	30	1	240	358	141	23	32	1	236	343	145	38	79
			2	325	325	56	56		2	313	313	68	68	
41,5	41,9	35	1	261	389	152	23	33	1	265	403	148	10	85
			2	354	354	59	59		2	364	364	48	48	
46,0	46,4	45	1	294	435	175	34	35	1	289	499	143	7	91
			2	396	396	73	73		2	433	433	36	36	
50,5	50,9	65	1	353	508	223	68	36	1	356	612	176	7	97
			2	466	466	140	140		2	531	531	44	44	



3.4.4.9 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

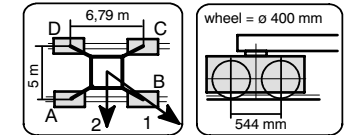


**UW 260.1** Corner distance 5,0 m x 6,79 m Jib 45 m

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	30	1	222	292	163	93	27	1	176	263	103	16	56
			2	273	273	113	113		2	239	239	40	40	
23,5	23,9	30	1	229	307	163	85	28	1	180	270	105	16	62
			2	285	285	107	107		2	245	245	41	41	
28,0	28,4	30	1	236	323	162	75	29	1	212	278	156	90	67
			2	299	299	100	100		2	260	260	109	109	
32,5	32,9	35	1	256	353	174	77	31	1	238	328	162	72	73
			2	326	326	104	104		2	303	303	97	97	
37,0	37,4	35	1	264	371	173	65	32	1	253	370	154	36	79
			2	342	342	95	95		2	338	338	68	68	
41,5	41,9	35	1	272	392	171	51	34	1	257	431	131	7	85
			2	359	359	84	84		2	377	377	36	36	
46,0	46,4	50	1	319	452	206	72	35	1	303	531	147	7	92
			2	415	415	109	109		2	458	458	36	36	
50,5	50,9	70	1	378	527	253	104	36	1	369	645	180	7	98
			2	486	486	145	145		2	557	557	44	44	

3.4.4.10 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

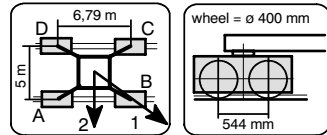


**UW 260.1** Corner distance 5,0 m x 6,79 m Jib 47,5 m

Hook height [m]	center ballast [m]	jib position [t]	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position [t]	crane out of service (wind region C25)				horizontal force [kN]	
			corner loads						corner loads					
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	25	1	208	272	154	90	27	1	171	259	97	9	56
			2	254	254	108	108		2	235	235	33	33	
23,5	23,9	25	1	215	287	154	82	28	1	175	266	99	8	62
			2	267	267	102	102		2	241	241	33	33	
28,0	28,4	25	1	222	303	153	72	29	1	205	283	140	62	67
			2	280	280	95	95		2	261	261	84	84	
32,5	32,9	25	1	229	320	152	62	31	1	219	320	133	31	73
			2	295	295	87	87		2	292	292	59	59	
37,0	37,4	30	1	249	351	164	62	32	1	246	376	137	7	79
			2	323	323	90	90		2	340	340	43	43	
41,5	41,9	40	1	283	396	187	73	34	1	271	466	135	7	85
			2	365	365	105	105		2	404	404	35	35	
46,0	46,4	55	1	329	456	222	95	35	1	317	567	151	7	92
			2	421	421	130	130		2	486	486	35	35	
50,5	50,9	75	1	389	531	269	127	36	1	383	682	183	7	98
			2	491	491	166	166		2	586	586	42	42	

3.4.4.11 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

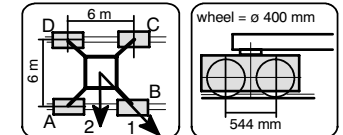


**UW 260.1** Corner distance 5,0 m x 6,79 m **Jib 50 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	25	1	205	263	157	99	27	1	170	266	93	7	57
			2	247	247	115	115		2	238	238	30	30	
23,5	23,9	25	1	212	277	157	91	28	1	174	273	95	7	62
			2	259	259	109	109		2	244	244	30	30	
28,0	28,4	30	1	231	306	169	94	30	1	220	303	150	67	68
			2	285	285	115	115		2	280	280	90	90	
32,5	32,9	30	1	239	323	168	84	31	1	234	341	143	35	74
			2	300	300	107	107		2	312	312	65	65	
37,0	37,4	30	1	247	341	167	72	32	1	240	394	126	7	80
			2	315	315	98	98		2	347	347	36	36	
41,5	41,9	45	1	292	399	202	96	34	1	290	485	148	7	86
			2	370	370	125	125		2	425	425	40	40	
46,0	46,4	60	1	339	459	238	118	35	1	335	588	163	7	92
			2	425	425	151	151		2	507	507	40	40	
50,5	50,9	75	1	398	533	285	150	36	1	401	704	194	7	99
			2	496	496	187	187		2	607	607	46	46	

3.4.5.1 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

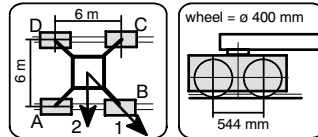


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 25 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	5	1	84	236	84	7	26	1	73	128	73	19	54
			2	184	184	22	22		2	112	112	35	35	
23,5	23,9	10	1	106	254	106	7	27	1	89	147	89	31	59
			2	206	206	31	31		2	136	136	101	101	
28,0	28,4	10	1	103	274	103	7	28	1	122	173	122	71	65
			2	217	217	57	57		2	158	158	86	86	
32,5	32,9	15	1	123	297	123	7	30	1	138	219	138	56	71
			2	241	241	64	64		2	195	195	80	80	
37,0	37,4	25	1	166	323	166	9	31	1	166	282	166	50	77
			2	279	279	82	82		2	248	248	84	84	
41,5	41,9	30	1	182	353	182	11	33	1	182	337	182	26	83
			2	306	306	87	87		2	292	292	72	72	
46,0	46,4	35	1	212	384	212	41	34	1	188	407	188	7	89
			2	334	334	91	91		2	339	339	56	56	
50,5	50,9	45	1	241	431	241	51	35	1	194	507	194	7	95
			2	375	375	106	106		2	402	402	49	49	

3.4.5.2 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

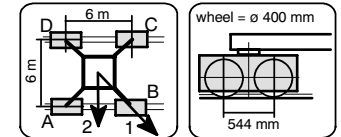


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 27,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	5	1	93	220	93	7	26	1	74	137	74	11	54
			2	189	189	47	47		2	118	118	30	30	
23,5	23,9	5	1	90	238	90	7	27	1	77	143	77	12	60
			2	200	200	43	43		2	132	132	82	82	
28,0	28,4	10	1	137	260	137	15	29	1	122	184	122	60	65
			2	224	224	51	51		2	166	166	79	79	
32,5	32,9	15	1	153	288	153	18	30	1	138	231	138	46	71
			2	249	249	58	58		2	204	204	73	73	
37,0	37,4	20	1	169	318	169	20	31	1	154	282	154	26	77
			2	274	274	64	64		2	244	244	64	64	
41,5	41,9	25	1	185	349	185	20	33	1	165	342	165	7	83
			2	301	301	68	68		2	288	288	51	51	
46,0	46,4	35	1	213	395	213	31	34	1	177	432	177	7	89
			2	341	341	84	84		2	348	348	48	48	
50,5	50,9	45	1	241	442	241	40	35	1	183	532	183	7	95
			2	383	383	99	99		2	412	412	41	41	

3.4.5.3 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

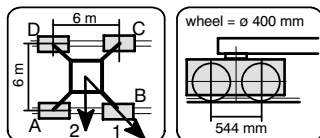


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 30 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	5	1	118	219	118	18	26	1	74	139	74	9	54
			2	190	190	47	47		2	120	120	28	28	
23,5	23,9	5	1	93	234	93	7	27	1	107	147	107	67	60
			2	200	200	43	43		2	135	135	78	78	
28,0	28,4	10	1	138	260	138	15	29	1	123	190	123	56	66
			2	224	224	51	51		2	170	170	75	75	
32,5	32,9	15	1	153	289	153	18	30	1	138	236	138	40	71
			2	249	249	57	57		2	208	208	69	69	
37,0	37,4	20	1	169	319	169	19	31	1	154	287	154	21	77
			2	275	275	63	63		2	248	248	60	60	
41,5	41,9	25	1	185	350	185	20	33	1	159	354	159	7	83
			2	302	302	68	68		2	292	292	47	47	
46,0	46,4	35	1	213	396	213	31	34	1	171	444	171	7	89
			2	342	342	84	84		2	352	352	44	44	
50,5	50,9	45	1	241	443	241	40	35	1	177	545	177	7	96
			2	384	384	99	99		2	417	417	36	36	

3.4.5.4 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

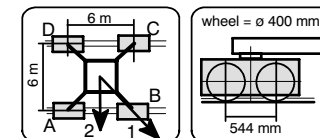


UW 260.1 Corner distance 6,0 m x 6,0 m Jib 32,5 m

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	5	1	119	229	119	9	26	1	69	155	69	7	55
				2	197	197	42			42	2	127	127	
23,5	23,9	5	1	117	248	117	7	27	1	72	161	72	7	60
				2	207	207	37			37	2	144	144	
28,0	28,4	10	1	137	271	137	7	29	1	123	202	123	44	66
				2	231	231	45			45	2	179	179	
32,5	32,9	10	1	131	297	131	7	30	1	126	237	126	16	72
				2	244	244	39			39	2	204	204	
37,0	37,4	15	1	148	326	148	7	32	1	131	299	131	7	78
				2	270	270	45			45	2	245	245	
41,5	41,9	25	1	185	361	185	10	33	1	147	380	147	7	84
				2	309	309	62			62	2	302	302	
46,0	46,4	35	1	214	407	214	21	34	1	158	471	158	7	90
				2	350	350	77			77	2	363	363	
50,5	50,9	50	1	254	467	254	42	36	1	188	574	188	7	96
				2	405	405	104			104	2	440	440	

3.4.5.5 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

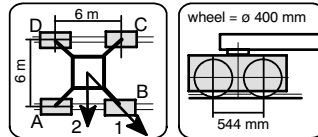


UW 260.1 Corner distance 6,0 m x 6,0 m Jib 35 m

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	10	1	122	234	122	9	26	1	87	170	87	7	55
				2	202	202	71			71	2	145	145	
23,5	23,9	10	1	120	251	120	7	28	1	90	177	90	7	60
				2	213	213	67			67	2	152	152	
28,0	28,4	10	1	116	272	116	7	29	1	128	194	128	62	66
				2	224	224	62			62	2	175	175	
32,5	32,9	15	1	136	296	136	7	30	1	144	241	144	47	72
				2	249	249	69			69	2	213	213	
37,0	37,4	20	1	155	321	155	7	32	1	160	293	160	26	78
				2	275	275	74			74	2	254	254	
41,5	41,9	25	1	172	350	172	7	33	1	170	355	170	7	84
				2	302	302	79			79	2	298	298	
46,0	46,4	35	1	219	394	219	44	34	1	180	446	180	7	90
				2	342	342	95			95	2	359	359	
50,5	50,9	45	1	247	442	247	52	36	1	185	550	185	7	96
				2	385	385	109			109	2	424	424	

3.4.5.6 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

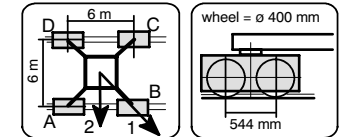


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 37,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☞	☝			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	15	1	150	249	150	50	26	1	101	193	101	8	55
			2	220	220	79	79		2	166	166	35	35	
23,5	23,9	15	1	153	263	153	43	28	1	104	200	104	8	61
			2	231	231	75	75		2	175	175	101	101	
28,0	28,4	15	1	156	278	156	34	29	1	141	221	141	61	66
			2	242	242	70	70		2	198	198	85	85	
32,5	32,9	15	1	159	295	159	24	30	1	144	256	144	33	72
			2	255	255	64	64		2	223	223	66	66	
37,0	37,4	15	1	163	312	163	13	32	1	140	303	140	7	78
			2	269	269	57	57		2	252	252	43	43	
41,5	41,9	20	1	178	344	178	13	33	1	131	385	131	7	84
			2	296	296	61	61		2	297	297	30	30	
46,0	46,4	35	1	219	403	219	36	35	1	166	478	166	7	91
			2	349	349	89	89		2	371	371	38	38	
50,5	50,9	50	1	260	464	260	56	36	1	195	583	195	7	97
			2	404	404	116	116		2	449	449	42	42	

3.4.5.7 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

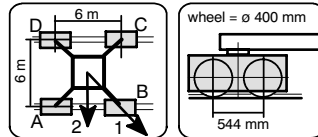


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 40 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☞	☝			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	15	1	150	251	150	48	26	1	99	198	99	7	55
			2	221	221	78	78		2	168	168	34	34	
23,5	23,9	15	1	153	265	153	40	28	1	103	204	103	7	61
			2	232	232	73	73		2	179	179	97	97	
28,0	28,4	15	1	156	280	156	32	29	1	141	227	141	56	67
			2	244	244	68	68		2	202	202	81	81	
32,5	32,9	15	1	159	297	159	22	31	1	144	262	144	27	73
			2	257	257	62	62		2	227	227	61	61	
37,0	37,4	15	1	163	315	163	11	32	1	134	316	134	7	79
			2	270	270	55	55		2	257	257	39	39	
41,5	41,9	20	1	178	347	178	10	33	1	124	398	124	7	85
			2	297	297	59	59		2	302	302	25	25	
46,0	46,4	35	1	219	405	219	33	35	1	159	492	159	7	91
			2	351	351	87	87		2	376	376	33	33	
50,5	50,9	50	1	260	466	260	54	36	1	187	598	187	7	97
			2	406	406	114	114		2	454	454	36	36	

3.4.5.8 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

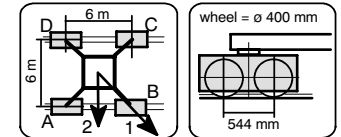


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 42,5 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	15	1	140	253	140	27	27	1	89	221	89	7	56		
			2	220	220	60	60		2	177	177	26	26			
23,5	23,9	20	1	156	278	156	33	28	1	117	228	117	7	61		
			2	242	242	69	69		2	195	195	39	39			
28,0	28,4	20	1	159	292	159	26	29	1	120	236	120	7	67		
			2	253	253	65	65		2	212	212	105	105			
32,5	32,9	20	1	162	308	162	17	31	1	162	270	162	54	73		
			2	265	265	59	59		2	239	239	86	86			
37,0	37,4	20	1	165	325	165	7	32	1	165	310	165	21	79		
			2	278	278	83	83		2	268	268	63	63			
41,5	41,9	25	1	181	355	181	8	33	1	169	380	169	7	85		
			2	305	305	87	87		2	313	313	49	49			
46,0	46,4	30	1	197	388	197	7	35	1	153	474	153	7	91		
			2	334	334	90	90		2	362	362	32	32			
50,5	50,9	45	1	238	446	238	29	36	1	181	581	181	7	97		
			2	389	389	117	117		2	441	441	35	35			

3.4.5.9 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

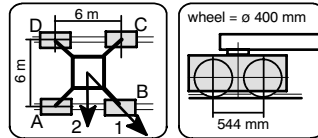


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 45 m**

Hook height [m]	center ballast [m]	center ballast [t]	jib position	crane in service torque moment: 125 kNm					horizontal force [kN]	jib position	crane out of service (wind region C25)					horizontal force [kN]
				corner loads				horizontal force [kN]			corner loads				horizontal force [kN]	
				A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
19,0	19,4	20	1	168	262	168	73	27	1	105	241	105	7	56		
			2	234	234	101	101		2	197	197	32	32			
23,5	23,9	20	1	171	276	171	66	28	1	108	248	108	7	62		
			2	245	245	96	96		2	203	203	33	33			
28,0	28,4	20	1	174	291	174	57	29	1	110	256	110	7	67		
			2	257	257	91	91		2	222	222	96	96			
32,5	32,9	25	1	190	321	190	59	31	1	175	296	175	53	73		
			2	282	282	97	97		2	261	261	89	89			
37,0	37,4	25	1	193	339	193	48	32	1	178	337	178	19	79		
			2	296	296	90	90		2	290	290	66	66			
41,5	41,9	25	1	196	358	196	35	34	1	155	409	155	7	85		
			2	311	311	82	82		2	324	324	39	39			
46,0	46,4	35	1	225	405	225	45	35	1	163	505	163	7	92		
			2	352	352	97	97		2	386	386	34	34			
50,5	50,9	50	1	265	466	265	65	36	1	191	613	191	7	98		
			2	407	407	124	124		2	464	464	37	37			

3.4.5.10 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive

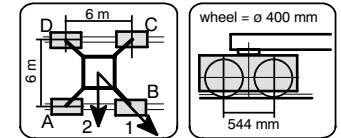


**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 47,5 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	15	1	156	242	156	69	27	1	92	245	92	7	56
			2	217	217	95	95		2	193	193	25	25	
23,5	23,9	15	1	159	256	159	62	28	1	95	252	95	7	62
			2	228	228	90	90		2	199	199	26	26	
28,0	28,4	20	1	175	284	175	66	29	1	160	264	160	55	67
			2	252	252	98	98		2	234	234	86	86	
32,5	32,9	20	1	178	301	178	56	31	1	163	301	163	26	73
			2	265	265	92	92		2	260	260	66	66	
37,0	37,4	20	1	181	319	181	44	32	1	151	357	151	7	79
			2	278	278	84	84		2	290	290	43	43	
41,5	41,9	25	1	197	351	197	44	34	1	140	442	140	7	85
			2	306	306	89	89		2	336	336	29	29	
46,0	46,4	40	1	238	409	238	67	35	1	173	539	173	7	92
			2	359	359	117	117		2	411	411	35	35	
50,5	50,9	55	1	279	470	279	87	36	1	200	648	200	7	98
			2	414	414	143	143		2	490	490	37	37	

3.4.5.11 Center ballasts and corner loads acc. to EN 13001

for a travelling tower crane on an undercarriage without climbing drive



**UW 260.1** Corner distance 6,0 m x 6,0 m **Jib 50 m**

Hook height		center ballast [t]	jib position	crane in service torque moment: 125 kNm				horizontal force [kN]	jib position	crane out of service (wind region C25)				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
☺	☹			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
19,0	19,4	20	1	169	246	169	91	27	1	113	253	113	7	57
			2	223	223	114	114		2	208	208	35	35	
23,5	23,9	20	1	172	260	172	83	28	1	116	260	116	7	62
			2	234	234	109	109		2	215	215	98	98	
28,0	28,4	20	1	175	275	175	75	30	1	160	272	160	48	68
			2	246	246	104	104		2	239	239	81	81	
32,5	32,9	20	1	178	292	178	65	31	1	163	309	163	18	74
			2	259	259	98	98		2	266	266	61	61	
37,0	37,4	20	1	182	310	182	54	32	1	143	374	143	7	80
			2	272	272	91	91		2	296	296	37	37	
41,5	41,9	30	1	210	354	210	66	34	1	156	460	156	7	86
			2	312	312	108	108		2	355	355	35	35	
46,0	46,4	40	1	238	400	238	76	35	1	164	558	164	7	92
			2	353	353	124	124		2	418	418	28	28	
50,5	50,9	60	1	291	473	291	110	36	1	215	668	215	7	99
			2	420	420	163	163		2	510	510	43	43	