

**WOLFF 6017.10** 

WOLFF 6017.10	series	Crane data
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### 2.2.1.1 Load capacity table

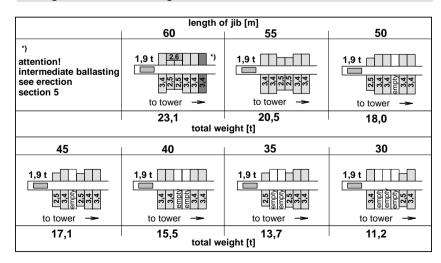
radi	us [n	ո]		25	30	35	40	45	50	55	60	
	60	2,5 - 14,1	9,0 t	4,6	3,7	3,0	2,5	2,1	1,8	1,5	1,3	_
_	55	2,5 - 13,8		5,0	4,0	3,3	2,7	2,3	2,0	1,7		χĒ
[ <u>m</u> ]	50	2,5 - 15,0		5,6	4,5	3,7	3,1	2,6	2,3			capacity
f jib	45	2,5 - 15,4	3	5,7	4,6	3,8	3,2	2,7				apa
h of	40	2,5 - 16,2	10,0 t	6,1	4,9	4,0	3,4					
length	35	2,5 - 16,4		6,2	5,0	4,1						load
<u>e</u>	30	2,5 - 16,5		6,2	5,0							<b>1</b> –

radi	us [n	1]		25	30	35	40	45	50	55	60	
	60	2,5 - 20,6		4,8	3,8	3,1	2,6	2,2	1,9	1,6	1,4	_
_	55	2,5 - 22,0		5,2	4,1	3,4	2,9	2,4	2,1	1,8		y [E]
<u>E</u>	50	2,5 - 23,9		5,7	4,6	3,8	3,2	2,7	2,4			capacity
đ jib	45	2,5 - 24,4	્ય	5,8	4,7	3,9	3,3	2,8				ара
h of	40	2,5 - 25,7	6,0 t	6,0	5,0	4,1	3,5					
length	35	2,5 - 26,0		6,0	5,1	4,2						load
<u>e</u>	30	2,5 - 26,1		6,0	5,1							

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

#### Arrangement of counterweight

Hw 637 FU



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#### 2.2.1.2 Load capacity table

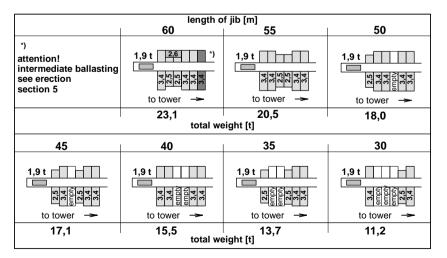
radi	us [n	n]		25	30	35	40	45	50	55	60	
	60	2,5 - 15,9	9,0 t	5,3	4,3	3,5	2,9	2,5	2,1	1,8	1,6	_
_	55	2,5 - 15,8		5,9	4,7	3,9	3,3	2,8	2,4	2,1		Σ
of jib [m]	50	2,5 - 16,8		6,4	5,1	4,2	3,6	3,1	2,7			capacity
fjik	45	2,5 - 16,9	3	6,4	5,2	4,3	3,6	3,1				ара
ф	40	2,5 - 17,6	10,0 t	6,7	5,4	4,5	3,8					
length	35	2,5 - 17,6		6,7	5,4	4,5						load
<u>e</u>	30	2,5 - 17,6		6,7	5,4							] =

radi	us [n	ո]		25	30	35	40	45	50	55	60	
	60	2,5 - 23,1		5,5	4,4	3,6	3,1	2,6	2,2	1,9	1,7	
_	55	2,5 - 25,1		6,0	4,9	4,0	3,4	2,9	2,5	2,2		γŒ
<u>E</u>	50	2,5 - 26,8		6,0	5,3	4,4	3,7	3,2	2,8			capacity
ē.	45	2,5 - 27,0	્ય	6,0	5,3	4,4	3,7	3,2				apa
h of	40	2,5 - 28,0	6,0 t	6,0	5,5	4,6	3,9					
length	35	2,5 - 28,0		6,0	5,5	4,6						load
<u>e</u>	30	2,5 - 28,0		6,0	5,5							

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

#### Arrangement of counterweight

Hw 637 FU



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## 2.2.2.1 Operational speeds 400 V, 50 Hz, 40% ED

drive [type]	operational speeds load capacity	max. lift [m]	output [kW]	total output [kVA]
Hw 637 FU	2.0 0.7 0 20 29 40 60 80 100 120 140 operational speeds	_[m/	<b>&gt;</b>	
ر ۲ ( ا	(refered to the 2 layer on hoist drum	95	37	58,0
	10,0 8,0 6,0 4,0 1,4 0 0 18 40 60 70 80 100 120 140 operational speeds		>	total output for a simmultaneity factor 0,8
Kw	traversing		7,5	
<b> </b>	E 10,0   stepless acceleration   3,0   0   10   20   30   40   50   60   70	80 90 1 [m/n	00 110 120 nin]	
Dw	slewing 0,8 min <sup>-1</sup>		2 x 5,0	
062 4 022297	0 operational speeds	0,8 _[m	in-1] >	

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2.2.3.1 Load capacity [kg] 2 fall operation DIN 15018/H1 - B3

radius			len	gth of jib	[m]		
[m]	30	35	40	45	50	55	60
20,0	6000	6000	6000	6000	6000	6000	6000
21,0	6000	6000	6000	6000	6000	6000	5860
22,0	6000	6000	6000	6000	6000	6000	5550
23,0	6000	6000	6000	6000	6000	5700	5260
24,0	6000	6000	6000	6000	5980	5420	5000
25,0	6000	6000	6000	5800	5700	5200	4800
26,0	6000	6000	5920	5580	5440	4920	4540
27,0	5780	5740	5670	5330	5200	4700	4330
28,0	5540	5500	5430	5110	4980	4500	4140
29,0	5310	5280	5210	4900	4780	4310	3970
30,0	5100	5100	5000	4700	4600	4100	3800
31,0		4870	4810	4520	4400	3970	3650
32,0		4690	4630	4340	4230	3810	3500
33,0		4520	4460	4180	4080	3670	3360
34,0		4350	4290	4030	3930	3530	3240
35,0		4200	4100	3900	3800	3400	3100
36,0			4000	3750	3650	3278	3000
37,0			3870	3620	3530	3160	2890
38,0			3740	3500	3410	3050	2790
39,0			3620	3390	3300	2950	2690
40,0			3500	3300	3200	2900	2600
41,0				3170	3090	2760	2510
42,0				3070	2990	2670	2430
43,0				2980	2900	2580	2350
44,0				2890	2810	2500	2270
45,0				2800	2700	2400	2200
46,0					2640	2350	2130
47,0					2560	2280	2060
48,0					2490	2210	2000
49,0					2420	2140	1940
50,0					2400	2100	1900
51,0						2020	1820
52,0	the loa	d capacities	to a			1960	1770
53,0	range o	of lift 42,0 m				1910	1720
54,0						1850	1670
55,0						1800	1620
56,0							1570
57,0							1530
58,0							1480
59,0							1440
60,0							1400

WOLFF 6017.10	CCplus	Crane data
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2.2.3.2 Load capacity [kg] 2 fall operation DIN 15018/H1 - B3

radius			len	gth of jib	[m]		
[m]	30	35	40	45	50	55	60
20,0	6000	6000	6000	6000	6000	6000	6000
21,0	6000	6000	6000	6000	6000	6000	6000
22,0	6000	6000	6000	6000	6000	6000	6000
23,0	6000	6000	6000	6000	6000	6000	6000
24,0	6000	6000	6000	6000	6000	6000	5750
25,0	6000	6000	6000	6000	6000	6000	5500
26,0	6000	6000	6000	6000	6000	5770	5230
27,0	6000	6000	6000	6000	5940	5520	5000
28,0	6000	6000	6000	5750	5700	5290	4790
29,0	5760	5760	5760	5520	5470	5070	4590
30,0	5500	5500	5500	5300	5300	4900	4400
31,0		5320	5320	5100	5050	4680	4230
32,0		5130	5130	4910	4860	4500	4060
33,0		4940	4940	4730	4680	4330	3910
34,0		4770	4770	4560	4520	4180	3770
35,0		4600	4600	4400	4400	4000	3600
36,0			4440	4250	4210	3890	3500
37,0			4300	4110	4070	3760	3380
38,0			4160	3970	3930	3630	3260
39,0			4030	3850	3810	3510	3150
40,0			3900	3700	3700	3400	3100
41,0				3610	3570	3290	2950
42,0				3500	3460	3190	2860
43,0				3400	3360	3090	2770
44,0				3300	3260	3000	2680
45,0				3200	3200	2900	2600
46,0					3080	2830	2520
47,0					2990	2750	2450
48,0					2910	2670	2380
49,0					2830	2590	2310
50,0					2800	2500	2200
51,0	I I	d capacities	to a			2450	2180
52,0	range	of lift 42,0 m				2390	2120
53,0	<u> </u>					2320	2060
54,0						2260	2000
55,0						2200	1900
56,0							1890
57,0							1840
58,0							1790
59,0							1750
60,0							1700

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2.2.3.3 Load capacity [kg] 4 fall operation DIN15018/H1 - B3

radius			len	gth of jib	[m]		
[m]	30	35	40	45	50	55	60
10,0	10000	10000	10000	10000	10000	10000	9000
11,0	10000	10000	10000	10000	10000	10000	9000
12,0	10000	10000	10000	10000	10000	10000	9000
13,0	10000	10000	10000	10000	10000	10000	9000
14,0	10000	10000	10000	10000	10000	9830	9000
15,0	10000	10000	10000	10000	10000	9100	8430
16,0	10000	10000	10000	9540	9320	8460	7830
17,0	9650	9580	9450	8920	8700	7900	7310
18,0	9050	8990	8870	8360	8160	7400	6840
19,0	8520	8460	8350	7870	7680	6960	6430
20,0	8040	7980	7880	7420	7240	6560	6050
21,0	7600	7550	7450	7010	6840	6190	5710
22,0	7210	7160	7060	6650	6480	5860	5400
23,0	6850	6800	6710	6310	6150	5560	5120
24,0	6520	6470	6380	6000	5850	5280	4860
25,0	6200	6200	6100	5700	5600	5000	4630
26,0	5940	5890	5810	5450	5320	4800	4410
27,0	5680	5630	5560	5220	5080	4580	4200
28,0	5430	5390	5320	4990	4860	4380	4010
29,0	5210	5170	5100	4780	4660	4190	3840
30,0	5000	5000	4900	4600	4500	4000	3700
31,0		4770	4700	4410	4290	3850	3520
32,0		4590	4520	4230	4120	3700	3380
33,0		4410	4350	4070	3960	3550	3240
34,0		4250	4190	3920	3820	3410	3120
35,0		4100	4000	3800	3700	3300	3000
36,0			3900	3640	3540	3170	2880
37,0			3760	3520	3420	3050	2780
38,0			3640	3400	3300	2940	2680
39,0			3520	3280	3190	2840	2580
40,0			3400	3200	3100	2700	2500
41,0				3070	2980	2650	2400
42,0				2970	2880	2560	2320
43,0	the load	d capacities	to a	2880	2790	2470	2240
44,0	l I	of lift 42,0 m		2790	2700	2390	2160
45,0		. ,		2700	2600	2300	2100
46,0					2540	2240	2020
47,0					2460	2170	1960
48,0					2390	2110	1890
49,0					2320	2040	1830
50,0					2300	2000	1800

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2.2.3.3 Load capacity [kg] 4 fall operation DIN 15018/H1 - B3

radius			len	gth of jib	[m]		
[m]	30	35	40	45	50	55	60
51,0						1920	1720
52,0						1860	1670
53,0						1810	1610
54,0						1750	1560
55,0						1700	1500
56,0							1470
57,0							1430
58,0							1380
59,0							1340
60,0							1300
		d capacities					
	range o	of lift 42,0 m					
					1		

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2.2.3.4 Load capacity [kg] 4 fall operation DIN 15018/H1 - B3

radius			le	ngth of jib	[m]		
[m]	30	35	40	45	50	55	60
10,0	10000	10000	10000	10000	10000	10000	9000
11,0	10000	10000	10000	10000	10000	10000	9000
12,0	10000	10000	10000	10000	10000	10000	9000
13,0	10000	10000	10000	10000	10000	10000	9000
14,0	10000	10000	10000	10000	10000	10000	9000
15,0	10000	10000	10000	10000	10000	10000	9000
16,0	10000	10000	10000	10000	10000	9840	8960
17,0	10000	10000	10000	9980	9880	9200	8370
18,0	9770	9770	9760	9360	9270	8630	7840
19,0	9200	9200	9190	8810	8730	8120	7470
20,0	8680	8680	8680	8320	8240	7660	6950
21,0	8220	8220	8210	7870	7790	7240	6570
22,0	7790	7790	7790	7470	7390	6860	6220
23,0	7410	7410	7400	7090	7020	6520	5900
24,0	7060	7060	7050	6750	6690	6200	5610
25,0	6730	6730	6700	6400	6400	5900	5300
26,0	6430	6430	6430	6150	6090	5640	5100
27,0	6150	6150	6150	5880	5820	5390	4870
28,0	5890	5890	5890	5640	5580	5160	4660
29,0	5650	5650	5650	5400	5350	4950	4460
30,0	5400	5400	5400	5200	5100	4700	4300
31,0		5220	5220	4990	4930	4560	4100
32,0		5020	5020	4800	4750	4380	3940
33,0		4840	4830	4620	4570	4220	3790
34,0		4660	4660	4450	4400	4060	3650
35,0		4500	4500	4300	4200	3900	3500
36,0			4340	4140	4100	3780	3380
37,0			4200	4000	3960	3650	3260
38,0			4060	3870	3830	3520	3150
39,0			3930	3740	3700	3400	3040
40,0			3800	3600	3600	3300	2900
41,0				3510	3470	3180	2840
42,0				3400	3360	3080	2750
43,0	the load	d capacities	to a	3300	3260	2990	2660
44,0		of lift 42,0 m	- ~	3200	3160	2890	2570
45,0	L			3100	3100	2800	2500
46,0					2970	2720	2410
47,0					2890	2640	2340
48,0					2810	2560	2270
49,0					2730	2490	2200
50,0					2700	2400	2100

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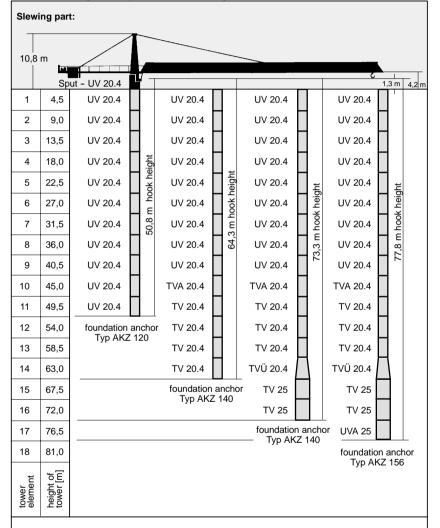
### 2.2.3.4 Load capacity [kg] 4 fall operation DIN 15018/H1 - B3

radius				length [n	n]		
[m]	30	35	40	45	50	55	60
51,0						2350	2070
52,0						2280	2010
53,0						2220	1950
54,0						2160	1900
55,0						2100	1800
56,0							1790
57,0							1740
58,0							1690
59,0							1650
60,0							1600
	the load	d capacities	to a				
		of lift 42,0 m					
	ĦL	T	<u> </u>				
			1	1	1		
			1	1	1		
			1	1	1		
			1	+	+	<u> </u>	
					+		
					+		
				+	+		
		l	1		1	1	



#### 2.2.6.1 Tower configurations

for a free standing stationary crane without climbing device on a concrete foundation.



For data regarding foundation anchors see section 12.

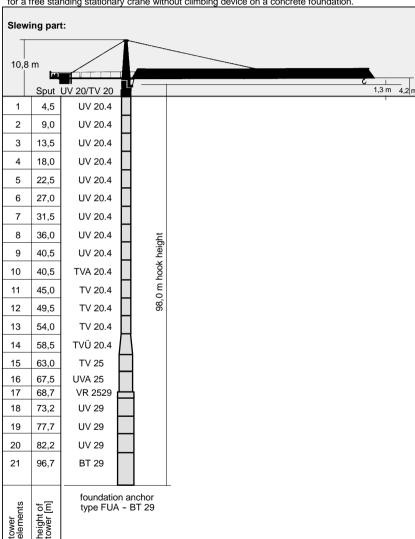
The tower configurations are recommended for economic crane installation and may be used in any case.

Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

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#### **Tower configurations** 2.2.6.2

for a free standing stationary crane without climbing device on a concrete foundation.



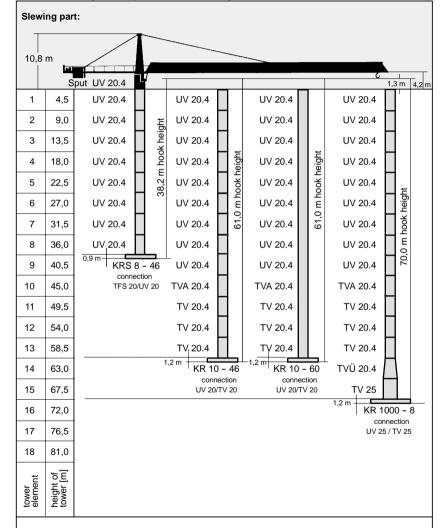
For data regarding foundation anchors see section 12.

The tower configurations are recommended for economic crane installation and may be used in any case. Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

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#### **Tower configurations** 2.2.7.1

for a free standing stationary crane without climbing device on a cross frame.



For data regarding cross frames see section 12.

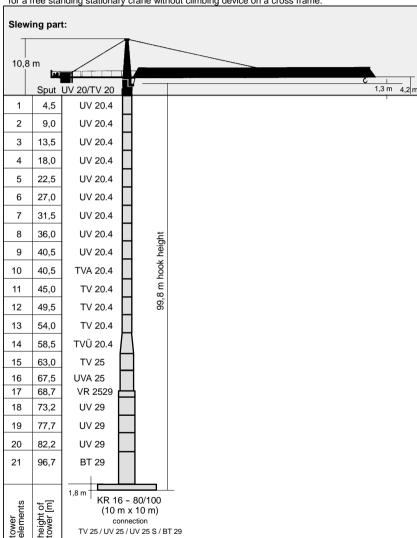
The tower configurations are recommended for economic crane installation and may be used in any

Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

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#### 2.2.7.2 Tower configurations

for a free standing stationary crane without climbing device on a cross frame.



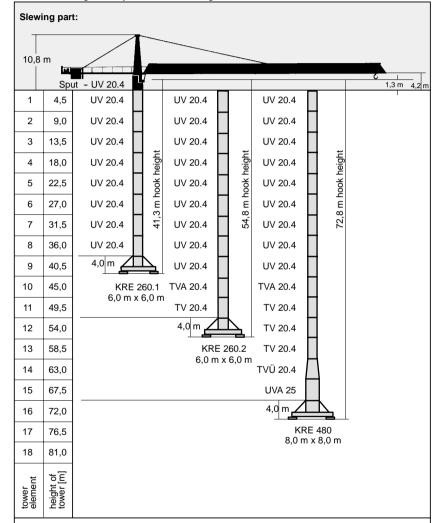
For data regarding cross frames see section 12.

The tower configurations are recommended for economic crane installation and may be used in any case. Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

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#### 2.2.8.1 Tower configurations

for a free standing stationary crane without climbing device on a cross frame elemet.



For data regarding cross frame elements see section 12.

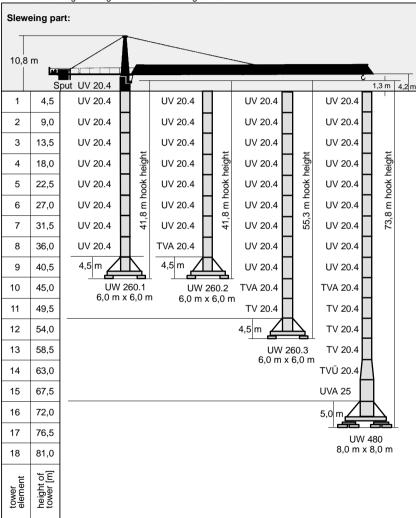
The tower configurations are recommended for economic crane installation and may be used in any case.

Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

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#### 2.2.9.1 Tower configuration

for a free standing travelling crane without climbing device.



For data regarding undercarriage see section 12.

The tower configurations are recommended for economic crane installation and may be used in any case.

Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

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#### 2.3.1 Colli list

item	psc.	Designation	Colli	L (m)	<b>B</b> (m)	<b>H</b> (m)	(kg)	m volume
1	1	tower top complete with platforms and diverse bracing parts (Sput - UV 20.4)		10,80	2,17	2,42	7860	56,72
	item 1 dasassembled	tower top upper part with platforms and div. bracing parts	L B	6,30	1,35	2,10	1720	17,86
	item 1 da	tower top lower part with slewing frame, KDV slewing drives and slip ring system	L B	5,92	2,17	2,42	6140	31,10
2	1	driver's cabin with driver's cabin suspension	H B	2,80	2,15	2,15	1100	14,75
		driver's cabin suspension	H B	1,03	2,01	0,59	230	1,22
4	1	counterjib with bracing parts	L B	13,48	2,38	0,55	2730	17,65
5	1	machinery platform Hw 637 FU with hoisting rope (Ø 16 mm x 265 m)	L B	2,38	2,29	2,17	2850	11,83
6	1	standard handrail (loose part)	L B	2,55	1,1	1,00	320	2,81
5	1	with driver's cabin suspension  driver's cabin suspension  counterjib with bracing parts  machinery platform Hw 637 FU with hoisting rope (Ø 16 mm x 265 m)  standard handrail	B H B H	1,03	2,01	0,5	555	59 230 55 2730 17 2850

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

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## 2.3.2 Colli list

item	pcs.	Designation	Colli	L	В	н	weight	volume
				(m)	(m)	(m)	(kg)	(m <sup>3)</sup>
7	1	jib part 1 with tolley drive	L B	10,19	1,26	1,96	1960	25,17
8	1	jib part 2	L B	10,23	1,23	1,96	1470	24,66
9	1	jib part <b>3</b> with bracings	L H	10,23	1,23	1,96	2400	24,66
10	1	jib part 4	M A H	5,25	1,23	1,76	620	11,37
11	1	jib part <b>5</b>	L B	10,23	1,23	1,76	1070	22,15
12	1	jib part 6	L B	10,19	1,23	1,75	865	21,93
13	1	jib part <b>7</b>	L H	5,25	1,23	1,96	650	12,66
14	1	rope swivel traverse	H L B	0,91	1,20	0,46	107	0,50
15	1	trolley	E H	1,87	1,50	0,96	360	2,69
16	1	hook block ( loose part )	L BH	1,02	0,26	1,70	560	0,45
17	1	box (small part)	L B H	1,6	0,9	0,8	370	1,15
		l				l		l

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

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## 2.5.1 Assembly weights - slewing part

	bracing brackets (1 x 600 mm, 2 x 5700 mm), drive's cabin driver's cabin suspension, platform with standard handrail	8 410 k
-	upper part of tower top compl. with bracing brackets and platform1 720 kg driver's cabin with suspension and standard handrail 1 230 kg lower part ot top with slewing frame, KDV, slewing drive 5 460 kg standard handrail and slip ring system	
Counterjil	o with Hw 637 FU complete counterweight stone 1,9 t (machinery platform), machinery platform Hw 637 FU with hoist rope (Ø 16 mm x 265 m) 2 bracing brackets (2 x 6330 mm) and standard handrail	7 860 k
-	counter jib with 2 bracing brackets and standard handrail 3 110 kg machinery platform Hw 637 FU + hoist rope (ø 16 mm x 265 m) 2 850 kg counterweight stone 1,9 t 1 900 kg	
	ey jib complete bracing brackets, trolley, trolley ropes, hook block and standard handrail	10 030 k
	ey jib complete bracing brackets, trolley, trolley ropes, hook block and standard handrail	9 200 k
	ey jib complete bracing brackets, trolley, trolley ropes, hook block and standard handrail	8 600 k
	ey jib complete  bracing brackets, trolley, trolley ropes, hook block and standard handrail	8 360 k
40 m Troll		
40 m Troll - 35 m Troll	bracing brackets, trolley, trolley ropes, hook block and standard handrail  ey jib complete	8 360 k 7 760 k 7 300 k

WOLFF 6017	Crane data
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#### 2.5.2 Assembly weights - cross frame / cross frame element / undercarriage

Cross frame KR 8 - 46 (without optional features)		5 000 kg
- 4 spigots TFS 20		200 kg
- 4 spigots UV 20		272 kg
- option 4 corner spindle		800 kg
Cross frame KR 10 - 60 (without optional features)		10 000 kg
- 4 spigots UV 20		272 kg
- 4 spigots TV 20		684 kg
- option 4 corner spindle		800 kg
Cross frame KR 1000 - 8		14 630 kg
- 4 spigots TV 25		684 kg
- 4 spigots UV 25		748 kg
Cross frame element KRE 260.1 kompl.		8 100 kg
<ul> <li>cross frame platform with swivel arms,</li> <li>corner bearings and transport safety devices</li> </ul>	4 320 kg	
base mast part with diagonal struts and track rod	3 780 kg	
Cross frame element KRE 260.2 kompl.		10 900 kg
<ul> <li>cross frame platform with swivel arms,</li> </ul>	5 455 kg	J
corner bearings and transport safety devices - base mast part with diagonal struts and track rod	5 445 kg	
Undercorrigge UW 260.4 kompl		11 400 kg
Undercarriage UW 260.1 kompl.  - undercarriage platform with swivel arms,	7 150 kg	11 400 kg
subframes and transport safety devices - subframes and transport safety devices	4 250 kg	
Undercarriage UW 260.2 kompl.	0.050.1	13 930 kg
<ul> <li>undercarriage platform with swivel arms, subframes and transport safety devices</li> </ul>	8 050 kg	
base mast part with diagonal struts and track rod	5 880 kg	
Undercarriage UW 260.3 kompl.		17 100 kg
- undercarriage platform with swivel arms,	11 220 kg	17 100 Kg
subframes and transport safety devices - base mast part with diagonal struts and track rod	5 880 kg	
- base mast part with diagonal struts and track fou	3 000 kg	

**WOLFF 6017** Crane data

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#### 2.5.3 Required height under hook for the mobile crane



#### Warning!

Use suspension ropes with sufficient capacity and observe suspension plan!

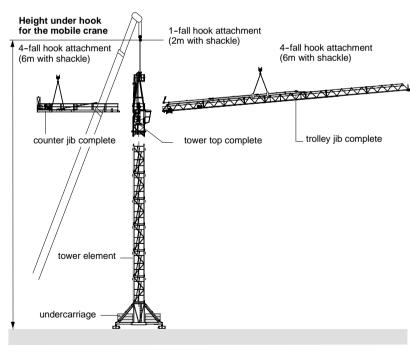
#### Required height under hook for mobile crane

Height under hook of WOLFF tower crane + min. 15 m.

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

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

Fifferences in ground (mobile crane basis - tower crane basis) must be considered for erection.



#### 2.6.1

#### Trolley jib - suspension plan - 60 m to 50 m jib



#### Danger in case of disassembling!

Release fixing bolts at the pivot point of the jib. Jib must be balanced before it can be extended. There mustn't be any loose parts on the jib. The parts of the jib are labeled with a building part identification at the top chord.

Lengths: jib part

1/2/3/5/6 = 10.0 m

= 5.0 m

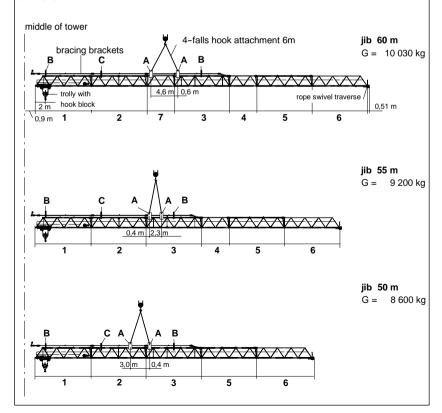
jib part rope swivel traverse

 $= 0.51 \, \text{m}$ 

More details about suspension A and support B and support C see next side.

For assembly hang on snatch block with 2 sling ropes DIN 3088 (Ø 8 mm x 1 m with shackle) to the trolley, reeve in assembly rope (perlon rope Ø 14 mm x 12 m) and secure at the trolley.

Before mounting the 60 m long jib you must insert a temporary counterweight, see pages 2/15 and 2/16.



**WOLFF 6017.10** 

Crane data

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#### Trolley jib - suspension plan -45 m to 30 m jib 2.6.2



#### Danger in case of disassembling!

Release fixing bolts at the pivot point of the jib. Jib must be balanced before it can be extended. There mustn't be any loose parts on the jib. The parts of the jib are labeled with a building part identification at the top chord.

Lengths:

jib part

= 10.0 m

jib part

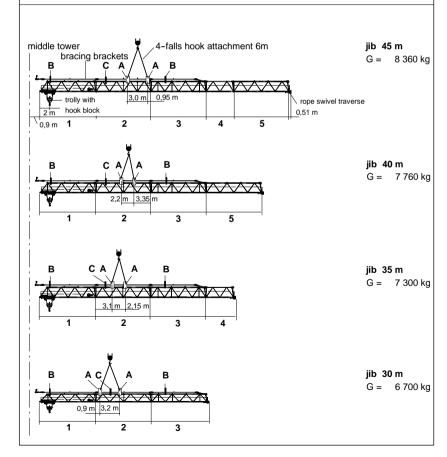
= 5.0 m

rope swivel traverse

= 0,51 m

More details about suspension A and support B and support C see next side.

For assembly hang on snatch block with 2 sling ropes DIN 3088 (Ø 8 mm x 1 m with shackle) to the trolley, reeve in assembly rope (perlon rope Ø 14 mm x 12 m) and secure at the trolley.



Crane data

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#### 2.7.1 Hoisting rope

Cable Ø = 16 mm + 4% + 2%

design according to DIN 15 020 kind of operation TWG 1 Am

First equipment

CASAR STARLIFT non twisting flexible hoisting rope with compressed cable core



nominal strength = 1770 N/mm² calc. breaking strength = 234,1 kN min. breaking strength = 178,1 kN weight per meter = 1,191 kg

Design

langs lay rope, right handed, made from cable wire.

middle space factor = 0,654 spinning loss factor = 0,76 weight factor = 0,90 total twist number = 245

Number of carryig wires in the outer strands is to be judged by the state of wear according to DIN 15020 BI. 2 / ISO DIS 4309 = 112

#### Basic equipment

cable length 265 m	for crane with	cable radius	4 fall 60 m
cable longin 200 m	Tor orano with	hook path	42 m

By lengthening the hook path by 1 tower element (4,5 m) the necessary cable length increases by 9 m for operation in 2 falls and 18 m for operation in 4 falls .

#### 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.

WOLFF 6017.10 Crane data

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#### 2.7.2 Traversing rope

Cable Ø = 8 mm + 4% + 2%

design according to DIN 15 020 kind of operation TWG 1 Am

First equipment

Design

CASAR UNILIFT cable with 8 strands
in non-overlapped double
parallel construction
made out of uncompressed strands

nominal strength = 1770 N/mm<sup>2</sup> calc. breaking strength = 57,4 kN min. breaking strength = 49,9 kN weight per meter = 0.282 kg

ordinary lay rope, right handed, surface of wires zinc coated.

middle space factor = 0,643 spinning loss factor = 0,90 weight factor = 0,87 total twist number = 119

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** 

#### **Basic equipment**

1 x 70 m cable lengths for crane with: radius 60 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.

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#### 2.8.1 Insertable exterior climbing gear

The following removable hydraulic exterior climbing gear can be used with the tower crane WOLFF 6017 FL - 6/10.

KWH 20.3

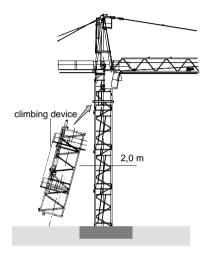
KWH 20.3 information is given in a seperate documentation in section 12, Additional Equipment.

Min. height with stationary erection:

3 tower elements = 13,5 m tower height

Min. height with travelling erection:

2 tower elements + undercarriage appr. 13,5 m tower height



#### 2.8.1.1 Balancing weights for climbing

- \* The indicated balancing weights are gross-weights of towersections or a load.
- \*\* The given (m) data for position of weights along jib are approximate only and refer to center of tower. The exact balance point is arrived at by short moves of trolley and is considered arrived when the towersection concerned lifts out of the resting tower without any friction. Be careful and try repeatedly until best possible balancing is assured.
- --- balancing not possible

for climbing in UV 20 tower	jib								
elements	30 m	35 m	40 m	45 m	50 m	55 m	60 m		
with balancing load * UV 20.4 = 1,95 t	** 14,8	14,4	14,5						
without balancing load				33,1	29,4	21,7	2,5		



#### Danger!

While climbing, the slewing part of the crane must be locked in the direction of of moving towersections in or out the tower. Until tower has been repinned fully and in all holes, the balancing must be kept and the slew part must remain locked. (For details, please see operational manual KWH 20.3). The climbing device is an auxilliary device for assembly and mustn't stay at the tower crane WOLFF under normal working conditions.

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#### 2.8.1 Insertable exterior climbing gear

The following removable hydraulic exterior climbing gear can be used with the tower crane WOLFF 6017 FL - 6/10 .

KWH 20.4

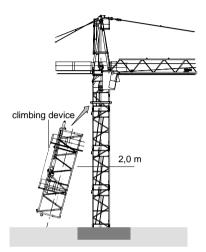
KWH 20.4 information is given in a seperate documentation in section 12, Additional Equipment.

Min. height with stationary erection:

3 tower elements = 13,5 m tower height

Min. height with travelling erection:

2 tower elements + undercarriage appr. 13,5 m tower height



#### 2.8.1.1 Balancing weights for climbing

- \* The indicated balancing weights are gross-weights of towersections or a load.
- \*\* The given (m) data for position of weights along jib are approximate only and refer to center of tower. The exact balance point is arrived at by short moves of trolley and is considered arrived when the towersection concerned lifts out of the resting tower without any friction. Be careful and try repeatedly until best possible balancing is assured.
- --- balancing not possible

for climbing in UV 20 tower	jib								
elements	30 m	35 m	40 m	45 m	50 m	55 m	60 m		
with balancing load * UV 20.4 = 1,95 t	** 13,9	13,5	13,6						
without balancing load				30,3	26,5	18,7			



#### Danger!

962-4-022312F

While climbing, the slewing part of the crane must be locked in the direction of of moving towersections in or out the tower. Until tower has been repinned fully and in all holes, the balancing must be kept and the slew part must remain locked. (For details, please see operational manual KWH 20.4). The climbing device is an auxilliary device for assembly and mustn't stay at the tower crane WOLFF under normal working conditions.

962-4-022311F

# WOLFF 6017 Crane data 2 / 87

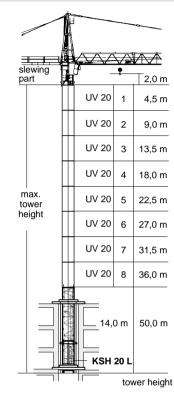
#### 2.8.5 Insertable internal climbing device KSH 20 L

For use of the WOLFF 6017 FL in connection with internal climbing device KSH20L, the tower combination has to be observed as shown here.

KSH20L informations is given in a seperate documentation in section 12, Additional Equipment.

#### 2.8.5.1 Table of balancing weights

- The indicated balancing weights are gross-weights of tower elements or load.
- \*\* The indicated radius refers to the centre of the tower and shall be treated as standard value. Exact balancing must achieved by travelling of trolley with tower element or load and can checked by measuring the distance between corner posts and guide plates. This distance shall be equal at all four corner posts.
- -- balancing not possible



6017 FL -	6	jib								
balancing v	veight *	30 m	35 m	40 m	45 m	50 m	55 m	60 m		
								**		
UV 20.4	= 1,95 t				33,9 m	33,0 m	31,6 m	25,8 m		
load	= 3,00 t	25,4 m	26,1 m	26,9 m	24,4 m					
load	= 5,00 t	16,6 m	17,1 m	17,6 m						

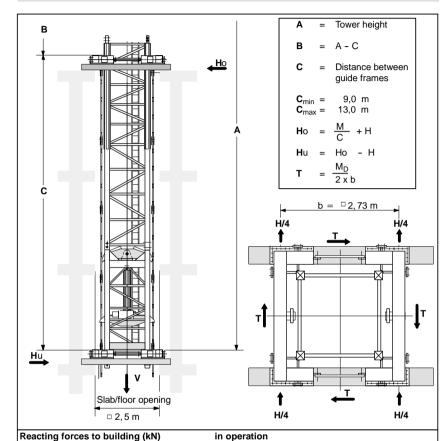
6017 FL -	6/10				jib			
balancing v	weight *	30 m	35 m	40 m	45 m	50 m	55 m	60 m
1								**
UV 20.4	= 1,95 t				31,1 m	30,2 m	28,9 m	23,6 m
load	= 3,00 t	23,8 m	24,5 m	25,2 m	22,9 m			
load	= 5,00 t	15,9 m	16,3 m	16,8 m				

962-4-022313E

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#### 2.8.5.2 Reacting forces to building

#### for internal hydraulic climbing device KSH 20 L



<b>A</b> (m)		45	,5			41	,0			36	5,5			32	2,0			
C(m)	9	10	11	13	9	10	11	13	9	10	11	13	9	10	11	13		
٧		83	30		810					79	90			770				
Ho	270	250	220	190	255	230	210	175	240	215	195	165	220	200	180	155		
Hu	240	210	190	155	225	195	175	145	205	185	165	135	195	170	155	125		
Т	Г 60						60				60				60			
	Reacting forces to building (kN)																	
Reac	ting f	orces	to bu	ilding	(kN)		OI	ut of c	perat	ion								
Reac A(m)	ting f	orces 45		ilding	(kN)	41		ut of c	perat		i,5			32	2,0			
	ting f			ilding 13	(kN) 9	<b>41</b>		13	perat 9		5 <b>,5</b>	13	9	<b>32</b>	2 <b>,0</b>	13		
<b>A</b> (m)		45	<b>,5</b>				<b>,0</b>			<b>36</b>	ŕ	13	9	10	<u> </u>	13		
<b>A</b> (m) <b>C</b> (m)		<b>45</b>	<b>,5</b>			10	<b>,0</b>			<b>36</b>	11	13	9 340	10	11	13		

0

0

962-4-027877E

# WOLFF 6017 Crane data 2 / 90

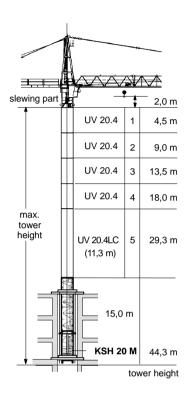
#### 2.8.6 Insertable internal climbing device KSH 20 M

For use of the WOLFF 6017 FL in connection with internal climbing device KSH 20 M, the tower combination has to be observed as shown here.

KSH20M informations is given in a seperate documentation in section 12, Additional Equipment.

#### 2.8.6.1 Table of balancing weights

- \* The indicated balancing weights are gross-weights of tower elements or load.
- \*\* The indicated radius refers to the centre of the tower and shall be treated as standard value. Exact balancing must achieved by travelling of trolley with tower element or load and can checked by measuring the distance between corner posts and guide plates. This distance shall be equal at all four corner posts.
- -- balancing not possible



6017 FL - 6				jib			
balancing weight *	30 m	35 m	40 m	45 m	50 m	55 m	60 m
							**
UV 20.4 = 1,95 t				33,9 m	33,0 m	31,6 m	25,8 m
load = 3,00 t	25,4 m	26,1 m	26,9 m	24,4 m			
load = 5,00 t	16,6 m	17,1 m	17,6 m				

6017 FL -	6/10	jib							
balancing v	veight *	30 m	35 m	40 m	45 m	50 m	55 m	60 m	
								**	
UV 20.4	= 1,95 t				31,1 m	30,2 m	28,9 m	23,6 m	
load	= 3,00 t	23,8 m	24,5 m	25,2 m	22,9 m				
load	= 5,00 t	15,9 m	16,3 m	16,8 m					

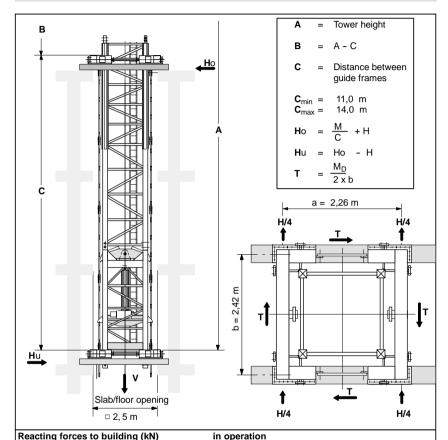
962-4-022316E

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### 2.8.6.2 Reacting forces to building

962-4-027878E

#### for internal hydraulic climbing device KSH 20 M



					(			-		-							
<b>A</b> (m)		44	,3			39	,8			35	,3			30	,8		
C(m)	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14	
٧		83	30			810				790				770			
Но	220	205	190	175	210	190	175	165	195	180	165	155	180	165	155	145	
Hu	190	170	155	140	175	160	145	130	165	150	135	125	155	140	125	115	
Т		6	0		60				6	0			6	0			
Reac	ting f	orces	to bu	ilding	(kN)		Ol	ut of c	perati	ion							
<b>A</b> (m)		44	,3			39	,8		35,3				30,8				
<b>C</b> (m)	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14	
٧		75	50			73	30			71	0			69	90		
Но	430	390	360	335	375	340	315	295	315	285	265	245	280	255	235	220	
Hu	300	260	230	205	250	215	190	170	190	165	145	125	160	140	120	105	
Т		(	0 0				0				0						

# WOLFF 6017 CC*plus* and series Static data 3 / 1

#### 3.1.1 Foundation loads according to DIN

Inclusive all dynamic factors, theory order II taken into account for statioary tower crane on a concrete foundation according to tower configuration without climbing device Permanent acting moment = 653 kNm  $\mathbf{M} = \text{moment} \quad \mathbf{H} = \text{horizintal force} \quad \mathbf{V} = \text{vertical load}$ 



## Foundation loads Jib length 30 - 60 m

height under hook			e in servi noment 2		Crane	out of s	ervice	Assembly			
[m]	[m]	M [kNm]	H [kN]	V [kN]	M [kNm]	H [kN]	V [kN]	M [kNm]	H [kN]	V [kN]	
14,8	15,5	1490	19	575	900	61	531	1421	13	333	
19,3	20,0	1600	21	595	1210	68	550	1498	15	351	
23,8	24,5	1720	22	615	1560	74	568	1585	16	369	
28,3	29,0	1850	24	635	1930	81	586	1681	18	387	
32,8	33,5	1980	25	655	2320	86	604	1788	19	405	
37,3	38,0	2110	27	675	2740	91	622	1906	21	424	
41,8	42,5	2250	28	695	3170	95	640	2036	22	442	
46,3	47,0	2390	30	715	3610	100	659	2178	24	460	
50,8	51,5	2520	31	735	4060	103	668	2334	25	478	
55,3	56,0	2770	34	778	4700	112	730	2477	28	517	
59,8	60,5	2950	36	820	5410	121	760	2644	30	555	
64,3	65,0	3120	38	851	6040	129	790	2833	32	583	
68,8	69,5	3370	41	890	6800	138	825	3005	35	619	
73,3	74,0	3600	43	925	7650	150	860	3209	37	651	
77,8	78,5	3800	45	961	8490	162	890	3420	39	687	
Atten	tion! T	ower cor	figuratio	n with b	asis towe	r BT 29					
80,0	80,7	3990	46	989	8710	163	943	3650	40	745	
84,5	85,2	4280	49	1021	9680	170	975	3880	42	778	
89,0	89,7	4570	51	1067	10700	181	1022	4110	45	824	
93,5	94,2	4880	54	1113	11710	192	1067	4370	48	871	
98,0	98,7	5220	56	1160	13820	211	1114	4640	51	917	
Attention! For the WOLFF 6017.6 only the column of for the hook height is valid.											

962-4-027647E

WOLFF 6017.10 CC*plus* and series Static data 3 / 5

#### 3.2.1.1 Center ballasts and corner loads acc. to DIN 15019

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





KRS	8 - 4	16		Corn	er dista	ance 4,	6 m x 4	1,6 m				Jib ler	ngth 3	0 m
	under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	王 Cer	dib p	A [kN]	Corner B [kN]	C [kN]	D [kN]	[kN]	dib	A [kN]	Corne B [kN]	C [kN]	<b>D</b> [kN]	[kN]
11,2	11,9	45,0	1	237	417	237	56	22	1	169	321	169	18	43
,_	,0	.0,0	2	364	364	109	109		2	276	276	62	62	
15,7	16,4	45,0	1	241	434	241	48	23	1	174	334	174	14	48
-,	- ,	-,-	2	378	378	105	105		2	287	287	61	61	
20,2	20,9	45,0	1	246	452	246	39	25	1	178	348	178	9	62
,	,	,	2	392	392	100	100		2	298	298	59	59	
24,7	25,4	45,0	1	250	472	250	28	26	1	183	363	183	3	69
,	,	,	2	407	407	93	93		2	310	310	56	56	
29,2	29,9	45,0	1	255	494	255	16	28	1	183	385	183	0	75
,	,	,	2	424	424	86	86		2	335	335	124	124	
33,7	34,4	50,0	1	272	530	272	14	29	1	247	452	247	42	82
			2	454	454	90	90		2	392	392	102	102	
38,2	38,9	62,5	1	308	586	308	29	31	1	283	550	283	16	89
			2	505	505	111	111		2	471	471	94	94	
42,7	43,4	77,5	1	350	651	350	48	32	1	315	669	315	0	95
			2	563	563	137	137		2	561	561	88	88	

WOLFF 6017.10 CCplus and series

Static data

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#### 3.2.1.2 Center ballasts and corner loads acc. to DIN 15019





KRS	8 - 4	ŀ6		Corn	er dista	ance 4,	6 m x 4	l,6 m			,	Jib ler	ngth 3	35 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position			of serv nent: 0		 Horizontal force
[m]	[m]	ပီ [t]	g	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	dib	A [kN]	B [kN]	C [kN]	D [kN]	년 [kN]
11,2	11,9	42,5	1 2	238	416	238	60	22	1 2	163	315	163	11	44
15,7	16,4	42,5	1 2	364 243 377	364 433 377	112 243 108	112 52 108	23	1 2	270 168 281	270 328 281	56 168 54	56 7 54	48
20,2	20,9	42,5	1 2	247 392	452 392	247 103	43	25	1 2	172	342 292	172 52	2 52	63
24,7	25,4	42,5	1 2	252 407	472 407	252 96	32 96	26	1 2	173 305	362 305	173 49	0 49	69
29,2	29,9	42,5	1 2	256 424	494 424	256 89	19 89	28	1 2	231	388 342	231 121	75 121	76
33,7	34,4	47,5	1 2	273 455	530 455	273 92	17 92	29	1 2	248 399	462 399	248 98	35 98	83
38,2	38,9	60,0	1 2	309 505	587 505	309 113	32 113	31	1 2	284 479	560 479	284 89	9	89
42,7	43,4	75,0	1 2	351 564	652 564	351 139	51 139	32	1 2	309 570	688 570	309 83	0 83	96

WOLFF 6017.10 CC*plus* and series Static data 3 / 7

#### 3.2.1.3 Center ballasts and corner loads acc. to DIN 15019

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





KRS	8 - 4	<b>16</b>		Corn	er dista	ance 4,	6 m x 4	4,6 m			,	Jib ler	ngth 4	0 m
	under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	[t]	dil	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	문 [kN]
11,2	11,9	37,5	1 2	231 354	405 354	231 108	57 108	22	1 2	149 262	304 262	149 73	0 73	44
15,7	16,4	37,5	1 2	236 368	422 368	236 104	49	23	1 2	150 274	321 274	150 70	73 0 70	49
20,2	20,9	37,5	1 2	240	441 382	240	40	25	1 2	149	341	149	0	63
24,7	25,4	37,5	1 2	382 245 398	461 398	99 245 92	99 29 92	26	1 2	287 147 301	287 363 301	66 147 61	66 0 61	70
29,2	29,9	37,5	1 2	250 415	483 415	250 84	16 84	28	1 2	225 341	389 341	225 108	60	77
33,7	34,4	45,0	1 2	273 452	526 452	273 94	20	29	1 2	248 405	470 405	248 91	26 91	83
38,2	38,9	57,5	1	309	583	309	35	31	1	282	570	282	0	90
42,7	43,4	72,5	1 2	502 351 561	502 648 561	351 440	115 53 140	33	1 2	485 297 576	709 576	297	82 0 75	96
				301	301	140	140			376	576	75	75	

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#### 3.2.1.4 Center ballasts and corner loads acc. to DIN 15019





KRS	8 - 4	<b>16</b>		Corn	er dista	nce 4,	6 m x 4	l,6 m			,	Jib ler	igth 4	5 m
	under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ie mon	of serv		Horizontal force
[m]	[m]	ပီ [t]	qiP	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	문 [kN]	diU	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	D [kN]	[kN]
11,2	11,9	35,0	1 2	231 356	408 356	231 105	53 105	22	1 2	152 286	348 286	152 40	0 40	45
15,7	16,4	35,0	1 2	235 370	426 370	235	45 100	24	1 2	150 298	370 298	150 36	0 36	50
20,2	20,9	35,0	1 2	240 384	444 384	240 95	35 95	25	1 2	146 312	395 312	146 32	0 32	64
24,7	25,4	35,0	1 2	244 400	465 400	244 88	24 88	27	1 2	142 326	422 326	142 27	0 27	71
29,2	29,9	35,0	1 2	249 417	487 417	249 80	11 80	28	12	136 359	452 359	136 88	0 88	77
33,7	34,4	37,5	1 2	260 442	517 442	260 77	2 77	30	1 2	219 412	501 412	219 58	0 58	84
38,2	38,9	55,0	_12	308 506	588 506	308 110	28 110	31	1	251 505	629 505	251 60	0 60	91
42,7	43,4	75,0	2	362 577	666 577	362 148	59 148	33	2	290 610	771 610	290 65	0 65	97

WOLFF 6017.10 CCplus and series Static data

#### 3.2.1.5 Center ballasts and corner loads acc. to DIN 15019

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





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KRS	8 - 4	16		Corn	er dista	ance 4,	6 m x 4	4,6 m				Jib ler	gth 5	0 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 r loads		Horizontal force
[m]	[m]	č [t]	qin	<b>A</b> [kN]	B [kN]	C [kN]	D [kN]	운 [kN]	dib	A [kN]	B [kN]	C [kN]	D [kN]	운 [kN]
11,2	11,9	35,0	1 2	233 360	413 360	233 106	54 106	22	_1_2	134 300	386 300	134 27	0 27	45
15,7	16,4	35,0	1 2	238	430 374	238	46	24	1 2	132 312	408 312	132	0	50
20,2	20,9	35,0	1	374 242	449	102 242	102 36	25	_1_	128	433	128	0	65
24,7	25,4	35,0	1	389 247	389 470	96 247	96 24	27	1	326 124	326 461	19 124	19	72
29,2	29,9	37,5	1	404 258	498	258	17	28	1	130	340 491	130	0	78
33,7	34,4	40,0	1	428 269	428 529	269	88	30	1	380 220	380 535	220	86	85
38,2	38,9	57,5	1	453 317	453 599	317	34	31	1	433 251	433 665	55 251	55 0	91
			2	517	517	117	117		2	527	527	57	57	

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#### 3.2.1.6 Center ballasts and corner loads acc. to DIN 15019





KRS	S 8 <b>-</b> 4	<del> </del> 6		Corn	er dista	ance 4,	6 m x 4	1,6 m			,	Jib ler	gth 5	55 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		— Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	Ce [t]	diL	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	ą	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	된 [kN]
11,2	11,9	42,5	1	260 379	428 379	260 141	92 141	22	1 2	127 353	480 353	127 14	0 14	46
15,7	16,4	45,0	1 2	271 399	452 399	271 143	90 143	24	1 2	137 372	503 372	137 17	0 17	51
20,2	20,9	47,5	1	281 420	477 420	281 143	86 143	25	1 2	146 392	528 392	146 18	0 18	66
24,7	25,4	50,0	1	292 442	442     442     143     14       303     533     303     303			27	1 2	154 413	557 413	154 19	0 19	72
29,2	29,9	52,5	1 2	303 465	303 533 303 465 465 141 1 314 563 314			28	1 2	159 439	588 439	159 117	0 117	79
33,7	34,4	55,0	1 2	314 490	563 490	314 137	64 137	30	1 2	164 492	623 492	164 86	0 86	86
38,2	38,9	62,5	1 2	337 529	337 609 337			32	1 2	270 562	708 562	270 62	0 62	92
								-						
								-						

WOLFF 6017.10

CCplus and series

Static data

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#### 3.2.1.7 Center ballasts and corner loads acc. to DIN 15019

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





KRS	8 - 4	16		Corn	er dista	ance 4,	6 m x 4	4,6 m				Jib ler	ngth 6	0 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force
[m]	[m]	č [t]	dil	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	분 [kN]	ä	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
11,2	11,9	42,5	1 2	266 386	436 386	266 145	96 145	22	1 2	134 374	509 374	134 14	0	46
15,7	16,4	45,0	1 2	277 406	460 406	277 147	94	24	1 2	144	532	144	0	51
20,2	20,9	47,5	1 2	287 427	485 427	287	90	25	1 2	153 413	557 413	153 19	0	66
24,7	25,4	50,0	1 2	298 449	512 449	298 147	85 147	27	1 2	160 434	586 434	160 19	0	73
29,2	29,9	52,5	1 2	309 473	541 473	309 145	77 145	28	1 2	165 472	618 472	165 101	0	79
33,7	34,4	55,0	1 2	320 498	571 498	320 142	68	30	1 2	169 527	653 527	169 68	0	86
38,2	38,9	70,0	1 2	362 555	636 555	362 168	88	31	1 2	287 616	784 616	287 62	0 62	93

WOLFF 6017.10 CCplus and series

#### 3.2.2.1 Center ballasts and corner loads DIN 15019

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





Static data

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t of servi																	Corn		6			
Crane in service torque moment: 240 kNm  Corner loads  Corner loads  Corner loads  A   B   C   D   H						me	ue mon			position (				nt: <b>240</b>	mome	ıe		position	Centerballasts		unde ook	heigh ho
<b>C</b> [kN]							<b>B</b> [kN]		A [kN]	≅			<b>D</b> [kN]	C [kN]	<b>B</b> [kN]		<b>A</b> [kN]	dib	ن [t]	ן [ו	[m]	[m]
169 62						1	321		169	1	ļ		55	236	418	1	236	1	42,5	,2	12,2	11,5
174	174	174	174	174	174	1	334	4	174	1	1	-	47	241	435	+	241	1	42,5	,7	16,7	16,0
178	178	178	178	178	178	_	348	8	178	1	†	t	38	245	453	+	245	1	42,5	,2	21,2	20,5
183	183	183	183	183	183		364	3	183	1	1		27	250	473	+	250	1	42,5	,7	25,7	25,0
181	181	181	181	181	181	‡	387	1	181	1	1	+	14	255	495	+	255	1	42,5	,2	30,2	29,5
122 253	253	253	253	253	253		462	3	253	1	1		19	278	537		278	1	50,0	,7	34,7	34,0
105 289	289	289	289	289	289		559	9	289	1			34	314	594		314	1	62,5	,2	39,2	38,5
310	310	310	310	310	310		677	0	310	1	1		47	349	652		349	1	75,0	,7	43,7	43,0
85 333	333	333	333	333	333		826	3	333	1	1		69	398	726		398	1	92,5	,2	48,2	47,5
385	385	385	385	385	385		988	5	385	1	1	-	109	465	821		465	1	117,5	,7	52,7	52,0
90 438	438	438	438	438	438	_	1156	8	438	1	1		153	533	913		533	1	140,0	,2	57,2	56,5
99 507	507	507	507	507	507		1347	7	507	1	1		205	615	1026		615	1	170,0	,7	61,7	61,0
578	578	578	578	578	578		1558	8	578	1	1		260	704	1147	т	704	1	202,5	,2	66,2	65,5
128	128	128	128	128	128		1229	9	1229	2	1		390	1017 1017 390 390				2	-			
											1								-			
											1									+		
							287 348 299 364 311 387 337 462 401 559 480 677 564 826 665 988 789 1156 917 1347	3 1 3 1 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	287 178 299 183 311 181 337 253 401 289 480 310 564 333 665 789 438 917 507	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1			104 38 99 27 92 14 85 19 95 34 116 47 135 69 109 213 153 265 205 325	104 245 99 250 92 255 85 278 95 314 116 349 135 398 166 465 213 533 265 615 325	378 453 392 473 408 495 424 537 461 594 512 652 564 772 630 821 717 913 802 1026 905 1147		378 245 392 250 408 255 424 278 461 314 512 349 564 398 465 717 533 802 615 905 704	2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	42,5 42,5 42,5 50,0 62,5 75,0 92,5 117,5 140,0	,2 ,7 ,2 ,7 ,2 ,7 ,2 ,7 ,2 ,7	21,2 25,7 30,2 34,7 39,2 43,7 48,2 52,7 57,2 61,7	20,5 25,0 29,5 34,0 38,5 43,0 47,5 52,0 61,0

Static data

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#### 3.2.2.2 Center ballasts and corner loads DIN 15019

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





KR	10 - 4	16		Corn	er dista	ance 4,	6 m x 4	l,6 m			•	Jib ler	ngth 3	5 m
ho	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
₩	ु र	Sen	d q		Corner			oriz	dib p			r loads		oriż
[m]	[m]	[t]	ίL	A [kN]	B [kN]	C [kN]	D [kN]	子 [kN]	ר	A [kN]	B [kN]	C [kN]	D [kN]	Ĭ [kN]
11,5	12,2	40,0	1	238	417	238	59	22	1	163	315	163	11	44
	,		2	365	365	111	111		2	271	271	55	55	
16,0	16,7	40,0	1	242	434	242	51	23	1	167	328	167	7	48
,	,		2	378	378	107	107		2	281	281	54	54	
20,5	21,2	40,0	1	247	453	247	42	25	1	172	343	172	1	63
,	,		2	392	392	102	102		2	293	293	51	51	
25,0	25,7	40,0	1	252	473	252	31	26	1	171	363	171	0	69
	,		2	408	408	95	95		2	305	305	48	48	
29,5	30,2	40,0	1	256	494	256	18	28	1	231	391	231	71	76
			2	425	425	88	88		2	344	344	118	118	
34,0	34,7	45,0	1	273	531	273	16	29	1	248	465	248	31	83
			2	455	455	91	91		2	401	401	95	95	
38,5	39,2	60,0	1	315	594	315	37	31	1	290	570	290	11	89
	,		2	512	512	118	118		2	488	488	93	93	
43,0	43,7	72,5	1	351	653	351	49	32	1	304	696	304	0	96
			2	565	565	137	137		2	572	572	80	80	
47,5	48,2	90,0	1	399	727	399	71	34	1	325	847	325	0	102
			2	631	631	167	167		2	674	674	75	75	
52,0	52,7	117,5	1	473	829	473	116	35	1	389	1012	389	0	109
			2	725	725	221	221		2	805	805	90	90	
56,5	57,2	140,0	1	541	921	541	161	38	1	441	1181	441	0	119
			2	810	810	272	272		2	934	934	98	98	
61,0	61,7	170,0	1	623	1034	623	212	40	1	509	1374	509	0	127
			2	914	914	332	332		2	1084	1084	112	112	
65,5	66,2	205,0	1	718	1163	718	272	42	1	591	1589	591	0	135
			2	1033	1033	403	403		2	1254	1254	131	131	
					-									

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#### 3.2.2.3 Center ballasts and corner loads DIN 15019





KR	10 - 4	16		Corn	er dista	ance 4,	6 m x 4	1,6 m			•	0 m		
	t under ook	Centerballasts	position		Crane in e mome	ent: <b>240</b>		— Horizontal force	Jib position		ue mon	of serv nent: 0		— Horizontal force
			dil	Α	В	С	D		₽	Α	В	С	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
11,5	12,2	35,0	1	231	406	231	56	22	_1_	148	305	148	0	44
			2	355	355	107	107		2	262	262	72	72	
16,0	16,7	35,0	1	236	423	236	48	23	_1_	148	323	148	0	49
			2	368	368	103	103		2	274	274	69	69	
20,5	21,2	35,0	_1_	240	442	240	39	25	_1_	148	343	148	0	63
			2	383	383	98	98		2	287	287	65	65	
25,0	25,7	35,0	1	245	462	245	28	26	1	146	365	146	0	70
			2	398	398	91	91		2	301	301	60	60	
29,5	30,2	35,0	1	249	484	249	15	28	_1_	224	392	224	57	77
			2	415	415	83	83		2	343	343	106	106	
34,0	34,7	45,0	1	279	533	279	25	29	1	254	479	28	83	
			2	458	458	99	99		2	413	413	94	94	
38,5	39,2	57,5	1	315	590	315	39	31	1	290	579	290	1	90
			2	509	509	120	120		2	494	494	85	85	
43,0	43,7	72,5	1	357	656	357	58	33	1	305	717	305	0	96
			2	568	568	145	145		2	585	585	78	78	
47,5	48,2	92,5	1	411	736	411	86	34	1	337	870	337	0	103
			2	641	641	181	181		2	694	694	79	79	
52,0	52,7	120,0	1	485	839	485	130	36	1	400	1038	400	0	110
			2	735	735	234	234		2	826	826	93	93	
56,5	57,2	142,5	1	553	931	553	175	38	1	452	1208	452	0	120
			2	820	820	286	286		2	955	955	101	101	
61,0	61,7	172,5	1	635	1044	635	225	40	1	518	1404	518	0	128
			2	925	925	345	345		2	1106	1106	114	114	
65,5	66,2	207,5	1	730	1174	730	285	42	1					136
			2	1044	1044	415	415		2					

Static data

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#### 3.2.2.4 Center ballasts and corner loads DIN 15019

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





[m]         [m]         [t]         [kN]         [k	KR	10 - 4	16		Corn	er dista	ance 4,	6 m x 4	4,6 m				Jib ler	gth 4	5 m
[m]         [m]         [t]         [kN]         [k		ook	enterballasts	position		e mome	ent: <b>240</b>		izontal force	position		ue mon	nent: 0		Horizontal force
11,5       12,2       32,5       1       230       409       230       52       22       1       150       350       150       0       4         16,0       16,7       32,5       1       235       426       235       43       24       1       148       372       148       0       5         20,5       21,2       32,5       1       239       445       239       34       25       1       145       397       145       0       6         20,5       21,2       32,5       1       239       445       239       34       25       1       145       397       145       0       6         20,5       25,7       32,5       1       244       466       244       22       27       1       140       424       140       0       7         29,5       30,2       32,5       1       249       488       249       9        28       1       134       454       134       0       7         29,5       30,2       32,5       1       249       488       249       9       28       1       134       454       134	[m]			diL				l		a i	1				[kN]
16,0         16,7         32,5         1         235         426         235         43         24         1         148         372         148         0         5           20,5         21,2         32,5         1         239         445         239         34         25         1         145         397         145         0         6           20,5         21,2         32,5         1         244         466         244         22         27         1         140         424         140         0         7           25,0         25,7         32,5         1         244         466         244         22         27         1         140         424         140         0         7           29,5         30,2         32,5         1         249         488         249         9         28         1         134         454         134         0         7           34,0         34,7         37,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         <	11,5	12,2		1	230	409	230	52	22	1	150	350	150	0	45
2   370   370   100   100   2   299   299   36   36   36   20,5   21,2   32,5   1   239   445   239   34   25   1   145   397   145   0   6   2   312   312   31   31   31   2   2   2   2   2   2   312   312   31   31				2	357	357	104	104		2	286	286	39	39	
20,5         21,2         32,5         1         239         445         239         34         25         1         145         397         145         0         6           25,0         25,7         32,5         1         244         466         244         22         27         1         140         424         140         0         7           29,5         30,2         32,5         1         249         488         249         9         2         362         362         26         26           34,0         34,7         37,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         <	16,0	16,7	32,5	1	235	426	235	43	24	_1	148	372	148	0	50
2   385   385   94   94   2   312   312   31   31				2	370	370	100	100		2	299	299	36	36	
25,0         25,7         32,5         1         244         466         244         22         27         1         140         424         140         0         7           29,5         30,2         32,5         1         249         488         249         9         28         1         134         454         134         0         7           34,0         34,7         37,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           43,0         43,7         75,0         1         368         689         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         <	20,5	21,2	32,5	1	239	445	239	34	25	_1_	145	397	145	0	64
29,5         30,2         32,5         1         249         488         249         9         28         1         134         454         134         0         7           34,0         34,7         37,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           47,5         48,2         100,0				2	385	385	94	94		2	312	312	31	31	
29,5         30,2         32,5         1         249         488         249         9         28         1         134         454         134         0         7           34,0         34,7         37,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           47,5         48,2         100,0         1         435         767         435         104         34         1         353         935         353         0         10           52,0         52,7         127,5	25,0	25,7	32,5	1	244	466	244	22	27	1	140	424	140	0	71
34,0         34,7         37,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           43,0         43,7         75,0         1         435         767         435         104         34         1         353         935         353         0         10           47,5         48,2         100,0				2	401	401	87	87		2	326	326	26	26	
34,0         34,7         37,5         1         266         525         266         6         30         1         227         508         227         0         8           38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           47,5         48,2         100,0         1         435         767         435         104         34         1         353         935         353         0         10           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           56,5         57,2         152,5 </td <td>29,5</td> <td>30,2</td> <td>32,5</td> <td>1</td> <td>249</td> <td>488</td> <td>249</td> <td>9</td> <td>28</td> <td>1</td> <td>134</td> <td>454</td> <td>134</td> <td>0</td> <td>77</td>	29,5	30,2	32,5	1	249	488	249	9	28	1	134	454	134	0	77
38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           47,5         48,2         100,0         1         435         767         435         104         34         1         353         935         353         0         10           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           56,5         57,2         152,5         1         583         969         583         198         39         1         478         1278         478         0         12           61,0         61,7         18				2	418	418	79	79		2	362	362	85	85	
38,5         39,2         52,5         1         308         589         308         27         31         1         247         637         247         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           47,5         48,2         100,0         1         435         767         435         104         34         1         353         935         353         0         10           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           56,5         57,2         152,5         1         583         969         583         198         39         1         478         1278         478         0         12           61,0         61,7         18	34,0	34,7	37,5	1	266	525	266	6	30	1	227	508	227	0	84
43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           47,5         48,2         100,0         1         435         767         435         104         34         1         353         935         353         0         10           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           52,0         52,7         152,5         1         583         969         583         198         39         1         478         1278         478         0         12           56,5         57,2         152,5         1         583         969         583         198         39         1         478         1278         478         0         12           61,0         61,7         18				2	449	449	82	82		2	420	420	61	61	
43,0         43,7         75,0         1         368         674         368         63         33         1         297         779         297         0         9           47,5         48,2         100,0         1         435         767         435         104         34         1         353         935         353         0         10           52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           56,5         57,2         152,5         1         583         969         583         198         39         1         478         1278         478         0         12           61,0         61,7         182,5         1         665         1083         665         248         41         1         542         1477         542         0         12           65,5         66,2         217,5         1         760         1213         760         307         43         1         621         1699         621         0         13	38,5	39,2	52,5	1	308	589	308	27	31	1	247	637	247	0	91
47,5     48,2     100,0     1     435     767     435     104     34     1     353     935     353     0     10       52,0     52,7     127,5     1     509     870     509     147     36     1     414     1107     414     0     11       56,5     57,2     152,5     1     583     969     583     198     39     1     478     1278     478     0     12       61,0     61,7     182,5     1     665     1083     665     248     41     1     542     1477     542     0     12       65,5     66,2     217,5     1     760     1213     760     307     43     1     621     1699     621     0     13				2	506	506	109	109		2	508	508	57	57	
47,5     48,2     100,0     1     435     767     435     104     34     1     353     935     353     0     10       52,0     52,7     127,5     1     509     870     509     147     36     1     414     1107     414     0     11       56,5     57,2     152,5     1     583     969     583     198     39     1     478     1278     478     0     12       61,0     61,7     182,5     1     665     1083     665     248     41     1     542     1477     542     0     12       65,5     66,2     217,5     1     760     1213     760     307     43     1     621     1699     621     0     13	43,0	43,7	75,0	1	368	674	368	63	33	1	297	779	297	0	97
52,0     52,7     127,5     1     509     870     509     147     36     1     414     1107     414     0     11       56,5     57,2     152,5     1     583     969     583     198     39     1     478     1278     478     0     12       61,0     61,7     182,5     1     665     1083     665     248     41     1     542     1477     542     0     12       65,5     66,2     217,5     1     760     1213     760     307     43     1     621     1699     621     0     13				2	584	584	153	153		2	619	619	68	68	
52,0         52,7         127,5         1         509         870         509         147         36         1         414         1107         414         0         11           56,5         57,2         152,5         1         583         969         583         198         39         1         478         1278         478         0         12           61,0         61,7         182,5         1         665         1083         665         248         41         1         542         1477         542         0         12           65,5         66,2         217,5         1         760         1213         760         307         43         1         621         1699         621         0         13	47,5	48,2	100,0	1	435	767	435	104	34	1	353	935	353	0	104
2     764     764     253     253     2     875     875     93     93       56,5     57,2     152,5     1     583     969     583     198     39     1     478     1278     478     0     12       61,0     61,7     182,5     1     665     1083     665     248     41     1     542     1477     542     0     12       65,5     66,2     217,5     1     760     1213     760     307     43     1     621     1699     621     0     13				2	670	670	201	201		2	741	741	80	80	
56,5     57,2     152,5     1     583     969     583     198     39     1     478     1278     478     0     12       61,0     61,7     182,5     1     665     1083     665     248     41     1     542     1477     542     0     12       65,5     66,2     217,5     1     760     1213     760     307     43     1     621     1699     621     0     13	52,0	52,7	127,5	1	509	870	509	147	36	1	414	1107	414	0	110
61,0     61,7     182,5     1     665     1083     665     248     41     1     542     1477     542     0     12       65,5     66,2     217,5     1     760     1213     760     307     43     1     621     1699     621     0     13				2	764	764	253	253		2	875	875	93	93	
61,0     61,7     182,5     1     665     1083     665     248     41     1     542     1477     542     0     12       65,5     66,2     217,5     1     760     1213     760     307     43     1     621     1699     621     0     13	56,5	57,2	152,5	1	583	969	583	198	39	1	478	1278	478	0	120
2         961         961         370         370         2         1163         118         118           65,5         66,2         217,5         1         760         1213         760         307         43         1         621         1699         621         0         13				2	856	856	311	311		2	1010	1010	106	106	
65,5 66,2 217,5 1 760 1213 760 307 43 1 621 1699 621 0 13	61,0	61,7	182,5	1	665	1083	665	248	41	1	542	1477	542	0	128
				2	961	961	370	370		2	1163	1163	118	118	
2 1080 1080 440 440 2 1336 1336 134 134	65,5	66,2	217,5	1	760	1213	760	307	43	1	621	1699	621	0	137
				2	1080	1080	440	440		2	1336	1336	134	134	
									-						
									-						

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#### 3.2.2.5 Center ballasts and corner loads DIN 15019





KR	10 - 4	16		Corn	er dista	ance 4,	6 m x 4	l,6 m			•	Jib ler	ngth 5	60 m
	t under	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 l		Horizontal force
-			dib	A	В	С	D		diL	A	В	С	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
11,5	12,2	32,5	1	233	413	233	53	22	_1	132	387	132	0	45
			2	361	361	106	106		2	300	300	26	26	
16,0	16,7	32,5	1	238	431	238	44	24	_1	130	410	130	0	50
			2	374	374	101	101		2	313	313	23	23	
20,5	21,2	32,5	1	242	450	242	34	25	_1_	127	435	127	0	65
			2	389	389	95	95		2	326	326	18	18	
25,0	25,7	32,5	1	247	471	247	23	27	1	122	463	122	0	72
			2	405	405	88	88		2	340	340	13	13	
29,5	30,2	35,0	1	258	499	258	16	28	_1	128	494	128	0	78
			2	429	429	87	87		2	382	382	83	83	
34,0	34,7	37,5	1	268	530	268	7	30	1	216	542	216	0	85
			2	453	453	83	83		2	435	435	52	52	
38,5	39,2	57,5	1	323	607	323	39	31	1	259	673	259	0	91
			2	524	524	122	122		2	536	536	60	60	
43,0	43,7	80,0	1	384	692	384	75	33	1	309	817	309	0	98
			2	602	602	166	166		2	648	648	70	70	
47,5	48,2	105,0	1	451	786	451	115	34	1	364	975	364	0	105
			2	688	688	214	214		2	771	771	81	81	
52,0	52,7	132,5	1	524	890	524	159	36	1	423	1149	423	0	111
			2	782	782	266	266		2	905	905	93	93	
56,5	57,2	157,5	1	599	988	599	209	39	1	486	1322	486	0	121
			2	874	874	323	323		2	1041	1041	106	106	
61,0	61,7	187,5	1	681	1103	681	259	41	1	550	1523	550	0	129
			2	979	979	382	382		2	1194	1194	117	117	
65,5	66,2	225,0	1	782	1239	782	324	43	1	639	1748	639	0	138
			2	1105	1105	458	458		2	1374	1374	139	139	

#### 3.2.2.6 Center ballasts and corner loads DIN 15019

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





KR	10 - 4	<b>16</b>		Corn	er dista	nce 4,	6 m x 4	l,6 m			•	Jib ler	ngth 5	5 m
	t under ook	Centerballasts	Jib position		Carne	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
-2-	٥	Cer	g		Corner			oriż	dib			r loads		. izi
[m]	[m]	[t]		A [kN]	<b>B</b> [kN]	<b>C</b>  [kN]	<b>D</b> [kN]	[kN]	′	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
11,5	12,2	40,0	1	260	429	260	91	22	1	126	482	126	0	46
			2	379	379	140	140		2	354	354	13	13	
16,0	16,7	42,5	1	270	452	270	89	24	1	136	505	136	0	51
			2	399	399	142	142		2	373	373	16	16	
20,5	21,2	45,0	1	281	478	281	85	25	1	145	530	145	0	66
			2	420	420	142	142		2	392	392	17	17	
25,0	25,7	47,5	1	292	505	292	79	27	1	152	559	152	0	72
			2	442	442	142	142		2	413	413	18	18	
29,5	30,2	50,0	1	303	534	303	72	28	1	158	591	158	0	79
		i i	2	466	466	140	140		2	441	441	115	115	
34,0	34,7	52,5	1	314	565	314	63	30	1	162	625	162	0	86
,		ĺ	2	491	491	136	136		2	494	494	83	83	
38,5	39,2	60,0	1	337	610	337	64	32	1	266	716	266	0	92
,		ĺ	2	530	530	144	144		2	565	565	59	59	
43,0	43,7	82,5	1	398	696	398	100	33	1	314	863	314	0	99
,		ĺ	2	608	608	187	187		2	678	678	68	68	
47,5	48,2	110,0	1	471	796	471	146	35	1	380	1024	380	0	105
		i i	2	701	701	241	241		2	808	808	84	84	
52,0	52,7	137,5	1	544	900	544	189	36	1	438	1202	438	0	112
		i i	2	796	796	293	293		2	944	944	94	94	
56,5	57,2	162,5	1	619	999	619	239	39	1	500	1376	500	0	122
-		i i	2	887	887	350	350		2	1081	1081	107	107	
61,0	61,7	195,0	1	707	1120	707	294	41	1	574	1582	574	0	130
		i i	2	999	999	415	415		2	1242	1242	123	123	

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#### 3.2.2.7 Center ballasts and corner loads DIN 15019





KR	10 - 4	<del>1</del> 6		Corn	er dista	ance 4,	6 m x 4	1,6 m			•	Jib ler	ngth 6	60 m
	t under ook	Centerballasts	position		Crane in e mome	ent: <b>240</b>		— Horizontal force	position		ue mon	of serv nent: 0		— Horizontal force
[m]	[m]	Č [t]	dil	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	ą	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]
11,5	12,2	40.0	1	266	437	266	94	22	1	132	510	132	0	46
11,3	12,2	40,0	2	387	387	145	145		2	374	374	132	13	40
16,0	16,7	42,5	1	276	460	276	92	24	1	143	533	143	0	51
10,0	10,7	12,0	2	406	406	146	146		2	393	393	16	16	0.
20,5	21,2	45,0	1	287	486	287	89	25	1	151	559	151	0	66
,-	,-	,.	2	427	427	147	147		2	413	413	18	18	
25,0	25,7	47,5	1	298	513	298	83	27	1	158	588	158	0	73
	,	,	2	450	450	146	146		2	434	434	18	18	
29,5	30,2	50,0	1	309	542	309	76	28	1	164	620	164	0	79
			2	473	473	144	144		2	475	475	98	98	
34,0	34,7	52,5	1					266	0	86				
			2	498	498	141	141		2	529	529	65	65	
38,5	39,2	67,5	1	362	637	362	86	31	1	282	792	282	0	93
			2	556	556	167	167		2	619	619	59	59	
43,0	43,7	92,5	_1	429	729	429	129	33	1	341	942	341	0	99
			2	641	641	216	216		2	739	739	73	73	
47,5	48,2	117,5	_1	496	823	496	168	34	1	393	1107	393	0	106
			2	727	727	264	264		2	865	865	82	82	
52,0	52,7	147,5	_1	575	934	575	217	36	1	461	1290	461	0	112
			2	829	829	322	322		2	1009	1009	97	97	
56,5	57,2	172,5	1	650	1032	650	268	39	1	522	1465	522	0	122
			2	920	920	380	380		2	1145	1145	109	109	
61,0	61,7	205,0	1	738	1154	738	323	41	1	594	1675	594	0	130
			2	1032	1032	444	444		2	1308	1308	124	124	

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#### 3.2.3.1 Center ballasts and corner loads DIN 15019

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





KR	10 - 6	60		Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	ngth 3	0 m
	t under	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		— Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	Ü [t]	dib	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	dib	A [kN]	B [kN]	C [kN]	D [kN]	분 [kN]
11,5	12,2	17,5	1	178	317	178	39	22	1	105	233	105	0	43
11,5	12,2	17,5	2	276	276	79	79	. 22	2	193	193	28	28	70
16,0	16,7	17,5	1	182	331	182	34	23	1	107	246	107	0	48
10,0	10,7	17,5	2	288	288	77	77		2	202	202	28	28	70
20,5	21,2	17,5	1	187	346	187	28	25	1	109	261	109	0	62
20,0		17,0	2	300	300	74	74		2	212	212	27	27	02
25,0	25,7	17,5	1	192	363	192	20	26	1	110	278	110	0	69
,-	,.	,-	2	313	313	71	71		2	222	222	26	26	
29,5	30,2	17,5	1	196	380	196	12	28	1	109	296	109	0	75
-,-	,	,-	2	326	326	66	66		2	254	254	88	88	
34,0	34,7	25,0	1	219	418	219	21	29	1	194	355	194	34	82
,	,	, í	2	360	360	79	79		2	308	308	81	81	
38,5	39,2	35,0	1	249	464	249	34	31	1	224	432	224	16	89
	,	, í	2	401	401	97	97		2	371	371	77	77	
43,0	43,7	45,0	1	278	511	278	46	32	1	247	519	247	0	95
			2	443	443	114	114		2	437	437	70	70	
47,5	48,2	55,0	1	308	560	308	56	34	1	249	633	249	0	102
			2	486	486	130	130		2	507	507	59	59	
52,0	52,7	75,0	1	363	636	363	89	35	1	296	758	296	0	108
			2	556	556	169	169		2	605	605	70	70	
56,5	57,2	92,5	1	418	710	418	127	38	1	344	887	344	0	118
			2	624	624	213	213		2	707	707	80	80	
61,0	61,7	112,5	1	476	790	476	161	40	1	385	1032	385	0	126
			2	698	698	253	253		2	816	816	86	86	
65,5	66,2	137,5	1	545	885	545	205	42	1	443	1194	443	0	135
			2	786	786	304	304		2	942	942	98	98	
								-						
	1			l		l .	l	<u> </u>			1	l		

WOLFF 6017.10 CCplus and series

#### 3.2.3.2 Center ballasts and corner loads DIN 15019

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





Static data

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KR	10 - 6	0		Corn	er dista	ance 6	m x 6 ı	n				Jib ler	gth 3	5 m
h	t under ook	Centerballasts	position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
À	¥	ent	d diL		Corner			orizo	d diV		Corne	r loads		oriz
[m]	[m]	(t)	ij	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	달 [kN]	<u></u>	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	Ĭ [kN]
11,5	12,2	15,0	1	179	317	179	42	22	1	92	233	92	0	44
			2	277	277	82	82		2	187	187	22	22	
16,0	16,7	15,0	1	184	331	184	37	23	1	94	247	94	0	48
			2	288	288	80	80		2	196	196	22	22	
20,5	21,2	15,0	1	189	346	189	31	25	1	96	262	96	0	63
			2	300	300	77	77		2	206	206	21	21	
25,0	25,7	15,0	1	193	363	193	24	26	1	97	279	97	0	69
			2	313	313	73	73		2	227	227	109	109	
29,5	30,2	15,0	1	198	380	198	15	28	1	96	297	96	0	76
			2	327	327	68	68		2	259	259	86	86	
34,0	34,7	22,5	1	221	418	221	23	29	1	196	362	196	30	83
			2	361	361	81	81		2	313	313	78	78	
38,5	39,2	30,0	1	244	458	244	31	31	1	219	433	219	5	89
			2	395	395	93	93		2	371	371	68	68	
43,0	43,7	42,5	1	280	512	280	48	32	1	243	534	243	0	96
			2	444	444	116	116		2	444	444	66	66	
47,5	48,2	55,0	1	316	567	316	64	34	1	257	650	257	0	102
			2	494	494	138	138		2	520	520	61	61	
52,0	52,7	75,0	1	370	644	370	97	35	1	303	776	303	0	109
			2	564	564	177	177		2	620	620	71	71	
56,5	57,2	92,5	1	426	718	426	135	38	1	350	906	350	0	119
			2	632	632	220	220		2	721	721	81	81	
61,0	61,7	115,0	1	490	805	490	174	40	1	402	1054	402	0	127
			2	712	712	267	267		2	837	837	92	92	
65,5	66,2	140,0	1	559	901	559	218	42	1	459	1218	459	0	135
			2	801	801	318	318		2	965	965	104	104	
		1						1						1

Static data

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#### 3.2.3.3 Center ballasts and corner loads DIN 15019

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





KR	10 - 6	60		Corn	er dista	ance 6	m x 6 r	n				Jib ler	ngth 4	0 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
_			dib	Α	В	С	D		ä	А	В	С	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
11,5	12,2	12,5	1	179	313	179	45	22	1	79	234	79	0	44
			2	274	274	84	84		2	188	188	42	42	
16,0	16,7	12,5	1	183	327	183	40	23	1	82	247	82	0	49
			2	285	285	82	82		2	198	198	41	41	
20,5	21,2	12,5	1	188	342	188	33	25	_1_	83	263	83	0	63
			2	297	297	79	79		2	209	209	39	39	
25,0	25,7	12,5	1	192	359	192	26	26	1	84	280	84	0	70
			2	310	310	75	75		2	230	230	105	105	
29,5	30,2	12,5	1	197	377	197	17	28	_1_	172	301	172	43	77
			2	324	324	70	70		2	263	263	81	81	
34,0	34,7	20,0	1	220	415	220	26	29	1	195	368	195	23	83
			2	358	358	83	83		2	317	317	73	73	
38,5	39,2	30,0	_1	250	461	250	39	31	1	225	446	225	3	90
			2	399	399	101	101		2	381	381	68	68	
43,0	43,7	40,0	1	279	509	279	50	33	1	234	550	234	0	96
			2	442	442	117	117		2	449	449	60	60	
47,5	48,2	55,0	_1	321	571	321	72	34	1	259	667	259	0	103
			2	498	498	145	145		2	532	532	61	61	
52,0	52,7	75,0	_1	376	648	376	104	36	1	304	796	304	0	110
			2	568	568	184	184		2	632	632	70	70	
56,5	57,2	92,5	1	432	722	432	142	38	1	351	926	351	0	120
			2	637	637	227	227		2	734	734	79	79	
61,0	61,7	115,0	1	495	809	495	181	40	1	402	1076	402	0	128
			2	717	717	273	273		2	851	851	90	90	
65,5	66,2	140,0	1	565	905	565	224	42	1	458	1243	458	0	136
			2	806	806	324	324		2	979	979	100	100	
	1	1		1	l	1	1	1	ı	ı	1	I	I	

WOLFF 6017.10 CCplus and series

Static data

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#### 3.2.3.5 Center ballasts and corner loads DIN 15019





KR	10 - 6	0		Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	ngth 4	15 m
	t under	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		 Horizontal force
[m]	[m]	Ü [t]	qin	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	diP	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	분 [kN]
11,5	12,2	12,5	1	184	321	184	47	22	1	99	268	99	0	45
,	,	,	2	281	281	87	87		2	211	211	22	22	
16,0	16,7	12,5	1	189	336	189	42	24	1	100	285	100	0	50
			2	293	293	85	85		2	222	222	20	20	
20,5	21,2	12,5	1	193	351	193	36	25	1	99	304	99	0	64
			2	305	305	82	82		2	233	233	18	18	
25,0	25,7	12,5	1	198	368	198	28	27	1	98	325	98	0	71
			2	318	318	78	78		2	250	250	96	96	
29,5	30,2	12,5	1	203	386	203	19	28	1	95	348	95	0	77
			2	332	332	73	73		2	283 283 72				
34,0	34,7	12,5	1	207	406	207	8	30	1	169	389	169	0	84
			2	348	348	67	67		2	320	320	44	44	
38,5	39,2	25,0	_1	243	458	243	27	31	1	192	489	192	0	91
			2	395	395	91	91		2	391	391	45	45	
43,0	43,7	42,5	_1	291	525	291	57	33	1	234	598	234	0	97
			2	457	457	126	126		2	477	477	55	55	
47,5	48,2	60,0	_1	339	594	339	85	34	1	270	717	270	0	104
			2	519	519	160	160		2	568	568	61	61	
52,0	52,7	80,0	_1	394	671	394	117	36	1	314	848	314	0	110
			2	590	590	198	198		2	669	669	69	69	
56,5	57,2	97,5	1	450	745	450	154	39	1	360	980	360	0	120
			2	659	659	241	241		2	771	771	78	78	
61,0	61,7	122,5	1	519	840	519	199	41	1	423	1133	423	0	128
			2	746	746	293	293		2	895	895	94	94	
65,5	66,2	147,5	1	589	936	589	242	43	1	477	1303	477	0	137
			2	835	835	344	344		2	1025	1025	104	104	
														-

Static data

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#### 3.2.3.5 Center ballasts and corner loads DIN 15019

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





KR	10 - 6	0		Corn	er dista	ance 6	m x 6 ı	n			•	Jib ler	ngth 5	0 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force
			dil	Α	В	С	D		dib	A	В	С	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
11,5	12,2	10,0	1	181	319	181	43	22	_1_	73	297	73	0	45
			2	279	279	83	83		2	216	216	6	6	
16,0	16,7	12,5	1	192	340	192	43	24	_1_	86	314	86	0	50
			2	296	296	87	87		2	233	233	11	11	
20,5	21,2	12,5	_1_	196	355	196	37	25	_1_	86	334	86	0	65
			2	309	309	84	84		2	244	244	8	8	
25,0	25,7	15,0	1	207	379	207	35	27	1	97	355	97	0	72
			2	328	328	86	86		2	268	268	96	96	
29,5	30,2	15,0	1	212	397	212	26	28	_1_	94	378	94	0	78
			2	343	343	80	80		2	301	301	72	72	
34,0	34,7	17,5	1	222	423	222	22	30	1	187	416	187	0	85
			2	364	364	80	80		2	344	344	50	50	
38,5	39,2	27,5	1	252	470	252	34	31	1	196	516	196	0	91
			2	406	406	98	98		2	409	409	44	44	
43,0	43,7	45,0	1	300	537	300	64	33	1	237	626	237	0	98
			2	467	467	133	133		2	497	497	54	54	
47,5	48,2	65,0	1	355	612	355	98	34	1	286	748	286	0	105
			2	537	537	173	173		2	594	594	65	65	
52,0	52,7	85,0	1	409	689	409	129	36	1	328	881	328	0	111
			2	607	607	211	211		2	696	696	73	73	
56,5	57,2	102,5	1	465	764	465	167	39	1	374	1014	374	0	121
			2	676	676	254	254		2	799	799	82	82	
61,0	61,7	125,0	1	528	852	528	205	41	1	423	1168	423	0	129
			2	757	757	300	300		2	916	916	91	91	
65,5	66,2	152,5	1	604	955	604	253	43	1	489	1340	489	0	138
			2	853	853	356	356		2	1053	1053	106	106	
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WOLFF 6017.10 CCplus and series

#### 3.2.3.6 Center ballasts and corner loads DIN 15019

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





Static data

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KR	10 - 6	60		Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	ngth 5	5 m
	t under ook	Centerballasts	position		Crane in e mome	ent: <b>240</b>			position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	(t)	dil	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]
11,5	12,2	22,5	1 2	220 311	349 311	220 128	90 128	22	1 2	103 274	369 274	103 13	0 13	46
16,0	16,7	22,5	1 2	224	364 323	224	85 126	24	1 2	103	387	103	0	51
20,5	21,2	22,5	1	229	380	126 229	78	25	1	102	407	102	0	66
25,0	25,7	25,0	1	335 240	335 403	240	77 122	27	1	296 113	296 429	113	0	72
29,5	30,2	27,5	1	355 251	355 428	124 251	74	28	1	315 122	315 453	122	0	79
34,0	34,7	30,0	1	376 261	376 454	125 261	125 69	30	1	351 130	351 479	101	101	86
38,5	39,2	32,5	1	397 272	397 482	125 272	125 63	32	1	394 220	394 549	79 220	79 0	92
43,0	43,7	47,5	1	420 314	420 543	124 314	124 86	33	1	248	441 661	53 248	53 0	99
47,5	48,2	67,5	1	476 369	476 618	153 369	153 119	35	1	523 295	523 785	55 295	55 0	105
52,0	52,7	87,5	1	545 423	545 696	192 423	192 151	36	1	621 336	621 922	66 336	66 0	112
56,5	57,2	105,0	1	616 479	616 770	230 479	230 188	39	1	724 381	724 1055	72 381	72 0	122
61,0	61,7	130,0	2 1	685 549	685 865	273 549	273 232	41	2 1	827 441	827 1213	81 441	81 0	130
			2	773	773	325	325		2	953	953	95	95	

Static data

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#### 3.2.3.7 Center ballasts and corner loads DIN 15019

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





KR	10 - 6	0		Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	ngth 6	0 m
	t under ook	Centerballasts	Jib position		Crane in			Horizontal force	position			of serv		Horizontal force
	8	ente	od o		Corner	r loads		rizo	od c		Corne	r loads		rizo
[m]	[m]	(t)	J.	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]	ą	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]
11,5	12,2	20,0	1	220	351	220	88	22	1	100	391	100	0	46
,-		-,-	2	312	312	127	127		2	286	286	9	9	
16,0	16,7	20,0	1	224	365	224	83	24	1	100	409	100	0	51
			2	324	324	124	124		2	297	297	8	8	
20,5	21,2	22,5	1	235	387	235	83	25	1	112	429	112	0	66
			2	342	342	127	127		2	315	315	12	12	
25,0	25,7	25,0	1	246	410	246	81	27	1	122	451	122	0	73
			2	362	362	129	129		2	338	338	109	109	
29,5	30,2	25,0	1	250	429	250	72	28	1	119	475	119	0	79
			2	376	376	124	124		2	372	372	83	83	
34,0	34,7	27,5	1	261	455	261	67	30	1	226	503	226	0	86
			2	398	398	124	124		2	416	416	61	61	
38,5	39,2	35,0	1	284	495	284	73	31	1	220	607	220	0	93
			2	434	434	135	135		2	476	476	47	47	
43,0	43,7	52,5	1	333	563	333	103	33	1	259	722	259	0	99
			2	495	495	170	170		2	565	565	55	55	
47,5	48,2	72,5	1	387	638	387	136	34	1	305	849	305	0	106
			2	565	565	210	210		2	665	665	65	65	
52,0	52,7	95,0	1	448	723	448	173	36	1	357	989	357	0	112
			2	642	642	254	254		2	775	775	76	76	
56,5	57,2	112,5	1	504	797	504	211	39	1	401	1123	401	0	122
			2	711	711	297	297		2	878	878	84	84	
61,0	61,7	137,5	1	573	892	573	255	41	1	460	1284	460	0	130
			2	799	799	348	348		2	1005	1005	97	97	

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#### 3.2.4.1 Center ballasts and corner loads DIN 15019

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





Static data

KR	1000	- 8		Corn	er dista	ance 8	m x 8 r	n			•	Jib ler	gth 3	0 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 l		Horizontal force
"	"	Ce	ä	Α	<b>B</b>	<b>C</b>	D	- 로	dil	Α	<b>B</b>	<b>C</b>	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
11,5	12,2	0,0	1	152	257	152	48	22	1	82	175	82	0	45
			2	226	226	78	78		2	147	147	23	23	
16,0	16,7	0,0	1	159	271	159	48	24	1	91	186	91	0	51
			2	238	238	80	80		2	158	158	27	27	
20,5	21,2	0,0	1	164	283	164	44	26	1	95	197	95	0	65
			2	248	248	79	79		2	166	166	27	27	
25,0	25,7	0,0	1	169	297	169	40	27	1	98	209	98	0	71
			2	259	259	78	78		2	186	186	101	101	
29,5	30,2	0,0	1	173	311	173	35	29	1	148	237	148	60	78
			2	270	270	76	76		2	211	211	85	85	
34,0	34,7	0,0	1	178	326	178	29	30	1	153	273	153	32	84
			2	282	282	73	73		2	238	238	67	67	
38,5	39,2	2,5	1	188	348	188	29	32	1	163	319	163	8	91
			2	301	301	75	75		2	274	274	53	53	
43,0	43,7	10,0	1	212	384	212	39	34	1	179	388	179	0	98
			2	334	334	90	90		2	324	324	49	49	
47,5	48,2	20,0	1	241	428	241	55	35	1	197	472	197	0	104
			2	373	373	109	109		2	383	383	49	49	
52,0	52,7	32,5	1	277	479	277	75	37	1	223	563	223	0	111
			2	420	420	134	134		2	451	451	53	53	
56,5	57,2	45,0	1	315	533	315	98	39	1	249	663	249	0	119
			2	469	469	161	161		2	525	525	56	56	
61,0	61,7	62,5	1	366	601	366	131	41	1	296	772	296	0	127
			2	532	532	200	200		2	614	614	68	68	
65,5	66,2	80,0	1	417	671	417	163	42	1	338	893	338	0	135
			2	597	597	237	237		2	708	708	76	76	
70,0	70,7	97,5	1	469	742	469	196	45	1	378	1019	378	0	145
			2	662	662	276	276		2	804	804	84	84	
74,5	75,2	117,5	1	527	820	527	233	47	1	426	1155	426	0	154
			2	734	734	319	319		2	910	910	93	93	

Static data

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#### 3.2.4.2 Center ballasts and corner loads DIN 15019

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





KR	1000	- 8		Corn	er dista	ance 8	m x 8 r	n				Jib ler	ngth 3	5 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv nent: 0		 Horizontal force
[m]	[m]	Ce [t]	dil	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	di	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
	<u> </u>			<u> </u>		· ·	· ·			· -		<u> </u>		
11,5	12,2	0,0	2	160	263	160	57	22	1 2	82	175	82	0	45
100	10.7	0,0	1	233	233 278	87 167	87 57	24	1	147 91	147 186	23	23 0	51
16,0	16,7	0,0	2	167 245	245	89	89	24	2	158	158	91 26		51
20,5	21,2	0,0	1	172	290	172	54	26	1	95	197	95	26 0	65
20,5	21,2	0,0	2	255	255	88	88	_ 20	2	173	173	121	121	00
25,0	25,7	0,0	1	176	303	176	49	28	1	151	215	151	88	72
25,0	25,1	0,0	2	266	266	87	87		2	196	196	107	107	12
29,5	30,2	0,0	1	181	317	181	44	29	1	156	248	156	63	78
25,5	30,2	0,0	2	277	277	84	84	25	2	221	221	90	90	, , ,
34,0	34,7	0,0	1	185	333	185	38	31	1	160	285	160	35	85
0 .,0	0 .,.	0,0	2	289	289	81	81	0.	2	249	249	72	72	
38,5	39,2	0,0	1	190	349	190	31	32	1	165	325	165	4	92
,-	,_	-,-	2	302	302	78	78		2	278	278	51	51	
43,0	43,7	7,5	1	213	385	213	41	34	1	177	399	177	0	98
-,-	-,	,-	2	335	335	92	92		2	329	329	47	47	
47,5	48,2	17,5	1	243	429	243	57	35	1	194	484	194	0	105
		,	2	374	374	111	111		2	389	389	47	47	
52,0	52,7	30,0	1	279	480	279	77	37	1	219	576	219	0	111
			2	421	421	136	136		2	457	457	50	50	
56,5	57,2	45,0	1	323	541	323	105	39	1	258	678	258	0	119
			2	477	477	169	169		2	538	538	59	59	
61,0	61,7	62,5	1	374	609	374	139	41	1	304	788	304	0	127
			2	540	540	207	207		2	628	628	70	70	
65,5	66,2	80,0	1	425	680	425	170	43	1	344	910	344	0	136
			2	605	605	245	245		2	722	722	78	78	
70,0	70,7	97,5	1	477	751	477	202	45	1	384	1038	384	0	145
			2	670	670	283	283		2	818	818	85	85	
74,5	75,2	117,5	1	535	829	535	240	47	1	431	1176	431	0	155
			2	743	743	326	326		2	925	925	94	94	

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#### 3.2.4.3 Center ballasts and corner loads DIN 15019





KR	1000	- 8		Corn	er dista	ance 8	m x 8 r	m			,	Jib ler	ngth 4	0 m
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	(t)	diL	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	[kN]	gi	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	년 [kN]
11,5	12,2	0.0	1	166	266	166	65	23	1	102	179	102	25	46
11,3	12,2	0,0	2	237	237	95	95		2	157	157	47	47	40
16,0	16,7	0,0	1	173	281	173	65	25	1	109	193	109	25	52
10,0	10,7	0,0	2	249	249	96	96		2	168	168	50	50	52
20,5	21,2	0,0	1	177	293	177	62	26	1	114	204	114	23	66
_0,0		0,0	2	259	259	95	95		2	181	181	124	124	
25,0	25,7	0,0	1	182	307	182	57	28	1	157	224	157	90	73
,-	,	•,•	2	270	270	94	94		2	205	205	109	109	
29,5	30,2	0,0	1	186	321	186	52	29	1	161	259	161	64	79
- , -	,	-,-	2	281	281	92	92		2	230	230	93	93	
34,0	34,7	0,0	1	191	336	191	46	31	1	166	296	166	36	86
	,	,	2	294	294	88	88		2	258	258	74	74	
38,5	39,2	0,0	1	196	352	196	39	32	1	171	336	171	5	92
			2	307	307	85	85		2	288	288	53	53	
43,0	43,7	5,0	1	213	383	213	43	34	1	170	410	170	0	99
			2	333	333	92	92		2	333	333	43	43	
47,5	48,2	17,5	1	248	433	248	64	35	1	199	496	199	0	106
			2	379	379	118	118		2	399	399	48	48	
52,0	52,7	30,0	1	284	484	284	84	37	1	223	590	223	0	112
			2	426	426	143	143		2	468	468	51	51	
56,5	57,2	45,0	1	329	545	329	112	39	1	261	693	261	0	120
			2	482	482	176	176		2	549	549	59	59	
61,0	61,7	62,5	1	380	614	380	145	41	1	307	805	307	0	128
			2	545	545	214	214		2	639	639	70	70	
65,5	66,2	80,0	1	430	685	430	176	43	1	346	929	346	0	137
			2	610	610	251	251		2	734	734	77	77	
70,0	70,7	97,5	1	482	756	482	209	45	1	386	1058	386	0	146
			2	676	676	289	289		2	831	831	83	83	
74,5	75,2	120,0	1	546	841	546	252	47	1	444	1198	444	0	155
			2	755	755	338	338		2	945	945	98	98	
					l					L				

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#### 3.2.4.4 Center ballasts and corner loads DIN 15019

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





KR	1000	- 8		Corn	er dista	ance 8	m x 8 r	n		Jib length 45 m						
ho	t under ook	Centerballasts	Jib position		Crane ir	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force		
ÁM	¥	eut	ď		Corner loads						, Ži					
[m]	[m]	(t)	≒	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	운 [kN]	ij	A [kN]	B [kN]	C [kN]	D [kN]	ゴ [kN]		
11,5	12,2	0,0	1	171	274	171	68	23	1	104	204	104	3	46		
,-	,	-,-	2	244	244	99	99		2	175	175	32	32			
16,0	16,7	0,0	1	178	289	178	68	25	1	111	218	111	3	52		
			2	256	256	100	100		2	187	187	35	35			
20,5	21,2	0,0	1	183	301	183	65	26	1	115	230	115	1	67		
			2	267	267	99	99		2	197	197	119	119			
25,0	25,7	0,0	1	187	315	187	60	28	1	162	245	162	80	73		
			2	277	277	98	98		2	221	221	104	104			
29,5	30,2	0,0	1	192	329	192	55	29	1	167	280	167	54	80		
-			2	289	289	95	95		2	247	247	87	87			
34,0	34,7	0,0	1	197	344	197	49	31	1	172	318	172	25	87		
			2	301	301	92	92		2	275	275	68	68			
38,5	39,2	0,0	1	201	361	201	41	32	1	170	365	170	0	93		
			2	314	314	88	88		2	305	305	47	47			
43,0	43,7	7,5	1	224	398	224	51	34	1	176	445	176	0	100		
			2	347	347	102	102		2	357	357	42	42			
47,5	48,2	20,0	1	260	448	260	72	35	1	204	533	204	0	106		
			2	393	393	127	127		2	424	424	47	47			
52,0	52,7	35,0	1	302	506	302	98	37	1	240	629	240	0	113		
			2	447	447	158	158		2	499	499	55	55			
56,5	57,2	50,0	1	347	568	347	126	39	1	277	733	277	0	121		
			2	503	503	191	191		2	581	581	63	63			
61,0	61,7	65,0	1	391	630	391	152	41	1	309	847	309	0	129		
			2	560	560	222	222		2	666	666	67	67			
65,5	66,2	85,0	1	448	708	448	189	43	1	360	973	360	0	138		
			2	632	632	265	265		2	768	768	79	79			
70,0	70,7	102,5	1	500	779	500	221	45	1	399	1104	399	0	147		
			2	697	697	303	303		2	865	865	85	85			
74,5	75,2	125,0	1	564	865	564	264	47	1	456	1246	456	0	156		
			2	777	777	352	352		2	980	980	99	99			

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#### 3.2.4.5 Center ballasts and corner loads DIN 15019





KR	1000	- 8		Corn	er dista	ance 8	m x 8 r	Jib length 50 m						
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force
[m]	[m]	(t)	qin	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	[kN]	ą	A [kN]	B [kN]	C [kN]	D [kN]	위 [kN]
<u> </u>	<u> </u>		_			<u> </u>		23	_	97			<u> </u>	
11,5	12,2	0,0	2	174 247	278 247	174 101	70 101	23	1 2	183	223 183	97 25	<u>0</u> 25	47
16,0	16,7	0,0	1	181	292	181	70	25	1	104	237	104	0	53
10,0	10,7	0,0	2	260	260	102	102	25	2	195	195	27	27	33
20,5	21,2	0,0	1	186	305	186	66	27	1	106	251	106	0	67
20,3	21,2	0,0	2	270	270	101	101	21	2	206	206	115	115	07
25.0	25,7	0,0	1	190	319	190	62	28	1	107	266	107	0	74
20,0	20,7	0,0	2	281	281	99	99	20	2	230	230	101	101	'-
29,5	30,2	0,0	1	195	333	195	56	30	1	170	292	170	48	81
20,0	00,2	0,0	2	293	293	97	97		2	256	256	83	83	0.
34,0	34,7	0,0	1	199	349	199	50	31	1	174	330	174	19	87
,-	,.	-,-	2	305	305	94	94		2	284	284	64	64	
38,5	39,2	0,0	1	204	365	204	42	33	1	165	386	165	0	94
,-	,=	•,•	2	318	318	90	90		2	315	315	43	43	
43,0	43,7	10,0	1	233	408	233	58	34	1	184	467	184	0	100
,	,	'	2	357	357	110	110		2	373	373	43	43	
47,5	48,2	22,5	1	269	459	269	79	36	1	211	555	211	0	107
			2	403	403	135	135		2	441	441	48	48	
52,0	52,7	37,5	1	311	517	311	105	37	1	246	652	246	0	114
			2	457	457	165	165		2	517	517	56	56	
56,5	57,2	52,5	1	356	579	356	133	39	1	283	758	283	0	122
			2	514	514	198	198		2	599	599	63	63	
61,0	61,7	70,0	1	407	648	407	165	41	1	327	873	327	0	130
			2	577	577	236	236		2	690	690	73	73	
65,5	66,2	87,5	1	457	719	457	196	43	1	364	1001	364	0	138
			2	643	643	272	272		2	786	786	79	79	
70,0	70,7	107,5	1	515	797	515	234	45	1	415	1133	415	0	147
			2	715	715	316	316		2	891	891	90	90	
74,5	75,2	127,5	1	573	877	573	270	47	1	459	1276	459	0	157
			2	788	788	359	359		2	1000	1000	97	97	

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#### 3.2.4.6 Center ballasts and corner loads DIN 15019

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





KR	1000	- 8		Corn	er dista	nce 8	m x 8 r	n		Jib length 55 m						
ho	t under ook	Centerballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force		
ÁM	₹	en	рр		Corner loads						Sri .					
[m]	[m]	(t)	≒	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	윈 [kN]	<u>-</u> 5	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	Ĭ [kN]		
11,5	12,2	0,0	1	182	279	182	85	23	1	73	277	73	0	47		
			2	251	251	113	113		2	204	204	8	8			
16,0	16,7	0,0	1	189	294	189	84	25	1	80	291	80	0	53		
			2	263	263	115	115		2	215	215	10	10			
20,5	21,2	0,0	1	193	306	193	81	27	1	82	305	82	0	68		
			2	273	273	114	114		2	225	225	9	9			
25,0	25,7	0,0	1	198	320	198	76	28	1	83	321	83	0	75		
			2	284	284	112	112		2	245	245	101	101			
29,5	30,2	0,0	1	203	335	203	71	30	1	83	339	83	0	81		
			2	296	296	109	109		2	272	272	84	84			
34,0	34,7	2,5	1	213	356	213	70	31	1	95	359	95	0	88		
		i i	2	315	315	112	112		2	307	307	70	70			
38,5	39,2	2,5	1	218	373	218	63	33	1	181	410	181	0	95		
		i i	2	328	328	108	108		2	338	338	48	48			
43,0	43,7	10,0	1	241	410	241	72	34	1	186	492	186	0	101		
			2	361	361	122	122		2	390	390	42	42			
47,5	48,2	22,5	1	277	461	277	93	36	1	213	582	213	0	108		
			2	407	407	147	147		2	458	458	46	46			
52,0	52,7	37,5	1	319	519	319	119	37	1	247	681	247	0	114		
			2	461	461	177	177		2	535	535	53	53			
56,5	57,2	52,5	1	364	581	364	146	39	1	283	789	283	0	122		
			2	517	517	210	210		2	618	618	60	60			
61,0	61,7	70,0	1	414	651	414	178	41	1	326	906	326	0	130		
			2	581	581	247	247		2	710	710	69	69			
65,5	66,2	90,0	1	472	728	472	215	43	1	375	1037	375	0	139		
			2	653	653	290	290		2	813	813	80	80			
70,0	70,7	110,0	1	530	806	530	253	45	1	424	1171	424	0	148		
			2	725	725	334	334		2	918	918	91	91			

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#### 3.2.4.7 Center ballasts and corner loads DIN 15019

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





KR	1000	- 8		Corn	er dista	nce 8	m x 8 r	n	Jib length 60 m						
	t under ook	Centerballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position	Crane out of service torque moment: 0 kNm					
ن ا	ا د	Cer	d qi					oriż	dib		Corne			– Horizontal force	
[m]	[m]	[t]	7	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	,	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	
11,5	12,2	0,0	1	188	286	188	89	23	1	85	294	85	0	48	
,		, i	2	257	257	118	118		2	220	220	12	12		
16,0	16,7	0,0	1	195	301	195	89	25	1	93	307	93	0	53	
,	,	,	2	270	270	120	120		2	232	232	14	14		
20,5	21,2	0,0	1	199	313	199	85	26	1	94	322	94	0	69	
			2	280	280	119	119		2	243	243	111	111		
25,0	25,7	0,0	1	204	327	204	81	28	1	95	338	95	0	75	
			2	291	291	117	117		2	268	268	95	95		
29,5	30,2	0,0	1	208	342	208	75	29	1	96	356	96	0	82	
			2	303	303	114	114		2	294	294	78	78		
34,0	34,7	0,0	1	213	357	213	69	31	1	191	378	191	3	88	
			2	315	315	111	111		2	323	323	58	58		
38,5	39,2	2,5	1	224	380	224	67	32	1	176	452	176	0	95	
			2	334	334	113	113		2	361	361	41	41		
43,0	43,7	12,5	1	253	423	253	83	34	1	194	536	194	0	102	
			2	374	374	133	133		2	421	421	41	41		
47,5	48,2	27,5	1	295	480	295	110	35	1	232	629	232	0	108	
			2	426	426	165	165		2	495	495	51	51		
52,0	52,7	42,5	1	337	539	337	136	37	1	265	730	265	0	115	
			2	480	480	195	195		2	573	573	57	57		
56,5	57,2	57,5	1	382	601	382	163	39	1	299	839	299	0	123	
			2	537	537	227	227		2	656	656	63	63		
61,0	61,7	75,0	1	433	671	433	195	41	1	341	959	341	0	131	
			2	601	601	265	265		2	749	749	71	71		
65,5	66,2	95,0	1	490	748	490	231	43	1	389	1093	389	0	139	
			2	673	673	307	307		2	854	854	81	81		
70,0	70,7	115,0	1	548	827	548	269	45	1	436	1229	436	0	149	
			2	745	745	351	351		2	960	960	91	91		

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### 3.2.5.1 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 80	Corner distance 8,0 m x 8,0 m	jib 30 m
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[m]         [m]         [t]         [kN]         [k	height hoo	under ok	Center ballasts	position		Crane in service orque moment: <b>240</b> kNm			- Horizontal force	position	Crane out of service torque moment: 0 kNm  Corner loads				Horizontal force
81,8         82,5         140         1         616         945         616         287         54         1         499         1366         499         0         1           86,3         87,0         165         1         687         1039         687         334         56         1         560         1527         560         0         1           90,8         91,5         190         1         761         1138         761         384         58         1         622         1698         623         0         1           95,3         96,0         215         1         835         1238         835         432         61         1         676         1886         677         0         2           99,8         100,5         270         1         984         1415         984         553         64         1         813         2210         813         0         2		_	-	đị						e.					[kN]
81,8         82,5         140         1         616         945         616         287         54         1         499         1366         499         0         1           86,3         87,0         165         1         687         1039         687         334         56         1         560         1527         560         0         1           90,8         91,5         190         1         761         1138         761         384         58         1         622         1698         623         0         1           95,3         96,0         215         1         835         1238         835         432         61         1         676         1886         677         0         2           99,8         100,5         270         1         984         1415         984         553         64         1         813         2210         813         0         2	79.6	80.3	140	1	603	924	603	281	52	1	499	1312	499	0	171
81,8         82,5         140         1         616         945         616         287         54         1         499         1366         499         0         1           86,3         87,0         165         1         687         1039         687         334         56         1         560         1527         560         0         1           90,8         91,5         190         1         761         1138         761         384         58         1         622         1698         623         0         1           95,3         96,0         215         1         835         1238         835         432         61         1         676         1886         677         0         2           99,8         100,5         270         1         984         1415         984         553         64         1         813         2210         813         0         2	10,0	00,0	1 10			-		-	02			_			'' '
86,3     87,0     165     1     687     1039     687     334     56     1     560     1527     560     0     1       90,8     91,5     190     1     761     1138     761     384     58     1     622     1698     623     0     1       90,8     91,5     190     1     761     1138     761     384     58     1     622     1698     623     0     1       2     1027     1027     494     494     2     1336     1336     135     135       95,3     96,0     215     1     835     1238     835     432     61     1     676     1886     677     0     2       2     1120     1120     550     550     2     1477     1477     143     143       99,8     100,5     270     1     984     1415     984     553     64     1     813     2210     813     0     2	81,8	82,5	140	1				287	54	1	499		499	0	173
90,8         91,5         190         1         761         1138         761         384         58         1         622         1698         623         0         1           95,3         96,0         215         1         835         1238         835         432         61         1         676         1886         677         0         2           99,8         100,5         270         1         984         1415         984         553         64         1         813         2210         813         0         2	- ,-	, ,		2	849	849		384		2	1074		108	108	
90,8         91,5         190         1         761         1138         761         384         58         1         622         1698         623         0         1           95,3         96,0         215         1         835         1238         835         432         61         1         676         1886         677         0         2           99,8         100,5         270         1         984         1415         984         553         64         1         813         2210         813         0         2	86,3	87,0	165	1	687	1039	687	334	56	1	560	1527	560	0	183
95,3         96,0         215         1         835         1238         835         432         61         1         676         1886         677         0         2           99,8         100,5         270         1         984         1415         984         553         64         1         813         2210         813         0         2				2	936	936	437	437	•	2	1202	1202	122	122	
95,3     96,0     215     1     835     1238     835     432     61     1     676     1886     677     0     2       2     1120     1120     550     550     2     1477     1477     143     143       99,8     100,5     270     1     984     1415     984     553     64     1     813     2210     813     0     2	90,8	91,5	190	1	761	1138	761	384	58	1	622	1698	623	0	194
2     1120     1120     550     550     2     1477     143     143       99,8     100,5     270     1     984     1415     984     553     64     1     813     2210     813     0     2				2	1027	1027	494	494		2	1336	1336	135	135	
99,8 100,5 270 1 984 1415 984 553 64 1 813 2210 813 0 2	95,3	96,0	215	1	835	1238	835	432	61	1	676	1886	677	0	206
				2	1120	1120	550	550		2	1477	1477	143	143	
2     1289     1289     679     679     2     1740     1740     177     177	99,8	100,5	270	1	984	1415	984	553	64	1	813	2210	813	0	223
				2	1289	1289	679	679		2	1740	1740	177	177	

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### 3.2.5.2 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

## Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 80 Corner distance 8,0 m x 8,0 m jib 35	m
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height ho		Center ballasts	position		Crane in e mome Corner	ent: <b>240</b> r loads		- Horizontal force	position		ue mon	of serv nent: 0 r loads		Horizontal force
[m]	[m]	(t)	ď	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	Ĭ [kN]	ď	A [kN]	B [kN]	C [kN]	D [kN]	Ĭ [kN]
79,6	80,3	140	1	610	934	610	287	52	1	504	1334	504	0	172
			2	839	839	382	382		2	1057	1057	114	114	
81,8	82,5	140	1	624	954	624	293	54	1	504	1388	504	0	174
			2	857	857	390	390		2	1090	1090	108	108	
86,3	87,0	165	1	694	1049	694	340	56	1	564	1550	564	0	183
			2	945	945	444	444		2	1218	1218	121	121	
90,8	91,5	190	1	768	1148	768	389	59	1	625	1723	626	0	194
			2	1037	1037	500	500		2	1353	1353	134	134	
95,3	96,0	220	1	855	1261	855	449	61	1	703	1914	704	0	206
			2	1142	1142	568	568		2	1507	1507	153	153	
99,8	100,5	270	1	992	1426	992	557	64	_1	812	2243	812	0	224
			2	1299	1299	684	684		2	1760	1760	173	173	
-														

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WOLFF 6017 CC*plus* a. series Static data 3 / 47

### 3.2.5.3 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 80	Corner distance 8,0 m x 8,0 m	jib 40 m
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height ho		Center ballasts	position		Crane in e mome Corne	ent: <b>240</b>		– Horizontal force	position		ue mon	of serv nent: 0		- Horizontal force
[m]	[m]	Ce [±]	đị	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	di	A [kN]	B [kN]	C [kN]	D [kN]	운 [kN]
79,6	80,3	140	1	616	940	616	292	52	1	504	1357	504	0	172
7 3,0	00,0	140	2	845	845	387	387	52	2	1071	1071	111	111	11/2
81,8	82,5	145	1	642	972	642	312	54	1	529	1410	529	0	174
'-	, ,	-	2	875	875	409	409		2	1116	1116	118	118	
86,3	87,0	170	1	712	1067	713	358	56	1	588	1575	588	0	184
			2	963	963	462	462		2	1244	1244	131	131	
90,8	91,5	195	1	787	1166	787	407	59	1	649	1749	649	0	195
			2	1055	1055	518	518		2	1380	1380	143	143	
95,3	96,0	220	1	861	1267	861	454	61	1	701	1941	701	0	207
			2	1148	1148	573	573		2	1522	1522	149	149	
99,8	100,5	275	1	1010	1445	1010	574	64	1	831	2277	831	0	225
			2	1318	1318	702	702		2	1790	1790	180	180	

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### 3.2.5.4 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 80	Corner distance 8,0 m x 8,0 m	jib 45 m
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height ho	ok	Center ballasts	position		Crane in e mome			- Horizontal force	position			of serv nent: 0		Horizontal force
#J	<del> </del>	ente			Corne	r loads		orizo	od o		Corne	r loads		orizo
l			di	Α	В	С	D		а́Г	Α	В	С	D	l I
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
79,6	80,3	145	1	635	965	635	305	53	1	517	1408	517	0	173
			2	869	869	402	402		2	1108	1108	112	112	
81,8	82,5	150	1	661	998	661	325	54	1	543	1460	543	0	175
			2	899	899	423	423		2	1153	1153	120	120	
86,3	87,0	175	1	732	1093	732	370	56	1	600	1627	600	0	185
			2	987	987	476	476		2	1282	1282	131	131	
90,8	91,5	200	1	806	1193	806	419	59	1	660	1804	660	0	196
			2	1080	1080	532	532		2	1419	1419	143	143	
95,3	96,0	225	1	880	1294	880	466	61	1	710	1999	711	0	208
			2	1173	1173	587	587		2	1562	1562	148	148	
99,8	100,5	280	1	1029	1473	1029	585	64	1	837	2341	838	0	225
			2	1343	1343	715	715		2	1832	1832	176	176	

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### 3.2.5.5 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 80	Corner distance 8,0 m x 8,0 m	jib 50 m
KK 10 - 00	Comer distance 6,0 m x 6,0 m	ווו טכ טון

height ho		enter ballasts	Crane in service torque moment: 240 kNm  Corner loads					– Horizontal force	position	Cra torqi	Horizontal force			
[m]	[m]	ပီ [t]	ď	<b>A</b> [kN]	B [kN]	C [kN]	D [kN]	운 [kN]	di	A [kN]	B [kN]	C [kN]	D [kN]	운 [kN]
79,6	80,3	150	1	650	984	651	317	53	1	532	1439	532	0	174
			2	886	886	415	415		2	1135	1135	117	117	
81,8	82,5	150	1	664	1004	664	324	54	1	532	1492	533	0	176
			2	904	904	424	424		2	1167	1167	112	112	
86,3	87,0	175	1	734	1100	735	369	57	1	589	1660	589	0	186
			2	993	993	476	476		2	1297	1297	122	122	
90,8	91,5	205	1	821	1212	821	430	59	1	673	1838	673	0	196
			2	1097	1097	545	545		2	1446	1446	146	146	
95,3	96,0	230	1	895	1314	895	477	62	1	723	2035	723	0	209
			2	1191	1191	599	599		2	1590	1590	151	151	
99,8	100,5	285	1	1044	1492	1044	596	64	1	848	2382	848	0	226
			2	1361	1361	727	727		2	1861	1861	177	177	

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### 3.2.5.6 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





(R 16 - 8	30	Corne	r distar	jib	55 m			
	<b>'</b> 0	_		е			Ф	

height ho		Center ballasts	position						position		rice kNm	- Horizontal force		
[m]	[m]	(t)	ď	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	곳 Horizontal force	di	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	ゴ [kN]
79,6	80,3	150	1	658	987	658	329	53	1	526	1481	526	0	175
			2	891	891	426	426		2	1157	1157	109	109	
81,8	82,5	155	1	684	1019	684	349	54	1	552	1533	553	0	177
			2	921	921	447	447		2	1201	1201	117	117	
86,3	87,0	180	1	755	1116	755	394	57	1	608	1704	608	0	186
			2	1010	1010	500	500		2	1332	1332	127	127	
90,8	91,5	205	1	829	1216	829	442	59	1	666	1885	666	0	197
			2	1102	1102	555	555		2	1470	1470	137	137	
95,3	96,0	235	1	915	1330	915	501	62	1	739	2084	739	0	209
			2	1209	1209	622	622		2	1627	1627	154	154	
99,8	100,5	290	1	1064	1509	1065	620	64	1	860	2438	860	0	227
			2	1379	1379	750	750		2	1902	1902	177	177	
L					<u> </u>		<u> </u>	<u> </u>		L	L		l	

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### 3.2.5.7 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 80	Corner distance 8,0 m x 8,0 m	jib 60 m
KR 16 - 80	Corner distance 8,0 m x 8,0 m	jib 60 m

ho	under ok	Center ballasts	jib position		Crane ir e mome	ent: <b>240</b>		- Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
%	3	)ei	d q				_	<u>0</u>	d di	۱ .			_	ori:
[m]	[m]	[t]	ij	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	==	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
79,6	80,3	160	1	689	1021	689	358	53	1	562	1543	562	0	175
			2	924	924	455	455		2	1213	1213	121	121	
81,8	82,5	160	1	703	1040	703	365	54	1	564	1594	564	0	177
			2	941	941	464	464		2	1244	1244	117	117	
86,3	87,0	185	1	773	1136	773	410	56	1	618	1768	618	0	187
			2	1030	1030	516	516		2	1376	1376	125	125	
90,8	91,5	215	1	860	1249	860	470	59	1	699	1951	699	0	197
			2	1135	1135	584	584		2	1527	1527	147	147	
95,3	96,0	245	1	946	1364	946	529	62	1	771	2153	771	0	210
			2	1242	1242	651	651		2	1685	1685	162	162	
99,8	100,5	300	1	1095	1543	1095	648	64	1	889	2514	889	0	228
			2	1412	1412	779	779		2	1962	1962	184	184	

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### 3.2.6.1 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

## Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 100	Corner distance 10,0 m x 10,0 m	jib 30 m
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ho	under ok	Center ballasts	position		Crane ir e mome Corne	ent: <b>240</b>		– Horizontal force	position		ue mon	of serv nent: 0 r loads		Horizontal force
%	3	Seri	d qii	١.			_	łoriż	d qi	١.			_	호
[m]	[m]	[t]	:=.	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	=	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
79,6	80,3	90	1	483	740	483	225	52	1	391	1050	391	0	171
			2	665	665	301	301		2	829	829	86	86	
81,8	82,5	90	1	496	759	496	233	54	1	396	1093	396	0	173
			2	682	682	310	310		2	858	858	84	84	
86,3	87,0	110	1	554	836	554	272	56	1	448	1221	448	0	183
			2	753	753	355	355		2	961	961	97	97	
90,8	91,5	130	1	616	917	616	314	58	1	502	1358	502	0	194
			2	829	829	402	402		2	1071	1071	110	110	
95,3	96,0	150	1	677	1000	677	355	61	1	550	1509	550	0	206
			2	905	905	449	449		2	1186	1186	119	119	
99,8	100,5	190	1	789	1134	789	444	64	1	644	1768	644	0	223
			2	1033	1033	545	545		2	1389	1389	139	139	

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# 3.2.6.2 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





height ho	under ok	Center ballasts	position		Crane in e mome Corne	ent: <b>240</b>		– Horizontal force	position		ue mon	of serv nent: 0		- Horizontal force
١ ،	°	Č	qi	Α	В	С	D	ᆞ훋	ā	Α	В	C	ı D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
79,6	80,3	90	1	490	749	490	231	52	1	397	1067	397	0	172
			2	673	673	307	307		2	843	843	88	88	
81,8	82,5	90	1	504	768	504	240	54	1	403	1110	403	0	174
			2	691	691	317	317		2	871	871	86	86	
86,3	87,0	110	1	562	845	562	278	56	1	454	1240	454	0	183
			2	762	762	361	361		2	975	975	98	98	
90,8	91,5	130	1	623	927	623	320	59	1	508	1378	508	0	194
			2	838	838	409	409		2	1086	1086	111	111	
95,3	96,0	150	1	685	1010	685	360	61	1	555	1531	555	0	206
			2	915	915	455	455		2	1201	1201	119	119	
99,8	100,5	190	1	797	1144	797	449	64	1	646	1794	646	0	224
			2	1042	1042	551	551		2	1406	1406	137	137	

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# 3.2.6.3 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 100 Corner distance 10,0 m x 10,0 m jib 40 m	KR 16 - 100	Corner distance 10,0 m x 10,0 m	jib 40 m
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height ho		Center ballasts	position		Crane ir e mome Corne	ent: <b>240</b>		- Horizontal force	position		ue mon	of serv nent: 0 r loads		Horizontal force
[m]	[m]	(t)	ď	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	王 [kN]	ď	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	ゴ [kN]
79,6	80,3	90	1	496	755	496	237	52	1	400	1085	400	0	172
			2	679	679	313	313		2	855	855	87	87	
81,8	82,5	95	1	522	786	522	258	54	1	430	1128	430	0	174
			2	709	709	335	335		2	896	896	98	98	
86,3	87,0	110	1	567	851	568	284	56	1	455	1260	456	0	184
			2	768	768	367	367		2	988	988	97	97	
90,8	91,5	130	1	629	933	629	325	59	1	509	1399	509	0	195
			2	844	844	414	414		2	1099	1099	109	109	
95,3	96,0	155	1	703	1028	703	378	61	1	580	1553	580	0	207
			2	933	933	473	473		2	1227	1227	129	129	
99,8	100,5	195	1	815	1163	815	466	64	1	669	1821	669	0	225
			2	1061	1061	568	568		2	1434	1434	146	146	
	1		l		1		l	1	l					

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# 3.2.6.4 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 100	Corner distance 10,0 m x 10,0 m	jib 45 m

height ho	under ok	Center ballasts	position		Crane in e mome Corne	ent: <b>240</b>		– Horizontal force	position		ue mon	of serv nent: 0		- Horizontal force
[m]	[m]	ပီ [t]	유	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]	di	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]
79,6	80,3	95	1	515	779	515	251	53	1	418	1126	418	0	173
			2	702	702	329	329		2	889	889	92	92	
81,8	82,5	95	1	529	798	529	259	54	1	424	1168	424	0	175
			2	719	719	338	338		2	917	917	91	91	
86,3	87,0	115	1	587	876	587	297	56	1	473	1302	473	0	185
			2	791	791	382	382		2	1022	1022	101	101	
90,8	91,5	135	1	648	958	648	339	59	1	525	1443	525	0	196
			2	867	867	429	429		2	1134	1134	113	113	
95,3	96,0	155	1	710	1041	710	378	61	1	570	1599	571	0	208
			2	944	944	476	476		2	1250	1250	119	119	
99,8	100,5	200	1	834	1189	834	479	64	1	682	1873	682	0	225
			2	1085	1085	583	583		2	1471	1471	147	147	

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# 3.2.6.5 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 1	00		Corner distance 10,0 m x 10,0 n	jib 50 m			
eight under hook	ballasts	ion	Crane in service torque moment: 240 kNm	ion	Crane out of service torque moment: 0 kNm	al force	
##   F	Center b	jib position	Corner loads	jib position	Corner loads	Horizont	

ho	hook Selection when the content ballax		position	torqu	e mome		kNm	- Horizontal fol	osition	torque moment: 0 kNm  Corner loads  QI				
7	2	ent	od di	_	Corne			oriz	ğ					- Horizontal fo
[m]	[m]	[t]	=	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	==	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
79,6	80,3	95	1	518	785	518	251	53	1	411	1151	411	0	174
			2	707	707	329	329		2	900	900	86	86	
81,8	82,5	100	1	544	816	544	272	54	1	442	1193	442	0	176
			2	736	736	352	352		2	941	941	97	97	
86,3	87,0	120	1	602	894	602	310	57	1	490	1328	490	0	186
			2	809	809	395	395		2	1047	1047	107	107	
90,8	91,5	140	1	664	976	664	351	59	1	542	1471	542	0	196
			2	885	885	442	442		2	1159	1159	119	119	
95,3	96,0	160	1	725	1060	725	390	62	1	587	1628	587	0	209
			2	962	962	488	488		2	1276	1276	125	125	
99,8	100,5	205	1	849	1208	849	491	64	1	696	1905	696	0	226
			2	1103	1103	596	596		2	1498	1498	150	150	
		l								l				

962-4-027646E-4 962-4-027646E-5

WOLFF 6017	CCplus a. series	Static data
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# 3.2.6.6 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 100	Corner distance 10,0 m x 10,0 m	jib 55 m
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height ho	under ok	Center ballasts	position		Crane ir e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	පී [t]	ď	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	di	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	운 [kN]
79,6	80,3	100	1	538	801	538	275	53	1	434	1185	435	0	175
10,0	00,0	100	2	724	724	352	352		2	932	932	94	94	''
81,8	82,5	100	1	552	820	552	284	54	1	441	1226	441	0	177
'	- /-		2	741	741	362	362		2	960	960	93	93	
86,3	87,0	120	1	610	898	610	321	57	1	488	1363	488	0	186
'			2	814	814	406	406		2	1067	1067	103	103	
90,8	91,5	140	1	671	981	671	362	59	1	539	1508	539	0	197
			2	890	890	453	453		2	1180	1180	113	113	
95,3	96,0	165	1	745	1077	745	414	62	1	608	1667	608	0	209
			2	980	980	511	511		2	1310	1310	131	131	
99,8	100,5	205	1	857	1213	857	501	64	1	689	1951	689	0	227
			2	1108	1108	606	606		2	1522	1522	142	142	
		l	l	L			l	l		L			L	

WOLFF 6017 CC*plus* a. series Static data 3 / 61

# 3.2.6.7 Centralballasts and Cornerloads according to DIN 15019

for a standing tower crane on a cross frame without climbing gear

#### Attention!

for the **WOLFF 6017.6** only the section is valid for height under hook.





KR 16 - 100			Corner distance 10,0 m x 10,0 m	jib 60 m	jib 60 m			

height ho	under ok	Center ballasts	position		Crane ir e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	[t]	di	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	ď	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	. 훈   [kN]
79,6	80,3	105	1	557	822	557	292	53	1	451	1235	452	0	175
,	'		2	744	744	369	369		2	971	971	98	98	
81,8	82,5	105	1	570	840	570	300	54	1	458	1275	458	0	177
			2	761	761	379	379		2	999	999	97	97	
86,3	87,0	125	1	628	919	628	338	56	1	504	1414	505	0	187
			2	834	834	423	423		2	1106	1106	106	106	
90,8	91,5	145	1	690	1001	690	378	59	1	554	1561	554	0	197
			2	910	910	470	470		2	1219	1219	115	115	
95,3	96,0	170	1	764	1098	764	430	62	1	622	1723	622	0	210
			2	1000	1000	528	528		2	1351	1351	132	132	
99,8	100,5	215	1	888	1246	888	530	64	1	725	2011	726	0	228
			2	1141	1141	635	635		2	1577	1577	154	154	

962-4-027646E-6 962-4-027646E-7

#### 3.3.1.1 Center ballasts and corner loads DIN 15019

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





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KRE	≣ 260.	1		Corn	er dista	ance 5	m x 6,7	79 m				Jib ler	ngth 3	0 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	王 Ceni	dib p	A [kN]	Corner <b>B</b> [kN]	loads C [kN]	D [kN]	[kN] Horiz	dib p	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[kN]
14,3	15,0	32,5	1	259	368	168	60	24	_1	185	275	108	18	51
18,8	19,5	32,5	1	338 267	338 383	90 170	90 54	26	<u>2</u> 1	250 191	250 287	43 111	43 15	65
23,3	24,0	32,5	2	351 275	351 399	86 171	86 47	27	2	260 198	260 300	42 113	42 11	69
			2	365	365	81	81		2	272	272	40	40	
27,8	28,5	32,5	2	284 380	417 380	171 75	38 75	29	1 2	206 289	314 289	115 116	7 116	76
32,3	33,0	37,5	1 2	305 409	448 409	184 80	41 80	30	<u>1</u> 2	264 341	371 341	175 98	68 98	83
36,8	37,5	47,5	1 2	339 451	494 451	209 97	54 97	32	1 2	308 409	448 409	190 89	50 89	89
41,3	42,0	60,0	1 2	380 501	547	239	73 119	34	1 2	360 487	536 487	210 82	33 82	96
				501	501	119	119			467	467	82	82	
														-

WOLFF 6017.10 CC*plus* and series Static data 3 / 66

#### 3.3.1.2 Center ballasts and corner loads DIN 15019





KRE	260.	1		Corn	er dista	ance 5	m x 6,7	'9 m			,	Jib ler	ngth 3	5 m
	under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		— Horizontal force
رج ا ا		_	dil p	A	Corne	С	D	Horiz	d dib	A	В	r loads	D	Horiz
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
14,3	15,0	30,0	1	260	367	170	63	24	_1_	178	269	102	12	51
			2	338	338	93	93		2	244	244	37	37	
18,8	19,5	30,0	1	268	382	172	57	26	_1_	185	281	104	9	65
			2	351	351	89	89		2	254	254	35	35	
23,3	24,0	30,0	_1_	276	399	173	50	28	_1_	192	294	106	5	70
			2	365	365	84	84		2	266	266	33	33	
27,8	28,5	30,0	1	285	417	173	41	29	1	238	317	170	91	77
			2	380	380	78	78		2	295	295	113	113	
32,3	33,0	35,0	1	306	448	186	44	31	_1_	268	378	174	64	83
			2	409	409	83	83		2	348	348	94	94	
36,8	37,5	45,0	1	340	494	211	57	32	1	312	456	189	45	90
			2	451	451	100	100		2	416	416	85	85	
41,3	42,0	57,5	1	381	548	241	75	34	1	363	545	210	27	96
			2	502	502	121	121		2	495	495	78	78	
														<u> </u>

CCplus and series

Static data

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#### 3.3.1.3 Center ballasts and corner loads DIN 15019

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





KRE	≣ 260.	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 4	0 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	ပီ [t]	g	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	ij	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
14,3	15,0	27,5	1	259	363	171	66	25	1	185	266	117	36	52
18,8	19,5	27,5	1 2	267	348     348     91       275     395     173       362     362     86			26	1 2	244 192 256	244 280 256	58 119 55	58 31 55	66
23,3	24,0	27,5	1 2	275 362	395	173	91 53 86	28	1 2	200	295 268	120 52	25 52	71
27,8	28,5	27,5	1	283 377	413 377	174 80	44 80	29	1 2	239	323 300	168 107	84	77
32,3	33,0	32,5	1 2	305 406	445 406	186 85	46 85	31	1 2	269 352	384 352	172 88	56 88	84
36,8	37,5	42,5	1 2	339 449	491 449	211 101	59 101	32	<u>1</u> 2	313 422	463 422	187 78	37 78	91
41,3	42,0	55,0	1 2	380 499	544 499	241 123	77 123	34	1 2	365 501	553 501	207 71	19 71	97
								-						
								-						

WOLFF 6017.10 CCplus and series

Static data 3 / 68

3.3.1.4 Center ballasts and corner loads DIN 15019





KRE	<b>260.</b>	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 4	5 m
	under ook	Center ballasts	Jib position		Crane in			곳 Z Horizontal force	Jib position			of serv		— Horizontal force
	Ş	ente	p po		Corne			orizo	od qi			r loads		orizo
[m]	[m]	(t)	⋾	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	<u>ゴ</u>  [kN]	¬	A [kN]	<b>B</b> [kN]	<b>C</b> [kN]	<b>D</b> [kN]	Ĭ  [kN]
14,3	15,0	25,0	1	259	366	169	62	25	1	188	296	100	0	52
,	,	,	2	336	336	92	92		2	265	265	27	27	
18,8	19,5	25,0	1	267	381	170	56	26	1	191	315	97	0	67
			2	349	349	88	88		2	278	278	24	24	
23,3	24,0	25,0	1	275	398	171	48	28	_1_	192	336	93	0	72
			2	364	364	82	82		2	291	291	20	20	
27,8	28,5	25,0	1	284	416	172	39	29	_1_	193	360	87	0	78
			2	379	379	76	76		2	316	316	89	89	
32,3	33,0	25,0	1	293	435	172	29	31	1_	263	394	152	21	85
			2	396	396	68	68		2	357	357	57	57	
36,8	37,5	37,5	1	333	488	203	48	32	1	313	479	173	7	91
			2	445	445	91	91		2	433	433	53	53	
41,3	42,0	55,0	1	387	554	246	78	34	1	378	583	205	0	98
			2	508	508	124	124		2	526	526	57	57	

CCplus and series

Static data

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#### 3.3.1.5 Center ballasts and corner loads DIN 15019

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





KRE	E 260.	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	gth 5	0 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position			of serv nent: 0		Horizontal force
[m]	[m]	ē [t]	g	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	ą	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
14,3	15,0	25,0	1	262	62 370 171 6 40 340 93 9			25	1 2	179	327	82	0	53
18,8	19,5	25,0	1 2	270 353			93 57 89	27	1 2	278 181 291	278 346 291	15 78 12	15 0 12	67
23,3	24,0	27,5	1 2	284 374	409 374	180 90	56 90	28	1 2	195 310	367 310	86 14	0	72
27,8	28,5	27,5	1 2	293	427 390	180 84	47 84	30	1 2	196 336	391 336	80 87	0 87	79
32,3	33,0	32,5	1 2	315 419	459 419	193 88	48	31	1 2	288 390	429 390	169 68	29 68	85
36,8	37,5	40,0	1 2	343 456	499 456	211 98	55 98	33	1 2	326 454	503 454	178 50	1 50	92
41,3	42,0	60,0	1 2	403 525	572 525	260 138	91 138	34	1 2	397 553	613 553	216 60	1 60	99
								-						

WOLFF 6017.10 CC*plus* and series Static data 3 / 70

#### 3.3.1.6 Center ballasts and corner loads DIN 15019





KRI	E 260.	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	gth 5	55 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	ა [t]	ail	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	운 [kN]	ąi	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	운 [kN]
14,3	15,0	35,0	1 2	292 365	393 365	207 134	106 134	25	1 2	205 335	403 335	85 11	0 11	53
18,8	19,5	37,5	1 2	306 385	415 385	214 135	105 135	27	1 2	220 354	423 354	94	0	68
23,3	24,0	40,0	1 2	321 406	439 406	221	104 136	28	1 2	233	445 374	101	0	73
27,8	28,5	42,5	1 2	336 428	463 428	228 136	101 136	30	1 2	246 394	469 394	107 17	0 17	80
32,3	33,0	45,0	1 2	351 451	489 451	234 135	96 135	31	1 2	259 441	496 441	112 94	0 94	86
36,8	37,5	47,5	1	367 475	517 475	240 132	90 132	33	1 2	358 494	546 494	199 63	11 63	93
41,3	42,0	62,5	1 2	414 532	578 532	277 159	114 159	34	1 2	414 581	647 581	221 60	0 60	99

WOLFF 6017.10 CCplus and series

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#### 3.3.1.7 Center ballasts and corner loads DIN 15019

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





Static data

KRE	E 260.	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 6	60 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		 Horizontal force
[m]	[m]	王 Cent	Jib po	<b>A</b> [kN]	Corner B [kN]	loads C [kN]	<b>D</b> [kN]	[kN]	Jib po	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[KN]
14,3	15,0	35,0	1	299	401	212	110	25	1	218	426	91	0	53
18,8	19,5	37,5	1	373	373 423	138 220	138	26	1	355 232	355 446	100	12	69
23,3	24,0	40,0	1	392 327	392 446	140 227	140 108	28	1	374 246	374 468	15 107	15 0	73
27,8	28,5	42,5	1	413 342	413 471	141 234	141 105	29	1	394 259	394 492	17 113	17 0	80
32,3	33,0	45,0	1	435 357	435 497	141 240	141 101	31	1	424 349	424 521	106 203	106 31	87
36,8	37,5	50,0	1	458 379	458 531	139 252	139 101	32	1	473 377	473 594	79 201	79 0	93
			2	489	489	143	143		2	532	532	54	54	
								•						

WOLFF 6017.10 CC*plus* and series Static data 3 / 75

#### 3.3.2.1 Center ballasts and corner loads DIN 15019





KRE	<b>260</b> .	1		Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	gth 3	80 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mom	of serv		– Horizontal force
[m]	[m]	ق [t]	dib	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	dib	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
14,3	15,0	20,0	1	183	329	183	36	24	1	109	244	109	0	51
18,8	19,5	20,0	1 2	286 187 297	286 343 297	79 187 77	79 31 77	26	1 2	201 111 211	201 258 211	29 111 29	29 0 29	65
23,3	24,0	20,0	1 2	192 310	359 310	192 73	24 73	27	1 2	112	274	112 28	0 28	69
27,8	28,5	20,0	1	196 323	376 323	196 69	17 69	29	1 2	112 243	291 243	112 99	0 99	76
32,3	33,0	22,5	2	207 344	400 344	207 70	14 70	30	1	182 283	326 283	182 80	38 80	83
36,8	37,5	32,5	1 2	237 384	445 384	237 89	28 89	32	1 2	212 345	401 345	212 78	23 78	89
41,3	42,0	42,5	1 2	266 425	491 425	266 107	41 107	34	1	241 410	480 410	241 72	2 72	96
45,8	46,5	52,5	2	296 468	539 468	296 124	52 124	35	1 2	248 478	587 478	248 63	0 63	102
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														-

CCplus and series

Static data

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#### 3.3.2.2 Center ballasts and corner loads DIN 15019

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





KRE	260.	1		Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	gth 3	5 m
	under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position			of serv		Horizontal force
🚜	ğ	ente	od c		Corner	loads		rizo	od q		Corne	r loads		orizo
[m]	[m]	(t)	≒	A [kN]	kN] [kN] [kN] [kN 184 328 184 4			운 [kN]	ij	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	ゴ [kN]
14,3	15,0	17,5	1	184	34 328 184 4			24	1	96	244	96	0	51
			2	286	86 286 82 8				2	195	195	23	23	
18,8	19,5	17,5	1	189	86         286         82         8           89         343         189         3			26	1	98	258	98	0	65
			2	298	89 343 189 3 98 298 79 7				2	205	205	22	22	
23,3	24,0	17,5	1	193	98 298 79 7			28	_1	99	274	99	0	70
			2	310	310	76	76		2	217	217	119	119	
27,8	28,5	17,5	1	198	376	198	20	29	_1	99	292	99	0	77
			2	324	324	72	72		2	249	249	97	97	
32,3	33,0	20,0	1	209	400	209	17	31	1	184	333	184	34	83
			2	344	344	73	73		2	289	289	78	78	
36,8	37,5	27,5	1	232	439	232	25	32	_1	207	402	207	12	90
			2	378	378	85	85		2	345	345	69	69	
41,3	42,0	37,5	_1	261	485	261	37	34	1	227	491	227	0	96
			2	420	420	103	103		2	410	410	63	63	
45,8	46,5	50,0	_1	297	540	297	54	35	1	243	602	243	0	103
			2	469	469	126	126		2	485	485	59	59	
								-						

WOLFF 6017.10 CC*plus* and series Static data 3 / 77

#### 3.3.2.3 Center ballasts and corner loads DIN 15019





KRI	E 260.	1		Corn	er dista	ance 6	m x 6 r	n			•	Jib ler	gth 4	10 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 l		 Horizontal force
[m]	[m]	(t)	dib	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	위 [kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	분 [kN]
14,3	15,0	15,0	1	183	324	183	42	25	1	83	245	83	0	52
18,8	19,5	15,0	1	283 188	283 339	188	37	26	1	197 85	197 259	85 85	0	66
23,3	24,0	15,0	1 2	295 193 307	295 355 307	81 193 78	81 30 78	28	2 1 2	208 86 221	208 275 221	86 114	41 0 114	71
27,8	28,5	15,0	1 2	197 321	372 321	197 73	22 73	29	1 2	86 252	294 252	86 92	0 92	77
32,3	33,0	17,5	1	208 342	397 342	208 74	19 74	31	1 2	183 293	339 293	183 73	27 73	84
36,8	37,5	27,5	1	237 382	442 382	237 93	33 93	32	1 2	212 355	415 355	212 69	10 69	91
41,3	42,0	37,5	2	267 424	489 424	267 110	45 110	34	1	231 421	506 421	231 63	0 63	97
45,8	46,5	50,0	2	303 473	543 473	303 133	62 133	35	1 2	246 496	618 496	246 59	0 59	104
														-

CCplus and series

Static data

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#### 3.3.2.4 Center ballasts and corner loads DIN 15019

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





KRE	<b>260</b> .	1		Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	ngth 4	5 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force
[m]	[m]	[t]	dib	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	diC	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
14,3	15,0	12,5	1	183	327	183	39	25	1	89	281	89	0	52
14,3	15,0	12,5	2	285	285	81	81	25	2	214	214	16	16	52
18,8	19,5	12,5	1	187	342	187	33	26	1	89	299	89	0	67
-,-	.,.	,-	2	296	296	78	78		2	225	225	14	14	
23,3	24,0	12,5	1	192	358	192	26	28	_1	89	319	89	0	72
			2	309	309	75	75		2	237	237	11	11	
27,8	28,5	12,5	1	196	375	196	18	29	1	87	341	87	0	78
			2	323	323	70	70		2	266	266	77	77	
32,3	33,0	15,0	1	207	400	207	14	31	_1_	96	365	96	0	85
			2	344	344	71	71		2	307	307	57	57	
36,8	37,5	20,0	1	224	433	224	16	32	11	174	449	174	0	91
			2	372	372	77	77		2	358	358	41	41	
41,3	42,0	37,5	_1_	273	499	273	46	34	1	219	553	219	0	98
			2	432	432	113	113		2	443	443	52	52	
45,8	46,5	55,0	1	321	566	321	76	35	1	258	667	258	0	105
			2	494	494	147	147		2	532	532	60	60	
								1	Ц			l	l	L

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#### 3.3.2.5 Center ballasts and corner loads DIN 15019





KRE	<b>260</b> .	1		Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	gth 5	60 m
	under ook	Center ballasts	Jib position		Crane in service rque moment: <b>240</b> kNm				position		ie mon	of serv nent: 0 l		Horizontal force
[m]	[m]	රී [t]	qip	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	곳 Horizontal force	gi	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,3	15,0	12,5	1 2	185 288	331 288	185	40 83	25	1 2	76 225	310 225	76 6	0	53
18,8	19,5	15,0	1 2	196 306	352 306	196 86	40 86	27	1 2	88 242	328 242	88	0	67
23,3	24,0	15,0	1 2	201	368 319	201 82	33 82	28	1 2	87 254	349 254	87 8	0	72
27,8	28,5	17,5	1 2	212	392 339	212 84	31 84	30	1 2	98	371 290	98 83	0 83	79
32,3	33,0	20,0	1 2	222 360	417 360	222 85	28 85	31	1 2	107 332	396 332	107 63	0 63	85
36,8	37,5	22,5	1	233 382	444 382	233 84	23 84	33	1 2	179 376	476 376	179 40	0 40	92
41,3	42,0	40,0	_12	282 443	510 443	282 120	53 120	34	1	223 462	581 462	223 51	0 51	99
45,8	46,5	57,5	2	330 505	578 505	330 155	82 155	36	1 2	262 551	696 551	262 59	0 59	105

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#### 3.3.2.6 Center ballasts and corner loads DIN 15019

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





KRE	<b>260</b> .	1		Corn	er dista	ance 6	m x 6 ı	n			•	Jib ler	ngth 5	5 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of servenent: 0		Horizontal force
[m]	[m]	G [±]	dil	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	위 [kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	훈 [kN]
14,3	15,0	25,0	1 2	225 321	361 321	225 128	88 128	25	_1_2	105 283	382 283	105 13	0 13	53
18,8	19,5	25,0	1 2	229 333	376 333	229 125	82 125	27	1 2	105 295	401 295	105 11	0	68
23,3	24,0	27,5	1 2	240 352	399 352	240 128	81 128	28	1 2	116 313	422	116 14	0	73
27,8	28,5	27,5	1 2	244 366	416 366	244 123	72 123	30	1 2	114 333	445	114 106	0 106	80
32,3	33,0	30,0	1 2	255 387	442 387	255 123	69 123	31	1 2	123 375	470 375	123 85	0 85	86
36,8	37,5	32,5	1 2	266 409	468 409	266 123	64 123	33	1 2	228 420	507 420	228 62	0 62	93
41,3	42,0	42,5	1 2	296 451	516 451	296 140	75 140	34	1 2	234 488	614 488	234 53	0 53	99
				.0.					_	.00	100	- 00		

#### 3.3.2.7 Center ballasts and corner loads DIN 15019





KRE	E 260.	1		Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	gth 6	0 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		곳 Z Horizontal force
[m]	, Y [m]	(±) Cen	d dil	<b>A</b> [kN]	Corner B [kN]	loads C [kN]	<b>D</b> [kN]	[kN]	Jibp	A [kN]	Corne B [kN]	r loads   <b>C</b> [kN]	<b>D</b> [kN]	[kN]
14,3	15,0	22,5	1 2	224 322	362 322	224 126	86 126	25	1 2	103 295	404 295	103 10	0 10	53
18,8	19,5	25,0	1 2	235 340	384 340	235 130	86 130	26	1 2	115 313	423 313	115 14	0 14	69
23,3	24,0	25,0	1 2	240 353	400 353	240 126	79 126	28	12	114 325	444 325	114 11	0 11	73
27,8	28,5	27,5	1	250 373	424 373	250 128	77 128	29	1 2	124 360	467 360	124 95	0 95	80
32,3	33,0	30,0	1 2	261 394	449 394	261 128	73 128	31	1 2	132 403	493 403	132 74	0 74	87
36,8	37,5	32,5	1 2	272 416	476 416	272 128	68 128	32	1 2	217 449	564 449	217 50	0 50	93
41,3	42,0	47,5	1 2	314 471	536 471	314 157	92 157	34	1 2	246 529	673 529	246 53	0 53	100

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#### 3.3.3.1 Center ballasts and corner loads DIN 15019

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





KRE	E 260.	2		Corn	er dista	nce 5	m x 6,7	79 m			•	Jib ler	ngth 3	80 m
ho	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
₩	분	ent	od q		Corner	loads		orizo	d diV		Corne	r loads		oriz
[m]	[m]	(t)	⋾	A [kN]	<b>B</b> [kN]	<b>C</b> [kN]	D [kN]	王 [kN]	<u></u>	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	Ĭ [kN]
14,3	15,0	30,0	1	260	368	168	60	24	1	185	275	109	18	50
,	,	,	2	338	338	90	90		2	250	250	43	43	
18,8	19,5	30,0	1	267	383	170	54	26	1	191	287	111	16	64
			2	351	351	86	86		2	260	260	42	42	
23,3	24,0	30,0	1	275	399	171	47	27	1	199	300	113	12	69
			2	365	365	81	81		2	272	272	40	40	
27,8	28,5	30,0	1	284	417	171	38	29	1	206	314	115	7	76
			2	380	380	75	75		2	289	289	116	116	
32,3	33,0	35,0	1	305	448	184	41	30	1	265	371	175	69	82
			2	409	409	81	81		2	341	341	98	98	
36,8	37,5	45,0	1	339	494	209	55	32	1	308	448	190	50	89
			2	451	451	97	97		2	410	410	89	89	
41,3	42,0	57,5	1	380	547	240	73	33	1	360	537	210	33	95
			2	501	501	119	119		2	488	488	82	82	
45,8	46,5	72,5	1	428	608	276	96	35	1	419	636	235	18	102
			2	558	558	146	146		2	576	576	78	78	
50,3	51,0	90,0	1	483	678	318	123	36	1	486	747	265	4	109
			2	624	624	177	177		2	675	675	76	76	
54,8	55,5	115,0	1	557	768	378	167	38	1	573	882	312	3	115
			2	710	710	225	225		2	797	797	88	88	
														.
														.

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#### 3.3.3.2 Center ballasts and corner loads DIN 15019





KRI	E 260.	2		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 3	5 m
	t under ook	Center ballasts	Jib position		Crane ir e mome	ent: <b>240</b>		— Horizontal force	position		ue mon	of serv		 Horizontal force
د [m]	[m]	王 Cen	Jib p	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	dib	<b>A</b> [kN]	Come B [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,3	15,0	27,5	1	261	367	170	64	24	1	179	269	102	12	51
1 1,0	10,0	27,0	2	338	338	93	93		2	244	244	37	37	"
18,8	19,5	27,5	1	268	383	172	58	26	1	185	281	105	9	65
, -	,.		2	351	351	89	89		2	255	255	35	35	
23,3	24,0	27,5	1	276	399	173	50	27	1	192	294	107	5	70
,	,	'	2	365	365	84	84		2	266	266	33	33	
27,8	28,5	27,5	1	285	417	173	42	29	1	238	317	171	91	76
,	,	'	2	380	380	78	78		2	295	295	113	113	
32,3	33,0	32,5	1	306	448	186	44	30	1	268	378	175	64	83
			2	409	409	83	83		2	348	348	95	95	
36,8	37,5	42,5	1	341	494	211	57	32	1	312	456	190	45	89
			2	452	452	100	100		2	416	416	85	85	
41,3	42,0	55,0	1	382	548	241	75	33	1	363	545	210	28	96
			2	502	502	121	121		2	495	495	78	78	
45,8	46,5	70,0	1	430	609	278	98	35	1	423	646	235	12	102
			2	559	559	148	148		2	584	584	73	73	
50,3	51,0	90,0	1	490	685	326	131	36	1	496	764	270	3	109
			2	631	631	185	185		2	689	689	77	77	
54,8	55,5	115,0	1	565	776	386	174	38	1	584	900	317	0	116
			2	718	718	233	233		2	812	812	88	88	
														<del>                                     </del>
								1						1

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#### 3.3.3.3 Center ballasts and corner loads DIN 15019

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





KRE	260.	2		Corn	er dista	ance 5	m x 6,7	79 m				Jib ler	ngth 4	0 m
	t under ook	Center ballasts	Jib position		Crane ir e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
٤	Ş		od dil	Α	Corner <b>B</b>	loads C [kN]	D		q dib	Α	В	r loads   <b>C</b>	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]	
14,3	15,0	25,0	1	259	363	171	66	24	1	185	266	117	36	51
			2	334	334	95	95		2	244	244	59	59	
18,8	19,5	25,0	1	267	379	172	60	26	_1	193	280	119	31	65
			2	348	348	91	91		2	256	256	56	56	
23,3	24,0	25,0	1	275	395	173	53	27	_1_	200	295	120	26	70
			2	362	362	86	86		2	269	269	52	52	
27,8	28,5	25,0	1	283	413	174	44	29	_1	239	323	168	84	77
			2	377	377	80	80		2	300	300	107	107	
32,3	33,0	30,0	1	305	445	186	46	30	1	269	385	172	57	83
			2	406	406	85	85		2	353	353	89	89	
36,8	37,5	40,0	1	339	491	211	60	32	1	313	463	187	37	90
		i i	2	449	449	102	102		2	422	422	79	79	
41,3	42,0	52,5	1	380	544	242	77	34	1	365	553	207	19	97
		i i	2	499	499	123	123		2	501	501	71	71	
45,8	46,5	67,5	1	428	606	278	100	35	1	425	654	231	2	103
		i i	2	557	557	149	149		2	590	590	66	66	•
50,3	51,0	92,5	1	502	695	338	145	37	1	511	785	279	5	110
		i i	2	642	642	198	198		2	709	709	81	81	
54,8	55,5	117,5	1	576	787	398	188	38	1	599	923	325	2	116
		i i	2	728	728	246	246		2	833	833	91	91	
														1
								1						1

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#### 3.3.3.4 Center ballasts and corner loads DIN 15019





KRE	<b>260</b> .:	2		Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	ngth 4	5 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position			of serv		Horizontal force
[m]	[m]	ပီ [t]	dib	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	dil	A [kN]	B [kN]	C [kN]	D [kN]	운 [kN]
14,3	15,0	22,5	1 2	259 336	366 336	169	63	25	1 2	189	296 266	101	0 27	52
18,8	19,5	22,5	1 2	267 350	381 350	170 88	56 88	26	1 2	191 278	315 278	98 24	0 24	66
23,3	24,0	22,5	1 2	275 364	398 364	171	49 83	28	1 2	193 291	336 291	93	0 20	71
27,8	28,5	22,5	1 2	284 379	416 379	172 76	40 76	29	1 2	194 317	359 317	87 89	0 89	78
32,3	33,0	22,5	1 2	293 396	436 396	172 69	29 69	31	1 2	263 358	394 358	152 57	21 57	84
36,8	37,5	35,0	1 2	333 445	488 445	203 91	48 91	32	1 2	313 434	480 434	173 53	7 53	91
41,3	42,0	52,5	1 2	387 508	555 508	246 125	78 125	34	1 2	378 526	583 526	205 57	0 57	97
45,8	46,5	75,0	1 2	454 585	636 585	301 169	119 169	35	1 2	457 635	703 635	248 70	1 70	104
50,3	51,0	97,5	1 2	521 664	719 664	355 212	157 212	37	1 2	533 749	834 749	286 77	0 77	111

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#### 3.3.3.5 Center ballasts and corner loads DIN 15019

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





KRE	E 260.	2		Corn	er dista	ance 5	m x 6,7	79 m			•	Jib ler	ngth 5	0 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	王 Cent	od dib	<b>A</b> [kN]	Corner <b>B</b> [kN]	loads C [kN]	<b>D</b> [kN]	[kN]	dib p	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[kN]
14,3	15,0	22,5	1	262	370	171	64	25	1	179	327	82	0	52
			2	340	70 386 173 57				2	278	278	15	15	
18,8	19,5	22,5	1	270	54 354 89 89			26	1	181	346	79	0	67
			2	354		89		2	291	291	12	12		
23,3	24,0	25,0	1	285	409	56	28	_1_	195	367	86	0	72	
			2	374	374	90	90		2	310	310	14	14	
27,8	28,5	25,0	1	293	427	180	47	29	_1_	196	391	80	0	78
			2	390	390	84	84		2	336	336	88	88	
32,3	33,0	27,5	1	309	809 453 187 42				_1_	282	423	163	23	85
			2	413	413	82	82		2	384	384	62	62	
36,8	37,5	37,5	1	343	499	211	55	32	_1_	327	503	178	2	92
			2	456	456	98	98		2	454	454	51	51	
41,3	42,0	57,5	_1	403	572	260	91	34	1	398	613	216	1	98
			2	525	525	138	138		2	553	553	60	60	
45,8	46,5	80,0	_1	470	654	315	132	35	1	476	734	259	1	105
			2	603	603	182	182		2	663	663	72	72	
50,3	51,0	102,5	_1_	538	737	369	170	37	1	552	867	295	0	111
			2	682	682	225	225		2	777	777	79	79	
								1						

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#### 3.3.3.6 Center ballasts and corner loads DIN 15019





KRE	<b>260</b> .	2		Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	gth 5	5 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 l		Horizontal force
[m]	[m]	පී [t]	dib	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	dib	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
14,3	15,0	32,5	1	292	394	207	106	25	_1	205	403	86	0	53
18,8	19,5	35,0	1 2	366 307 385	366 415 385	134 215 136	134 106 136	26	1 2	336 220 354	336 422 354	95 14	11 0 14	68
23,3	24,0	37,5	1 2	321 406	439 406	222	104 137	28	1 2	234	444 374	102	0	73
27,8	28,5	40,0	1	336 428	463 428	228 136	101 136	29	1 2	247 395	469 395	108 17	0 17	79
32,3	33,0	42,5	2	351 451	489 451	235 135	97 135	31	1 2	259 442	495 442	112 94	0 94	86
36,8	37,5	45,0	1 2	367 475	517 475	240 132	90 132	32	1 2	358 494	546 494	199 64	12 64	92
41,3	42,0	60,0	1 2	415 533	578 533	277 159	114 159	34	1	414 581	647 581	222 60	0 60	99
45,8	46,5	82,5	2	482 610	659 610	332 203	154 203	36	1 2	492 692	771 692	263 71	0 71	106
50,3	51,0	107,5	2	555 695	749 695	392 252	198 252	37	1 2	578 814	907 814	309 83	0 83	112

CCplus and series

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#### 3.3.3.7 Center ballasts and corner loads DIN 15019

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





KRE	260.	2		Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	gth 6	0 m
	under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	三 Cent	Jib po	<b>A</b> [kN]	Corner <b>B</b> [kN]	loads C [kN]	<b>D</b> [kN]	[kN]	dib p	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	D [kN]	[kN]
14,3	15,0	32,5	1	299	401	212	110	25	1	218	426	92	0	53
14,5	10,0	52,5	2	373	373	138	138	20	2	355	355	12	12	
18,8	19,5	35,0	1	313	423	220	110	26	1	233	446	100	0	68
, .	,.	00,0	2	393	393	140		2	374	374	15	15		
23,3	24,0	37,5	1	327	446	108	28	1	247	468	108	0	73	
	,	,	2	413	413	141	141		2	394	394	17	17	
27,8	28,5	40,0	1	342	471	234	105	29	1	260	492	113	0	80
	,	,	2	435	435	141	141		2	425	425	107	107	
32,3	33,0	42,5	1	358	497	240	101	31	1	349	521	204	32	86
			2	458	458	139	139		2	473	473	79	79	
36,8	37,5	47,5	1	380	531	252	101	32	1	378	594	202	0	93
			2	489	489	143	143		2	533	533	54	54	
41,3	42,0	67,5	1	440	604	301	137	34	1	447	709	236	0	99
			2	558	558	182	182		2	633	633	62	62	
45,8	46,5	90,0	1	507	686	356	177	35	1	524	836	276	0	106
			2	636	636	226	226		2	745	745	72	72	
50,3	51,0	115,0	_1	581	776	416	221	37	1	609	975	320	0	112
			2	722	722	275	275		2	868	868	83	83	

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#### 3.3.4.1 Center ballasts and corner loads DIN 15019





KRE	E 260.	2		Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	gth 3	0 m
ho H	under ook	Center ballasts	Jib position		Crane in e mome Corner	ent: <b>240</b>		— Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
ک [m]	[m]	[±]	dil	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	dib	<b>A</b> [kN]	<b>B</b>   [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,3	15,0	17,5	1 2	183 286	329 286	183 79	37 79	24	1 2	109 201	243 201	109 29	0 29	50
18,8	19,5	17,5	1 2	187 298	343 298	187 77	31 77	26	1 2	111	258 211	111 29	0 29	64
23,3	24,0	17,5	1 2	192 310	359 310	192 74	25 74	27	1 2	112	273	112 28	0 28	69
27,8	28,5	17,5	1 2	196 323	376 323	196 69	17	29	1 2	113	291	113 99	0	76
32,3	33,0	20,0	1 2	207 344	400 344	207	14 71	30	1 2	182	326 284	182 81	39 81	82
36,8	37,5	30,0	1 2	237	445 384	237	28	32	1 2	212	401	212 78	23	89
41,3	42,0	40,0	1 2	266 425	491 425	266 107	41	33	1 2	241 410	480 410	241 72	3 72	95
45,8	46,5	50,0	1 2	296 468	539 468	296 124	53 124	35	1 2	249 478	586 478	249	0 64	102
50,3	51,0	65,0	1 2	338 524	601 524	338 152	75 152	36	1 2	273 562	705 562	273	0 64	109
54,8	55,5	85,0	1 2	392 594	678 594	392 191	107 191	38	1 2	318 663	835 663	318 72	0 72	115
59,3	60,0	105,0	1 2	455 670	759 670	455	150	41	1 2	373 773	972 773	373 86	0 86	126
				070	010	200	200			770	770	- 00		

CCplus and series

Static data

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#### 3.3.4.2 Center ballasts and corner loads DIN 15019

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





KRE	E 260.	2		Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	ngth 3	55 m
	t under ook	Center ballasts	lib position		Crane in			Horizontal force	position			of serv		Horizontal force
À	₹	ente	öd		Corner	loads		rizor	00 0		Corne	r loads		rizo
[m]	[m]	Ŭ [t]	ij	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]	ą	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	운 [kN]
14,3	15,0	15,0	1	184	328	184	40	24	1	96	244	96	0	51
,	,	,	2	286	286	82	82		2	195	195	23	23	
18,8	19,5	15,0	1	189	343	189	35	26	1	98	258	98	0	65
			2	298	298	80	80		2	205	205	22	22	
23,3	24,0	15,0	1	193	359	193	28	27	1	99	274	99	0	70
			2	310	310	76	76		2	218	218	119	119	
27,8	28,5	15,0	1	198	376	198	20	29	1	100	292	100	0	76
			2	324	324	72	72		2	249	249	97	97	
32,3	33,0	17,5	1	209	401	209	17	30	1	184	333	184	35	83
			2	344	344	73	73		2	289	289	78	78	
36,8	37,5	25,0	1	232	439	232	25	32	1	207	402	207	12	89
			2	379	379	86	86		2	345	345	69	69	
41,3	42,0	35,0	1	262	486	262	38	33	1	228	491	228	0	96
			2	420	420	103	103		2	410	410	63	63	
45,8	46,5	47,5	1	297	540	297	55	35	1	244	601	244	0	102
			2	469	469	126	126		2	485	485	60	60	
50,3	51,0	65,0	1	346	609	346	83	36	1	280	722	280	0	109
			2	532	532	160	160		2	576	576	65	65	
54,8	55,5	85,0	1	400	686	400	114	38	1	324	854	324	0	116
			2	602	602	198	198		2	677	677	73	73	
59,3	60,0	105,0	1	462	767	462	157	41	1	379	992	379	0	126
			2	678	678	247	247		2	788	788	87	87	

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#### 3.3.4.3 Center ballasts and corner loads DIN 15019





KRE	<b>260</b> .	2		Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	gth 4	0 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mom	of serv		Horizontal force
[m]	[m]	ලි [t]	dil	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	dil	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
<u> </u>						<u> </u>				-	- 1			
14,3	15,0	12,5	1	184	325	184	43	24	_1	84	245	84	0	51
			2	283	283	84	84		2	197	197	43	43	
18,8	19,5	12,5	1	188	339	188	37	26	1	85	259	85	0	65
			2	295	295	81	81		2	208	208	41	41	
23,3	24,0	12,5	1	193	355	193	30	27	1	86	275	86	0	70
			2	308	308	78	78		2	221	221	115	115	
27,8	28,5	12,5	1	197	372	197	22	29	_1	86	293	86	0	77
			2	321	321	73	73		2	252	252	92	92	
32,3	33,0	15,0	1	208	397	208	19	30	_1_	183	339	183	28	83
			2	342	342	74	74		2	293	293	73	73	
36,8	37,5	25,0	1	238	442	238	33	32	1	213	415	213	11	90
<u> </u>			2	382	382	93	93		2	356	356	70	70	
41,3	42,0	35,0	_1_	267	489	267	46	34	1	231	506	231	0	97
			2	424	424	111	111		2	421	421	63	63	400
45,8	46,5	47,5	1	303	543	303	63	35	1	247	618	247	0	103
L			2	473	473	133	133		2	497	497	60	60	
50,3	51,0	65,0	_1_	351	612	351	90	37	_1	282	740	282	0	110
			2	536	536	167	167		2	588	588	65	65	
54,8	55,5	87,5	1	412	696	412	128	38	1	337	874	337	0	116
		40=0	2	613	613	211	211		2	696	696	78	78	
59,3	60,0	105,0	1	468	771	468	165	41	1	379	1013	379	0	127
-			2	683	683	253	253		2	801	801	85	85	
-														

CCplus and series

Static data

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#### 3.3.4.4 Center ballasts and corner loads DIN 15019

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





KRE	E 260.	2		Corn	er dista	ance 6	m x 6 ı	m			,	Jib ler	ngth 4	5 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	[t]	dil	<b>A</b> [kN]	B [kN]	C [kN]	D [kN]	[kN]	ą	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
14,3	15,0	10,0	1	183	327	183	39	25	1	90	281	90	0	52
			2	285	285	81	81		2	215	215	16	16	
18,8	19,5	10,0	1	187	342	187	33	26	1	90	299	90	0	66
			2	297	297	78	78		2	225	225	14	14	
23,3	24,0	10,0	1	192	358	192	26	28	1	89	319	89	0	71
			2	309	309	75	75		2	237	237	11	11	
27,8	28,5	10,0	1	197	375	197	18	29	1	87	341	87	0	78
			2	323	323	70	70		2	266	266	77	77	
32,3	33,0	12,5	1	207	400	207	15	31	1	97	365	97	0	84
			2	344	344	71	71		2	308	308	57	57	
36,8	37,5	17,5	1	224	433	224	16	32	_1	175	449	175	0	91
			2	372	372	77	77		2	358	358	41	41	
41,3	42,0	35,0	_1	273	499	273	47	34	1	219	552	219	0	97
			2	433	433	113	113		2	443	443	52	52	
45,8	46,5	52,5	_1	321	566	321	76	35	1	259	666	259	0	104
			2	494	494	148	148		2	532	532	60	60	
50,3	51,0	70,0	_1	369	636	369	103	37	1	293	791	293	0	111
			2	558	558	181	181		2	624	624	65	65	
54,8	55,5	92,5	_1	430	720	430	140	38	1	346	928	346	0	117
			2	635	635	225	225		2	733	733	77	77	
59,3	60,0	112,5	1	492	802	492	183	41	1	400	1068	400	0	128
			2	711	711	274	274		2	845	845	90	90	

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#### 3.3.4.5 Center ballasts and corner loads DIN 15019





KRE	E 260.	2		Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	ngth 5	0 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		 Horizontal force
[m]	[m]	王 Cent	Jib p	A [kN]	Corner  B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[V] Horiz	qiqin	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[kN]
	<u> </u>		1	<u> </u>				25	1	<del>-</del> -	310			
14,3	15,0	10,0	2	186 288	331 288	186 83	40 83	25	2	76 225	225	76 6	6	52
18,8	19,5	12,5	1	196	352	196	41	26	1	89	328	89	0	67
10,0	13,3	12,5	2	307	307	86	86	20	2	243	243	10	10	0,
23,3	24.0	12.5	1	201	368	201	34	28	1	88	349	88	0	72
20,0	24,0	12,5	2	319	319	83	83		2	254	254	8	8	' -
27,8	28,5	15,0	1	212	392	212	31	29	1	98	371	98	0	78
21,0	20,5	10,0	2	339	339	84	84	. 23	2	290	290	83	83	10
32,3	33,0	17,5	1	223	417	223	28	31	1	107	396	107	0	85
02,0	00,0	,	2	360	360	85	85	0.	2	332	332	63	63	
36,8	37,5	20,0	1	233	444	233	23	32	1	179	475	179	0	92
,-	,-	_==,=	2	382	382	84	84		2	376	376	40	40	
41,3	42,0	37,5	1	282	510	282	54	34	1	223	581	223	0	98
,-	,-	, , ,	2	443	443	120	120		2	462	462	51	51	
45,8	46,5	55,0	1	330	578	330	82	35	1	262	696	262	0	105
,	,	,	2	505	505	155	155		2	551	551	59	59	
50,3	51,0	75,0	1	385	654	385	115	37	1	308	822	308	0	111
	,	,	2	575	575	194	194		2	650	650	69	69	
54,8	55,5	97,5	1	445	738	445	152	38	1	360	961	360	0	118
			2	653	653	238	238		2	760	760	81	81	
59,3	60,0	115,0	1	501	814	501	189	41	1	401	1102	401	0	128
			2	722	722	280	280		2	866	866	87	87	
														<del>                                     </del>
														1

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Static data

#### 3.3.4.6 Center ballasts and corner loads DIN 15019

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





KRI	E 260.	2		Corn	er dista	ance 6	m x 6 r	n				Jib ler	ngth 5	55 m
h	t under ook	Center ballasts	Jib position		Crane ir	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
ÁA	8	Cente	Jib pc	A	Corner <b>B</b>	r loads	ı D	- Horizo	Jib po	Α	Corne B	r loads I <b>C</b>	ı D	– Horizc
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
14,3	15,0	22,5	1	225	361	225	88	25	1	106	382	106	0	53
			2	321	321	128	128		2	284	284	13	13	
18,8	19,5	22,5	1	229	376	229	82	26	1	106	401	106	0	68
			2	333	333	125	125		2	295	295	11	11	
23,3	24,0	25,0	1	240	399	240	81	28	1	117	422	117	0	73
			2	352	352	128	128		2	313	313	15	15	
27,8	28,5	25,0	1	245	417	245	73	29	1	114	445	114	0	79
			2	366	366	123	123		2	333	333	106	106	
32,3	33,0	27,5	1	255	442	255	69	31	1	123	470	123	0	86
			2	387	387	124	124		2	375	375	86	86	
36,8	37,5	30,0	1	266	469	266	64	32	1	229	507	229	0	92
			2	409	409	123	123		2	420	420	62	62	
41,3	42,0	40,0	1	296	516	296	76	34	1	235	614	235	0	99
		i i	2	451	451	140	140		2	488	488	54	54	
45,8	46,5	57,5	1	344	584	344	104	36	1	272	732	272	0	106
		i i	2	514	514	175	175		2	578	578	60	60	
50,3	51,0	77,5	1	399	660	399	137	37	1	317	861	317	0	112
		i i	2	583	583	214	214		2	678	678	69	69	
54,8	55,5	100,0	1	459	745	459	174	39	1	368	1002	368	0	119
		i i	2	661	661	257	257		2	789	789	80	80	
								1						1

#### 3.3.4.7 Center ballasts and corner loads DIN 15019





KRE	E 260.	2		Corn	er dista	nce 6	m x 6 r	n			,	Jib ler	ngth 6	60 m
ho	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
5	ا د	Ge	dil p	A	Comer B	C C	D	- oriz	di	A	Come B	C C	D	- ori:
[m]	[m]	[t]	,	[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
14,3	15,0	20,0	1	224	363	224	86	25	1	103	404	103	0	53
			2	322	322	127	127		2	296	296	10	10	
18,8	19,5	22,5	1	235	384	235	87	26	1	115	423	115	0	68
			2	340	340	130	130		2	313	313	14	14	
23,3	24,0	22,5	_1_	240	400	240	79	28	1	114	444	114	0	73
			2	353	353	126	126		2	325	325	11	11	
27,8	28,5	25,0	1	251	424	251	77	29	1	124	467	124	0	80
			2	373	373	128	128		2	361	361	96	96	
32,3	33,0	27,5	1	261	449	261	74	31	_1	133	493	133	0	86
			2	394	394	129	129		2	403	403	75	75	
36,8	37,5	30,0	1	272	476	272	68	32	_1	217	564	217	0	93
			2	416	416	128	128		2	449	449	50	50	
41,3	42,0	45,0	_1	314	536	314	93	34	1	247	673	247	0	99
			2	471	471	157	157		2	530	530	54	54	
45,8	46,5	62,5	1	362	604	362	121	35	1	283	793	283	0	106
			2	533	533	192	192		2	620	620	60	60	
50,3	51,0	82,5	_1_	417	680	417	154	37	1	327	925	327	0	112
			2	603	603	231	231		2	722	722	67	67	
54,8	55,5	105,0	_1_	478	765	478	190	38	1	375	1070	375	0	119
			2	681	681	275	275		2	834	834	77	77	

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#### 3.3.5.1 Center ballasts and corner loads DIN 15019

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





(RE	480			Corn	er dista	ance 8	m x 8 ı	m				Jib ler	ngth 3	0 m
hoc		Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position	_		of serv		Horizontal force
	å	ent	p bc		Corne			orizo	)d qir			r loads		orizo
m]	[m]	[t]	5	A [kN]	B [kN]	<b>C</b> [kN]	<b>D</b> [kN]	ェ [kN]	7	A [kN]	<b>B</b> [kN]	<b>C</b> [kN]	<b>D</b> [kN]	[kN]
1,3	15,0	0,0	1	175	285	175	65	26	1	107	199	107	15	54
.,0	.0,0	0,0	2	252	252	97	97		2	172	172	42	42	•
3,8	19,5	0,0	1	182	299	182	64	28	1	114	212	114	17	70
,,,,	. 0,0	0,0	2	265	265	98	98		2	183	183	45	45	
3,3	24.0	0.0	1	186	312	186	60	30	1	119	222	119	15	75
.,.	,-	-,-	2	275	275	97	97		2	198	198	125	125	
7,8	28,5	0,0	1	191	326	191	56	31	1	166	245	166	86	81
,	,-	-,-	2	286	286	95	95		2	222	222	110	110	
2,3	33,0	0,0	1	195	340	195	50	33	1	170	280	170	60	88
_,_	00,0	0,0	2	298	298	93	93		2	248	248	92	92	
6,8	37,5	0,0	1	200	356	200	44	34	1	175	319	175	31	94
,,,,,	0.,0	0,0	2	310	310	90	90		2	277	277	73	73	•
1,3	42,0	0,0	1	204	372	204	36	36	1	178	361	178	0	101
.,0	12,0	0,0	2	323	323	86	86	- 00	2	307	307	52	52	
5,8	46,5	7,5	1	228	409	228	47	37	1	185	442	185	0	108
,,,	10,0	,,,	2	356	356	100	100		2	359	359	47	47	100
0,3	51,0	20,0	1	264	459	264	68	39	1	212	529	212	0	114
,,,,,	0.,0	20,0	2	402	402	125	125	- 00	2	426	426	51	51	
1,8	55,5	32,5	1	299	511	299	88	40	1	237	624	237	0	121
.,-	,-	,-	2	449	449	150	150	1	2	495	495	54	54	
9,3	60,0	47,5	1	344	572	344	116	42	1	273	729	273	0	129
,	,-	,-	2	505	505	183	183		2	577	577	61	61	
3,8	64,5	65,0	1	395	641	395	149	44	1	318	842	318	0	137
,	,-	,-	2	569	569	221	221	1	2	667	667	72	72	
3,3	69.0	82,5	1	446	712	446	180	46	1	357	968	357	0	145
,	-,-	,-	2	634	634	257	257		2	763	763	78	78	1
2,8	73,5	102,5	1	504	789	504	218	48	1	407	1100	407	0	155
		,	2	706	706	302	302	1	2	867	867	90	90	
7,3	78,0	122,5	1	562	869	562	254	51	1	452	1243	452	0	164
1	,-	, ,	2	779	779	344	344	1	2	976	976	97	97	
7,3	18,0	122,5	_					51						_

#### 3.3.5.2 Center ballasts and corner loads DIN 15019





KRE	≣ 480			Corn	er dista	ance 8	m x 8 r	n			,	Jib ler	ngth 3	5 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force
Ş	¥	Sent	d qi	_	Corne		_	oriz	d qi			r loads		oriz
[m]	[m]	[t]	7	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	Ĭ [kN]	¬	A [kN]	<b>B</b> [kN]	<b>C</b> [kN]	<b>D</b> [kN]	[kN]
14,3	15,0	0,0	1	182	291	182	74	26	1	107	199	107	15	54
,		'	2	259	259	106	106		2	172	172	42	42	
18,8	19,5	0,0	1	189	306	189	73	28	1	114	212	114	17	70
-,-	-,-	.,-	2	272	272	107	107		2	188	188	141	141	
23,3	24,0	0,0	1	194	319	194	69	30	1	169	224	169	114	75
-,-	,-	-,-	2	282	282	106	106		2	208	208	130	130	
27,8	28,5	0,0	1	199	332	199	65	31	1	174	257	174	90	82
, -	-,-	-,-	2	293	293	104	104		2	232	232	115	115	
32,3	33,0	0,0	1	203	347	203	59	33	1	178	292	178	64	88
- ,-	,-	-,-	2	305	305	101	101		2	259	259	97	97	
36,8	37,5	0,0	1	208	363	208	53	34	1	183	331	183	34	95
,-	, ,	.,-	2	317	317	98	98		2	288	288	78	78	
41.3	42.0	0.0	1	212	379	212	45	36	1	187	373	187	1	102
,-	,-	-,-	2	330	330	94	94		2	319	319	56	56	
45,8	46,5	5,0	1	229	410	229	49	37	1	182	453	182	0	108
,		'	2	357	357	102	102		2	364	364	44	44	
50,3	51,0	17,5	1	265	460	265	70	39	1	209	541	209	0	115
		'	2	403	403	127	127		2	431	431	49	49	
54,8	55,5	32,5	1	307	518	307	96	40	1	245	638	245	0	121
	,	,	2	457	457	158	158		2	508	508	57	57	
59,3	60,0	47,5	1	352	580	352	123	42	1	282	743	282	0	129
			2	513	513	190	190		2	590	590	64	64	
63,8	64,5	65,0	1	402	649	402	156	44	1	326	858	326	0	137
		'	2	577	577	228	228		2	681	681	74	74	
68,3	69,0	82,5	1	453	720	453	186	46	1	364	986	364	0	146
,		'	2	642	642	265	265		2	777	777	80	80	
72,8	73,5	102,5	1	511	798	511	224	49	1	413	1120	413	0	155
,		'	2	714	714	308	308		2	882	882	90	90	
77,3	78,0	125,0	1	576	884	576	267	51	1	469	1264	469	0	165
			2	794	794	357	357		2	998	998	104	104	

CCplus and series

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#### 3.3.5.3 Center ballasts and corner loads DIN 15019

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





KRE	≣ 480			Corn	er dista	ance 8	m x 8 r	m			,	Jib ler	ngth 4	0 m
	t under	Center ballasts	position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	රී [t]	dib	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	dib	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
14,3	15.0	0,0	1	188	294	188	82	26	1	124	207	124	42	55
,-	,.	-,-	2	263	263	113	113		2	183	183	66	66	
18,8	19,5	0,0	1	195	309	195	81	28	1	131	221	131	42	71
-,-	-,-	-,-	2	276	276	114	114		2	196	196	144	144	
23,3	24,0	0,0	1	200	322	200	77	30	1	175	234	175	116	76
-,-	,-	-,-	2	286	286	113	113		2	216	216	133	133	
27,8	28,5	0,0	1	204	336	204	73	31	1	179	267	179	92	83
,	,		2	297	297	111	111		2	241	241	117	117	
32,3	33,0	0,0	1	209	350	209	67	33	1	184	303	184	65	89
			2	309	309	109	109		2	268	268	100	100	
36,8	37,5	0,0	1	213	366	213	60	34	1	188	342	188	35	96
	,	, í	2	321	321	105	105		2	297	297	80	80	
41,3	42,0	0,0	1	218	383	218	53	36	1	193	384	193	2	102
			2	335	335	101	101		2	328	328	58	58	
45,8	46,5	5,0	1	235	414	235	56	38	1	187	465	187	0	109
			2	361	361	108	108		2	374	374	46	46	
50,3	51,0	17,5	1	271	464	271	77	39	1	214	554	214	0	115
			2	408	408	134	134		2	442	442	50	50	
54,8	55,5	32,5	1	313	523	313	103	41	1	249	652	249	0	122
			2	461	461	164	164		2	518	518	57	57	
59,3	60,0	47,5	1	357	584	357	130	43	1	285	759	285	0	130
			2	518	518	197	197		2	601	601	64	64	
63,8	64,5	65,0	1	408	654	408	162	44	1	328	876	328	0	138
			2	582	582	234	234		2	693	693	73	73	
68,3	69,0	85,0	1	465	731	465	199	46	1	378	1005	378	0	147
			2	653	653	277	277		2	796	796	85	85	
72,8	73,5	105,0	1	523	810	523	237	49	1	426	1141	426	0	156
			2	726	726	321	321		2	901	901	95	95	
77,3	78,0	125,0	1	581	890	581	273	51	1	469	1287	469	0	165
			2	799	799	363	363		2	1011	1011	101	101	

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#### 3.3.5.4 Center ballasts and corner loads DIN 15019





KRE	E 480			Corn	er dista	ance 8	m x 8 ı	n			,	Jib ler	ngth 4	5 m
	under ook	Center ballasts	position		Crane in e mome	ent: <b>240</b>		— Horizontal force	position		ue mon	of serv nent: 0 l		– Horizontal force
[m]	[m]	[t]	qip	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	D [kN]	문   [kN]	ą	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	본 [kN]
14,3	15,0	0,0	1	194	302	194	85	27	1	126	232	126	20	56
,-	, .	-,-	2	270	270	117	117		2	201	201	51	51	
18,8	19,5	0,0	1	201	317	201	84	29	1	133	246	133	20	72
	, ·	,	2	283	283	118	118		2	213	213	53	53	
23,3	24,0	0,0	1	205	330	205	80	30	1	137	258	137	17	77
			2	293	293	117	117		2	233	233	128	128	
27,8	28,5	0,0	1	210	344	210	76	32	1	185	288	185	82	83
			2	305	305	115	115		2	258	258	112	112	
32,3	33,0	0,0	1	214	359	214	70	33	1	189	324	189	54	90
			2	316	316	112	112		2	285	285	94	94	
36,8	37,5	0,0	1	219	375	219	63	35	1	194	364	194	24	96
			2	329	329	109	109		2	314	314	74	74	
41,3	42,0	0,0	1	223	392	223	55	36	1	188	417	188	0	103
			2	342	342	104	104		2	346	346	51	51	
45,8	46,5	7,5	1	247	429	247	64	38	1	193	500	193	0	110
			2	375	375	118	118		2	399	399	45	45	
50,3	51,0	20,0	1	282	480	282	85	39	1	219	592	219	0	116
			2	422	422	143	143		2	467	467	48	48	
54,8	55,5	35,0	_1	325	539	325	110	41	1	253	691	253	0	123
			2	476	476	173	173		2	544	544	55	55	
59,3	60,0	52,5	1	375	607	375	144	43	1	301	800	301	0	131
			2	539	539	212	212		2	633	633	67	67	
63,8	64,5	70,0	_1_	426	677	426	176	45	1	343	919	343	0	139
			2	603	603	249	249		2	726	726	76	76	
68,3	69,0	90,0	_1_	483	755	483	212	47	1	391	1051	391	0	147
			2	675	675	291	291		2	830	830	87	87	
72,8	73,5	110,0	1	541	833	541	249	49	1	439	1188	439	0	157
			2	748	748	335	335		2	936	936	96	96	

# CCplus and series

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#### 3.3.5.5 Center ballasts and corner loads DIN 15019

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





KRE	₹ 480			Corn	er dista	ance 8	m x 8 r	n				Jib ler	ngth 5	0 m
ho	t under ook	Center ballasts	position		Crane in			Horizontal force	position			of serv		Horizontal force
Á	₹	ente	od c		Corner	r loads		rizor	od qir		Corne	r loads		orizo
[m]	[m]	(t)	dib	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	운 [kN]	<u> </u>	A [kN]	B [kN]	<b>C</b> [kN]	<b>D</b> [kN]	
14,3	15,0	0,0	1	196	306	196	87	27	1	126	243	126	10	56
,-		-,-	2	274	274	119	119		2	209	209	44	44	
18,8	19,5	0,0	1	203	321	203	86	29	1	133	257	133	9	73
			2	286	286	120	120		2	221	221	46	46	
23,3	24,0	0,0	1	208	334	208	82	30	1	138	269	138	6	77
			2	297	297	119	119		2	241	241	124	124	
27,8	28,5	0,0	1	212	348	212	77	32	1	187	300	187	75	84
			2	308	308	117	117		2	267	267	108	108	
32,3	33,0	0,0	1	217	363	217	71	33	1	192	336	192	48	91
			2	320	320	114	114		2	294	294	90	90	
36,8	37,5	0,0	1	222	379	222	64	35	1	197	376	197	17	97
			2	333	333	110	110		2	324	324	69	69	
41,3	42,0	0,0	1	226	396	226	56	36	1	184	437	184	0	104
			2	346	346	106	106		2	356	356	47	47	
45,8	46,5	10,0	1	256	440	256	72	38	1	200	522	200	0	110
			2	386	386	126	126		2	415	415	46	46	
50,3	51,0	22,5	1	291	491	291	92	39	1	226	615	226	0	117
			2	432	432	151	151		2	484	484	49	49	
54,8	55,5	37,5	1	334	550	334	117	41	1	259	715	259	0	124
			2	486	486	181	181		2	561	561	56	56	
59,3	60,0	55,0	1	384	618	384	151	43	1	306	826	306	0	132
			2	550	550	219	219		2	651	651	67	67	
63,8	64,5	72,5	1	435	688	435	182	45	1	348	946	348	0	139
			2	614	614	256	256		2	744	744	76	76	
68,3	69,0	92,5	1	492	766	492	218	47	1	395	1079	395	0	148
			2	686	686	298	298		2	849	849	86	86	
72,8	73,5	112,5	1	550	845	550	255	49	1	442	1217	442	0	157
			2	759	759	342	342		2	956	956	95	95	

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#### 3.3.5.6 Center ballasts and corner loads DIN 15019





KRE	≣ 480			Corn	er dista	nce 8	m x 8 r	n			,	Jib ler	ngth 5	55 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
ن ا	ا د	Sen	d qi					oriż	l e					Ori
[m]	[m]	[t]	7	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	主 [kN]	] ]	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
14,3	15,0	0,0	1	204	307	204	101	27	1	112	288	112	0	57
,	,	,	2	277	277	131	131		2	230	230	26	26	
18,8	19,5	0,0	1	211	322	211	100	29	1	119	302	119	0	73
			2	290	290	133	133		2	242	242	28	28	
23,3	24,0	0,0	1	216	335	216	96	30	1	120	318	120	0	78
			2	300	300	131	131		2	256	256	125	125	
27,8	28,5	0,0	1	220	349	220	91	32	1	121	335	121	0	85
			2	312	312	129	129		2	282	282	108	108	
32,3	33,0	0,0	1	225	364	225	85	33	1	200	355	200	44	91
			2	323	323	126	126		2	310	310	90	90	
36,8	37,5	0,0	1	229	380	229	78	35	1	204	396	204	13	98
			2	336	336	122	122		2	340	340	69	69	
41,3	42,0	0,0	1	234	398	234	70	37	1	187	462	187	0	105
			2	350	350	118	118		2	372	372	46	46	
45,8	46,5	10,0	1	263	441	263	85	38	1	203	548	203	0	111
			2	389	389	138	138		2	432	432	45	45	
50,3	51,0	25,0	1	305	499	305	112	40	1	240	642	240	0	118
			2	442	442	169	169		2	508	508	53	53	
54,8	55,5	40,0	1	348	558	348	137	41	1	272	745	272	0	124
			2	496	496	199	199		2	586	586	59	59	
59,3	60,0	57,5	1	398	627	398	170	43	1	318	857	318	0	132
			2	560	560	237	237		2	676	676	70	70	
63,8	64,5	75,0	1	449	697	449	201	45	1	359	980	359	0	140
			2	624	624	274	274		2	771	771	78	78	
68,3	69,0	95,0	1	506	775	506	237	47	1	405	1116	405	0	149
			2	697	697	316	316		2	876	876	87	87	
72,8	73,5	115,0	1	564	854	564	274	49	1	450	1256	450	0	158
			2	769	769	359	359		2	983	983	95	95	
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WOLFF 6017.10 CCplus and series

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# 3.3.5.7 Center ballasts and corner loads DIN 15019

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





KRE	E 480			Corn	er dista	nce 8	m x 8 r	n			,	Jib ler	ngth 6	60 m
ho	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		Horizontal force
Á	岁	eut	ρ		Corner			riz	ф		Corne	r loads		jż.
[m]	[m]	(t)	ii C	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]	iU	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	D [kN]	ゴ [kN]
14,3	15,0	0,0	1	210	314	210	106	27	1	124	304	124	0	57
			2	284	284	136	136		2	246	246	31	31	
18,8	19,5	0,0	1	217	329	217	105	29	1	131	319	131	0	74
			2	296	296	138	138		2	258	258	33	33	
23,3	24,0	0,0	1	222	342	222	101	30	1	133	334	133	0	79
			2	307	307	136	136		2	279	279	119	119	
27,8	28,5	0,0	1	226	356	226	96	32	1	133	351	133	0	85
			2	318	318	134	134		2	305	305	103	103	
32,3	33,0	0,0	1	231	371	231	90	33	1	208	384	208	32	92
			2	330	330	131	131		2	333	333	84	84	
36,8	37,5	0,0	1	235	387	235	83	35	1	213	425	213	0	98
			2	343	343	128	128		2	363	363	63	63	
41,3	42,0	0,0	1	240	405	240	75	36	1	182	505	182	0	105
			2	356	356	123	123		2	396	396	39	39	
45,8	46,5	12,5	1	276	455	276	97	38	1	210	593	210	0	112
			2	402	402	149	149		2	463	463	44	44	
50,3	51,0	27,5	1	318	512	318	123	39	1	246	689	246	0	118
			2	455	455	180	180		2	539	539	52	52	
54,8	55,5	45,0	1	366	578	366	154	41	1	290	794	290	0	125
			2	516	516	216	216		2	624	624	63	63	
59,3	60,0	60,0	1	411	640	411	181	43	1	322	909	322	0	133
			2	573	573	248	248		2	709	709	67	67	
63,8	64,5	80,0	1	468	717	468	218	45	1	374	1033	374	0	141
			2	644	644	291	291		2	810	810	80	80	
68,3	69,0	100,0	1	525	796	525	254	47	1	418	1173	418	0	149
			2	716	716	333	333		2	917	917	88	88	
72,8	73,5	120,0	1	583	875	583	291	49	1	463	1316	463	0	159
			2	789	789	376	376		2	1025	1025	95	95	

WOLFF 6017.10 CC*plus* and series Static data 3 / 115

#### 3.4.1.1 Center ballasts and corner loads DIN 15019





uw	260.1			Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	gth 3	80 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mom	of serv nent: 0 l		Horizontal force
[m]	[m]	පී [t]	dil	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	dib	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	32,5	1 2	268 346	377 346	175 97	66 97	24	1 2	193 258	283 258	116 50	25 50	50
19,3	20,0	32,5	1 2	275 360	392 360	177 93	60	26	1 2	199 269	295 269	118 49	22 49	64
23,8	24,5	32,5	1 2	283 374	408 374	178 88	53 88	27	1 2	206 280	309 280	120 46	18 46	71
28,3	29,0	32,5	1 2	292 389	426 389	179 82	44 82	29	1 2	245 304	327 304	176 117	94 117	77
32,8	33,5	40,0	1 2	319 424	464 424	198 93	53 93	30	1 2	281 363	394 363	186 104	73 104	84
37,3	38,0	50,0	1	354 466	509 466	222 110	67 110	32	1 2	325 431	472 431	201 95	54 95	91
41,8	42,5	62,5	1 2	395 516	563 516	253 131	85 131	33	1	376 509	560 509	221 88	37 88	97

#### 3.4.1.2 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.1			Corn	er dista	ance 5	m x 6,7	79 m				Jib ler	ngth 3	5 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	. Y [m]	∄ Ceni	d dib	A [kN]	Corner <b>B</b> [kN]	loads C [kN]	D [kN]	[kN] Horiz	dil	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[XX] Horiz
									_				· ·	
14,8	15,5	30,0	2	269	376	178	70	24	<u>1</u> 2	186	277	110 44	18	51
19,3	20.0	30,0	1	346 276	346 392	100 179	100 64	26	1	252 193	252 290	112	44 15	65
19,3	20,0	30,0	2	360	360	96	96	20	2	263	263	42	42	65
23,8	24,5	30,0	1	284	408	180	56	27	1	200	303	114	11	71
25,0	24,5	30,0	2	374	374	91	91		2	274	274	40	40	''
28,3	29,0	30,0	1	293	426	181	48	29	1	248	334	175	90	78
20,0	25,0	50,0	2	389	389	84	84	. 23	2	310	310	113	113	,,,
32,8	33,5	37,5	1	321	464	199	56	30	1	284	401	186	69	85
02,0	00,0	0.,0	2	424	424	96	96	00	2	369	369	101	101	
37,3	38.0	47,5	1	355	510	224	69	32	1	328	480	201	49	91
,-	,-	,-	2	467	467	112	112		2	438	438	91	91	
41,8	42,5	60,0	1	396	563	255	87	33	1	380	569	221	31	98
,-	,-	,-	2	517	517	134	134		2	517	517	84	84	
				1	1	I	1	1	1	1	ı			1

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#### 3.4.1.3 Center ballasts and corner loads DIN 15019





UW	260.1			Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	gth 4	0 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 l		Horizontal force
[m]	[m]	පී [t]	dib	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	gi	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
14,8	15,5	27,5	1 2	267 343	372 343	178	73	24	1 2	193 252	275 252	124 65	43	51
19,3	20,0	27,5	1 2	275 356	343 388 356	179 98	66	26	1 2	201 264	289 264	126 62	38 62	65
23,8	24,5	27,5	1 2	283 371	404 371	180	59 93	27	1 2	208	304 277	127 58	32 58	72
28,3	29,0	27,5	1 2	291	422 386	181 86	50 86	29	1 2	249 314	339 314	173 108	83 108	79
32,8	33,5	35,0	1 2	319 421	460 421	200 98	58 98	30	1 2	286 374	408 374	183 95	61 95	85
37,3	38,0	45,0	1 2	353 464	506 464	224 114	72 114	32	1 2	330 443	487 443	198 85	41 85	92
41,8	42,5	57,5	1 2	395 514	560 514	255 135	89 135	34	1 2	382 523	577 523	218 77	23 77	98

#### 3.4.1.4 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.1			Corn	er dista	ance 5	m x 6,7	79 m				Jib ler	gth 4	5 m
	under	Center ballasts	sition		Crane in			Horizontal force	position			of serv		지 Horizontal force
[m]	[m]	⊒ Cente	Jib position	<b>A</b> [kN]	Corner <b>B</b> [kN]	loads C [kN]	D [kN]	[kN] Horizo	od dib	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b> [kN]	<b>D</b> [kN]	Ny] Horizo
14,8	15,5	25,0	1	267	375	176	69	25	1	195	306	107	8	52
14,0	13,3	23,0	2	345	345	99	99	23	2	274	274	34	34	32
19,3	20,0	25,0	1	275	390	178	62	26	1	198	325	103	8	66
10,0	20,0	20,0	2	358	358	94	94	20	2	286	286	31	31	00
23,8	24,5	25,0	1	283	407	179	55	28	1	199	347	99	8	73
_0,0	2 .,0	20,0	2	373	373	89	89		2	300	300	27	27	'`
28,3	29,0	25,0	1	292	425	179	46	29	1	200	370	93	8	79
,-	,-	,-	2	388	388	83	83		2	331	331	90	90	
32,8	33,5	27,5	1	307	451	185	41	31	1	279	417	163	25	86
- ,-	, .	,-	2	411	411	81	81		2	379	379	64	64	
37,3	38.0	40,0	1	348	504	216	60	32	1	330	503	184	11	93
- ,-	,-	-,-	2	460	460	103	103		2	455	455	59	59	
41,8	42,5	60,0	1	408	577	265	96	34	1	401	613	222	10	99
,			2	530	530	143	143		2	554	554	69	69	

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#### 3.4.1.5 Center ballasts and corner loads DIN 15019





uw	260.1			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 5	60 m
	under ook	Center ballasts	position		Crane in emome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	č [t]	dil	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	ąi	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]
14,8	15,5	25,0	1 2	270 349	379 349	179 100	70 100	25	1 2	186 287	337 287	88 22	8 22	52
19,3	20,0	25,0	1	278 362	395 362	180 96	64 96	26	1 2	188 299	356 299	84 19	8	67
23,8	24,5	27,5	1 2	293 383	418 383	187 97	62 97	28	1 2	202	378 319	92 21	8 21	74
28,3	29,0	30,0	1 2	308 405	442 405	194 96	59 96	29	1 2	215 357	402 357	98 94	8 94	80
32,8	33,5	32,5	1 2	323 428	468 428	200 95	54 95	31	1 2	299 405	446 405	174 68	27 68	87
37,3	38,0	45,0	1 2	364 477	521 477	231 117	73 117	32	1 2	349 482	532 482	195 63	12 63	93
									_	.02	.02			

#### 3.4.1.6 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.1			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 5	55 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		 Horizontal force	position		ue mon	of serv nent: 0		 Horizontal force
[m]	[m]	∄ Cer	diL	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 (kN)	dib	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	37,5	1 2	307 380	409 380	220 147	118 147	25	1 2	224 350	413 350	104 24	8 24	53
19,3	20,0	37,5	1 2	314 394	424 394	222	112 142	26	1 2	226 363	433	100	8 21	68
23,8	24,5	40,0	1 2	329 415	448 415	229	110	28	1 2	240	455 383	107	8 23	74
28,3	29,0	42,5	1 2	344 437	472 437	235	107 142	29	1 2	253 408	479 408	113 121	8 121	81
32,8	33,5	45,0	1 2	359 460	499 460	242	102	31	1 2	265 457	506 457	117 94	8	88
37,3	38,0	47,5	1	375 485	526 485	247 138	96 138	33	1 2	368 509	563 509	204	9	94
			_	100	100	100	100		_	000	000	- 00	- 00	

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#### 3.4.1.7 Center ballasts and corner loads DIN 15019





UW	260.1			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	gth 6	60 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mom	of serv nent: 0		Horizontal force
[m]	[m]	රී [t]	dil	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	diC	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	35,0	1 2	307	410	220	116 145	25	1 2	225	436 364	97	8	53
19,3	20,0	37,5	1 2	321 401	432	227 147	116 147	26	1 2	239	456 383	106	8 22	68
23,8	24,5	40,0	1 2	335 422	455 422	234	114	28	1 2	253 402	478 402	113	8 24	75
28,3	29,0	42,5	1 2	350 444	480	241	111	29	1 2	266 439	503 439	119 107	8	81
32,8	33,5	45,0	1 2	366 467	506 467	247 146	107 146	31	1 2	359 489	538 489	208	30 79	88
37,3	38,0	52,5	1 2	394 504	546 504	265 155	113 155	32	1 2	391 554	622 554	208	8	95

#### 3.4.2.1 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.1			Corn	er dista	ance 6	m x 6 r	n				Jib ler	ngth 3	0 m
ho	under	Center ballasts	sition		Crane in			Horizontal force	position			of serv		 Horizontal force
ÅΠ	å	Cente	Jib position	Α	Corner B	r loads	. <b>D</b>	- Iorizo	od diC	Α	Corne B	r loads	D	- Horizo
[m]	[m]	[t]	Í	[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN
14,8	15,5	20,0	1	190	338	190	43	24	1	116	253	116	8	50
			2	294	294	86	86		2	210	210	36	36	
19,3	20,0	20,0	1	195	352	195	37	26	_1	118	267	118	8	64
			2	306	306	84	84		2	219	219	36	36	
23,8	24,5	20,0	1	199	368	199	31	27	1	119	283	119	8	71
			2	319	319	80	80		2	229	229	35	35	
28,3	29,0	20,0	1	204	385	204	23	29	1	119	301	119	8	77
			2	332	332	76	76	1	2	257	257	101	101	
32,8	33,5	25,0	1	221	416	221	26	30	1	196	348	196	44	84
,		, i	2	359	359	83	83		2	304	304	88	88	
37,3	38.0	35,0	1	251	461	251	40	32	1	226	424	226	28	91
,-	,-		2	399	399	102	102		2	366	366	86	86	
41,8	42,5	45,0	1	280	507	280	53	33	1	254	504	254	8	97
,0	,0	.0,0	2	440	440	120	120		2	431	431	80	80	
46,3	47,0	55,0	1	310	555	310	64	35	1	258	614	258	8	104
10,0	11,0	00,0	2	483	483	136	136		2	499	499	70	70	
				700	700	100	100			400	700	70	70	
								-						
														<u> </u>

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#### 3.4.2.2 Center ballasts and corner loads DIN 15019





UW	260.1			Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	ngth 3	35 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position			of serv		Horizontal force
[m]	[m]	ē [t]	ą	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	dil	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	년 [kN]
14,8	15,5	17,5	1 2	192	337	192	46	24	1 2	103	254	103	8	51
19,3	20,0	17,5	1 2	196 306	352 306	196 86	41 86	26	1 2	105 213	268 213	105 29	8 29	65
23,8	24,5	17,5	1 2	201 319	368 319	201 83	34 83	27	1 2	106 231	284	106 121	8	71
28,3	29,0	17,5	1	205 332	385 332	205 79	26 79	29	1 2	106 262	302 262	106 99	8 99	78
32,8	33,5	22,5	1	223 359	416 359	223 86	29 86	30	1 2	198 309	355 309	198 86	40 86	85
37,3	38,0	30,0	1	246 394	455 394	246 98	37 98	32	1 2	221 365	425 365	221 76	16 76	91
41,8	42,5	40,0	1 2	275 435	501 435	275 116	49 116	33	1	238 431	518 431	238 70	8 70	98
46,3	47,0	52,5	1 2	311 484	556 484	311 138	67 138	35	1 2	254 506	629 506	254 66	8 66	104
														-
														:

# 3.4.2.3 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





uw	260.1			Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	ngth 4	0 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	王 Cent	d dib	<b>A</b> [kN]	Corner B [kN]	loads C [kN]	D [kN]	[kN]	Jib p	A [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	zi. H [kN]
14,8	15,5	15,0	1	191	333	191	49	24	1	90	254	90	8	51
,	,	,	2	292	292	91	91		2	205	205	50	50	
19,3	20,0	15,0	1	196	348	196	43	26	1	92	269	92	8	65
			2	304	96 348 196 43 94 304 88 88				2	216	216	48	48	
23,8	24,5	15,0	1	200	364	200	36	27	1	93	285	93	8	72
			2	316	316	84	84		2	234	234	117	117	
28,3	29,0	15,0	1	205	381	205	28	29	1	93	304	93	8	79
			2	330	330	80	80		2	266	266	94	94	
32,8	33,5	20,0	1	222	413	222	31	30	1	197	361	197	33	85
			2	357	357	87	87		2	313	313	81	81	
37,3	38,0	27,5	1	245	451	245	39	32	1	220	432	220	9	92
			2	391	391	99	99		2	370	370	71	71	
41,8	42,5	40,0	1	281	504	281	58	34	1	241	533	241	8	98
			2	439	439	123	123		2	442	442	70	70	
46,3	47,0	52,5	1	317	559	317	74	35	1	257	646	257	8	105
			2	488	488	145	145		2	517	517	66	66	

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#### 3.4.2.4 Center ballasts and corner loads DIN 15019





UW	260.1			Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	ngth 4	5 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mom	of serv		Horizontal force
[m]	[m]	පී [t]	dil	A [kN]	B [kN]	C [kN]	D [kN]	년 [kN]	diC	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
14,8	15,5	12,5	1 2	190	336 293	190	45 88	25	1 2	96 223	291 223	96	8 23	52
19,3	20,0	12,5	1 2	195 305	351 305	195 85	39 85	26	1 2	96 234	309 234	96 21	8 21	66
23,8	24,5	12,5	1 2	200	367 318	200	32 81	28	1 2	95 247	329 247	95 102	8	73
28,3	29,0	15,0	1 2	210	391 338	210 83	30 83	29	1 2	106 286	352 286	106 85	8 85	79
32,8	33,5	15,0	1 2	215 352	409 352	215 77	20 77	31	1 2	186 321	379 321	186 59	8 59	86
37,3	38,0	25,0	1 2	244 393	455 393	244 96	34 96	32	1 2	198 385	475 385	198 54	8 54	93
41,8	42,5	40,0	1 2	287 448	514 448	287 125	59 125	34	1 2	229 464	580 464	229 59	8 59	99
46,3	47,0	57,5	2	335 510	582 510	335 160	88 160	35	1 2	269 553	695 553	269 67	8 67	106

#### 3.4.2.5 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.1			Corn	er dista	ance 6	m x 6 r	n				Jib ler	gth 5	0 m
	under	Center ballasts	Jib position		Crane in			Horizontal force	position			of serv		Horizontal force
[m]	[m]	크 Cente	Jib po	<b>A</b> [kN]	Corner <b>B</b> [kN]	loads C [kN]	<b>D</b> [kN]	[Xx] Horizo	Jib pc	<b>A</b> [kN]	Corne  B [kN]	r loads   <b>C</b>   [kN]	D [kN]	[k] Horizc
14,8	15.5	15,0	1	199	346	199	53	25	1	95	320	95	8	52
,0	10,0	10,0	2	303	303	96	96		2	240	240	19	19	02
19,3	20,0	15,0	1	204	361	204	47	26	1	95	338	95	8	67
. 0,0	20,0	. 0,0	2	315	315	93	93		2	251	251	17	17	
23,8	24,5	15,0	1	209	377	209	40	28	1	94	359	94	8	74
,-	,.	, .	2	328	328	89	89		2	265	265	102	102	
28,3	29,0	17,5	1	219	401	219	37	29	1	104	382	104	8	80
-,-	.,.	,-	2	348	348	91	91		2	304	304	85	85	
32,8	33,5	20,0	1	230	427	230	34	31	1	113	406	113	8	87
,	,		2	369	369	91	91		2	346	346	65	65	
37,3	38,0	27,5	1	253	466	253	41	32	1	202	502	202	8	93
			2	404	404	103	103		2	403	403	54	54	
41,8	42,5	42,5	1	296	526	296	65	34	1	233	608	233	8	100
			2	458	458	133	133		2	483	483	58	58	

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#### 3.4.2.6 Center ballasts and corner loads DIN 15019





UW	260.1			Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	gth 5	5 m
	under ook	Center ballasts	Jib position		Crane in e mome Corne	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv nent: 0 r loads		 Horizontal force
[m]	[m]	ඊ [t]	흥	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	론 [kN]	<b>当</b>	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	운 [kN]
14,8	15,5	25,0	1 2	232 330	370 330	232 135	94 135	25	1 2	112 292	392 292	112 20	8 20	53
19,3	20,0	25,0	1	237	385	237	88	26	1	112	411	112	8	68
23,8	24,5	27,5	1	342 248	342 408	132 248	132 87	28	1	303 123	303 432	18 123	18 8	74
28,3	29,0	27,5	1	361 252	361 426	134 252	134 79	29	1	321 120	321 455	21 120	21 8	81
32,8	33,5	30,0	1	375 263	375 451	130 263	130 75	31	1	347 129	347 481	108 129	108 8	88
37,3	38,0	32,5	1	396 274	396 478	130 274	130 70	33	1	389 227	389 533	87 227	87 8	94
41,8	42,5	45,0	1	418 310	418 532	129 310	129 88	34	1	435 244	435 642	63 244	63 8	101
			2	467	467	153	153		2	509	509	60	60	

# 3.4.2.7 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.1			Corn	er dista	nce 6	m x 6 r	n				Jib ler	ngth 6	0 m
	under ook	Center ballasts	ition		Crane in			Horizontal force	position			of serv		 Horizontal force
ÁA	5	-	Jib position	Α	Corner <b>B</b>	С	D		od qif	A	В	r loads	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN
14,8	15,5	22,5	1	232	371	232	93	25	1	109	414	109	8	53
			2	331	331	133	133		2	304	304	17	17	
19,3	20,0	25,0	1	243	393	243	93	26	_1	122	433	122	8	68
			2	349	349	137	137		2	321	321	21	21	
23,8	24,5	25,0	1	247	409	247	86	28	_1_	120	454	120	8	75
			2	362	362	133	133		2	334	334	115	115	
28,3	29,0	27,5	1	258	433	258	83	29	1	130	478	130	8	81
			2	382	382	134	134		2	374	374	97	97	
32,8	33,5	30,0	1	269	458	269	79	31	1	139	504	139	8	88
			2	403	403	135	135		2	417	417	76	76	
37,3	38,0	32,5	1	280	485	280	74	32	1	215	590	215	8	95
			2	425	425	134	134		2	463	463	51	51	
41,8	42,5	50,0	1	328	551	328	104	34	1	257	701	257	8	101
			2	486	486	170	170		2	550	550	61	61	
						l		1				I		1

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#### 3.4.3.1 Center ballasts and corner loads DIN 15019





uw	260.2			Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	gth 3	0 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 l		Horizontal force
[m]	[m]	ق [t]	qip	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	문 [kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
14,8	15,5	30,0	1 2	268 347	377 347	176 97	67 97	24	1 2	193 258	284 258	116 50	25 50	50
19,3	20,0	30,0	1 2	276 360	392 360	177 93	60	26	1 2	200	296 269	118 49	22 49	64
23,8	24,5	30,0	1 2	284 374	408 374	178 88	53 88	27	1 2	207	309 280	120 47	18 47	71
28,3	29,0	30,0	1 2	292 389	426 389	179 82	45 82	29	1 2	245 304	327 304	176 117	94 117	77
32,8	33,5	37,5	1 2	320 424	464 424	198 93	53 93	30	1 2	281 363	394 363	186 105	73 105	84
37,3	38,0	47,5	1 2	354 466	510 466	223 110	67 110	32	1 2	325 431	472 431	201 95	55 95	91
41,8	42,5	60,0	2	395 516	563 516	253 132	85 132	33	1	377 510	561 510	221 88	37 88	97
46,3	47,0	75,0	2	443 574	624 574	289 158	108 158	35	1 2	436 598	661 598	246 84	22 84	104

#### 3.4.3.2 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.2			Corn	er dista	ance 5	m x 6,7	79 m				Jib ler	ngth 3	5 m
	under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	王 Ceni	d dib	<b>A</b> [kN]	Corner B [kN]	loads C [kN]	D [kN]	[kN] Horiz	dil	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[kN]
			_						_				· ·	
14,8	15,5	27,5	2	269 347	376 347	178 100	70 100	24	<u>1</u> 2	187 252	278 252	110 44	19 44	51
19,3	20.0	27,5	1	276	392	179	64	26	1	193	290	112	16	65
19,3	20,0	21,5	2	360	360	96	96	20	2	263	263	42	42	03
23,8	24,5	27,5	1	285	408	180	56	27	1	200	303	114	12	71
20,0	24,0	21,0	2	374	374	91	91		2	275	275	40	40	' '
28,3	29,0	27,5	1	293	426	181	48	29	1	248	334	176	90	78
20,0	25,0	21,5	2	389	389	85	85	. 23	2	310	310	114	114	10
32,8	33,5	35,0	1	321	464	200	56	30	1	285	402	186	69	85
02,0	00,0	00,0	2	424	424	96	96	00	2	369	369	101	101	
37,3	38.0	45,0	1	355	510	224	70	32	1	329	480	201	49	91
0.,0	00,0	.0,0	2	467	467	113	113	02	2	438	438	91	91	
41,8	42,5	57,5	1	396	564	255	88	33	1	380	569	221	32	98
,0	,0	0.,0	2	517	517	134	134		2	517	517	84	84	
46,3	47,0	72,5	1	444	625	291	110	35	1	440	670	245	15	104
-,-	, ,	,-	2	575	575	160	160		2	606	606	79	79	

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#### 3.4.3.3 Center ballasts and corner loads DIN 15019





UW	260.2			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	gth 4	10 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position			of serv nent: 0		Horizontal force
[m]	[m]	රී [t]	dil	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	dil	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	25,0	1 2	267 343	372 343	178	73	24	1 2	193 252	275 252	124	43	51
19,3	20,0	25,0	1 2	275 357	388 357	180 98	67 98	26	1 2	201	289 265	126 62	38	65
23,8	24,5	25,0	1 2	283	404 371	181 93	59 93	27	1 2	208 277	304 277	128 59	32 59	72
28,3	29,0	25,0	1 2	292 386	422 386	181 86	50 86	29	1 2	249 315	339 315	173 108	83 108	79
32,8	33,5	32,5	1	319 421	461 421	200 98	59 98	30	1 2	286 374	408 374	183 95	61 95	85
37,3	38,0	42,5	1	354 464	507 464	225 114	72 114	32	1 2	330 443	487 443	198 85	41 85	92
41,8	42,5	55,0	1 2	395 515	560 515	255 135	89 135	34	1	382 523	577 523	218 77	23 77	98
46,3	47,0	72,5	1 2	449 579	629 579	297 168	118 168	35	2	448 619	685 619	248 77	12 77	105
														-

#### 3.4.3.4 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.2			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 4	5 m
	t under ook	Center ballasts	Jib position		Crane in emome	ent: <b>240</b>		 Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
ر [m]	ა [m]	⊒ Cen	dib p	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	dib	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
14,8	15,5	22,5	1 2	267 345	375 345	177 99	69 99	25	1 2	196 274	306 274	107 34	8 34	52
19,3	20,0	22,5	1 2	275 359	390 359	178 94	63 94	26	1 2	198	325 287	104	8	66
23,8	24,5	22,5	1 2	283 373	407 373	179 89	55 89	28	1 2	200	347	99 27	8 27	73
28,3	29,0	22,5	1 2	292 388	425 388	179 83	46 83	29	1 2	201	370 331	93 90	8	79
32,8	33,5	25,0	1 2	307 411	451 411	186 81	41 81	31	1 2	280	417	163 64	26 64	86
37,3	38,0	37,5	1 2	348 461	504 461	216	61	32	1 2	330 455	503 455	184 59	11 59	93
41,8	42,5	57,5	1 2	408 530	577 530	265 143	97 143	34	1 2	401 554	613 554	222 69	10 69	99
			_	000		110	110		_	001	001	00	- 00	

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#### 3.4.3.5 Center ballasts and corner loads DIN 15019





UW	260.2			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	gth 5	60 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	ق [t]	diP	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	문 [kN]	diU	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]
14,8	15,5	22,5	1 2	271 349	379 349	179 100	70 100	25	1 2	186 287	337 287	88 22	8 22	52
19,3	20,0	22,5	1 2	278 363	395 363	180 96	64 96	26	1 2	188	356 300	85 19	8	67
23,8	24,5	25,0	1 2	293 383	418 383	187 97	62 97	28	1 2	202	378 319	92 21	8 21	74
28,3	29,0	27,5	1 2	308 405	443 405	194 96	59 96	29	1 2	215 357	402 357	99 95	8 95	80
32,8	33,5	30,0	1 2	323 428	469 428	200 95	55 95	31	12	299 405	446 405	175 68	27 68	87
37,3	38,0	42,5	1 2	364 478	521 478	231 117	74 117	32	1 2	350 482	533 482	195 63	12 63	93
41,8	42,5	62,5	1 2	424 547	594 547	280 157	109 157	34	1	421 582	643 582	233 72	11 72	100

# 3.4.3.6 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.2			Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	ngth 5	5 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position			of serv		Horizontal force
د [m]	[m]	(t)	dib p	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	dil	A [kN]	Come B [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	32,5	1	301	403	214	112	25	1	212	413	92	8	53
			2	374	5 425 222 11				2	344	344	18	18	
19,3	20,0	35,0	1	315	94 394 142 14			26	_1_	227	433	101	8	68
			2	394	94 394 142 14				2	363	363	21	21	
23,8	24,5	37,5	_1_	329	448	229	110	28	_1_	241	455	108	8	74
			2	415	415	143	143		2	383	383	23	23	
28,3	29,0	40,0	1_	344	473	236	107	29	1	254	479	114	8	81
			2	437	437	143	143		2	408	408	121	121	
32,8	33,5	42,5	1_	359	499	242	103	31	1	266	506	118	8	88
			2	460	460	141	141		2	457	457	94	94	
37,3	38,0	45,0	1_	375	527	248	96	33	1	369	563	204	9	94
44.0	40.5	05.0	2	485	485	138	138	0.4	2	510	510	63	63	404
41,8	42,5	65,0	1_	435	600	297	132	34	1	439	676	241	8	101
			2	554	554	178	178		2	610	610	72	72	

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#### 3.4.3.7 Center ballasts and corner loads DIN 15019





UW	260.2			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 6	60 m
	under ook	Center ballasts	Jib position		Crane in emome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv nent: 0		— Horizontal force
[m]	[m]	Č [t]	qip	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	diD	A [kN]	B [kN]	C [kN]	D [kN]	[kN]
<del></del>					• •	<del></del>			_	<u> </u>		<u> </u>	· ·	-
14,8	15,5	32,5	2	307 382	410 382	220 145	116 145	25	<u>1</u> 2	225 364	436 364	98 19	8 19	53
19,3	20,0	35,0	1	321	432	227	116	26	1	240	456	107	8	68
10,0	20,0	00,0	2	401	401	147	147		2	383	383	22	22	
23,8	24,5	37,5	1	336	455	234	115	28	1	253	478	114	8	75
			2	422	422	148	148		2	403	403	24	24	
28,3	29,0	40,0	1	350	480	241	112	29	1	266	503	119	8	81
			2	444	444	147	147		2	440	440	107	107	
32,8	33,5	42,5	1	366	506	247	107	31	_1_	360	538	209	30	88
			2	467	467	146	146		2	489	489	79	79	
37,3	38,0	50,0	1	394	547	266	113	32	1	391	622	209	8	95
			2	504	504	155	155		2	555	555	60	60	
41,8	42,5	70,0	_1_	454	620	315	149	34	1	459	738	243	8	101
			2	574	574	195	195		2	656	656	68	68	

# 3.4.4.1 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





uw	260.2			Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	ngth 3	0 m
	t under ook	Center ballasts	Jib position		Crane in emome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
[m]	رس] [m]	∄ Cer	dil	<b>A</b> [kN]	B [kN]	C [kN]	D [kN]	KN]	dib	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	17,5	1	190	338	190	43	24	_1	116	253	116	8	50
19,3	20,0	17,5	1	295 195	295 352	86 195	86 38	26	1	210 118	210 267	36 118	36 8	64
23,8	24,5	17,5	1	306 200	306 368	84 200	84 31	27	2 1	219 119	219 283	36 119	36 8	71
28,3	29,0	17,5	1	319 204	319 385	80 204	80 23	29	2	230 119	230 301	35 119	35 8	77
32,8	33,5	22,5	1	332 221	332 416	76 221	76 26	30	2	257 196	257 348	101 196	101 44	84
37,3	38,0	30,0	2	359 244	359 455	83 244	83 34	32	2	304 219	304 418	89 219	89 21	91
41,8	42,5	40,0	2	393 274	393 501	96 274	96 47	33	2	360 242	360 504	79 242	79 8	97
46,3	47,0	52,5	2	434 310	434 555	114 310	114 65	35	2	425 259	425 614	73 259	73 8	104
50,8	51,5	70,0	2	483 358	483 624	136 358	136 93	36	2	499 296	499 734	70 296	70 8	110
	01,0	70,0	2	546	546	170	170		2	590	590	76	76	110
								-						

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#### 3.4.4.2 Center ballasts and corner loads DIN 15019





UW	260.2			Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	ngth 3	55 m
	under	Center ballasts	position		Crane ir			Horizontal force	Jib position			of serv nent: 0		 Horizontal force
[m]	\ \frac{1}{2}	[t]	od dib	A	Corner <b>B</b> [kN]	loads	D [kN]	[Xx] Horizo	Jib po	A	Corne B [kN]	r loads   <b>C</b> [kN]	<b>D</b> [kN]	[kN]   Horizo
[m]	[m]			[kN]		<del></del>				[kN]	<del></del>	<u> </u>	<u> </u>	
14,8	15,5	15,0	1	192	337	192	47	24	1	103	254	103	8	51
			2	295	295	89	89		2	204	204	30	30	
19,3	20,0	15,0	1	197	352	197	41	26	1	105	268	105	8	65
			2	307	307	87	87		2	213	213	29	29	
23,8	24,5	15,0	1	201	368	201	34	27	1	106	284	106	8	71
			2	319	319	83	83		2	231	231	121	121	
28,3	29,0	15,0	1	206	385	206	26	29	1	106	302	106	8	78
00.0	00.5	00.0	2	333	333	79	79	00	2	263	263	99	99	0.5
32,8	33,5	20,0	1	223	416	223	29	30	1_0	198	356	198	40	85
07.0	00.0	07.5	2	360	360	86	86	00	2	309	309	86	86	0.4
37,3	38,0	27,5	1	246	455	246	37	32	1	221	425	221	17	91
44.0	40.5	07.5	2	394	394	98	98	-00	2	366	366	77	77	
41,8	42,5	37,5	1	276	501	276	50	33	1	238	518	238	8	98
40.0	47.0	50.0	2	435	435	116	116	0.5	2	431	431	70	70	404
46,3	47,0	50,0	1	311	556	311	67	35	1	254	629	254	8	104
50.0	54.5	07.5	2	484	484	138	138	00	2	506	506	67	67	
50,8	51,5	67,5	1	360	625	360	94	36	1	290	751	290	72	111
			2	547	547	172	172		2	597	597	72	12	
								1						1

# 3.4.4.3 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





260.2			Corn	er dista	ance 6	m x 6 ı	m			,	Jib ler	ngth 4	0 m
under ok	nter ballasts	position		e mome	ent: <b>240</b>		zontal force	position		ue mon	nent: 0		Horizontal force
[m]	ق [t]	diL	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]	diV	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	분 [kN]
15,5	12,5	1 2	191 292	334 292	191 91	49 91	24	1 2	90 206	254 206	90 50	8 50	51
20,0	12,5	1	196	348	196	44	26	1	92	269	92	8	65
24,5	12,5	1	201	364	201	37	27	_1_	93	285	93	8	72
29,0	12,5	1	205	382	205	28	29	1	93	304	93	8	79
33,5	17,5	1	222	413	222	31	30	_1	197	361	197	33	85
38,0	25,0	1	245	452	245	39	32	1	220	432	220	9	92
42,5	37,5	1	281	505	281	58	34	1	242	533	242	8	98
47,0	50,0	1	317	559	317	75	35	1	257	646	257	8	105
			400	400	140	140			310	310	00	- 00	
							-						
							-						
							-						
	under ok [m] 15,5 20,0 24,5 29,0 33,5 38,0 42,5	under ok selled to be selled to	under ok ten de production de	under ok	under ok	under ok	under ok	under ok	under ok	Under ok	under ok	under ok	under ok

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#### 3.4.4.4 Center ballasts and corner loads DIN 15019





UW	260.2			Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	ngth 4	5 m
	under	Center ballasts	position		Crane in e mome			Horizontal force	Jib position			of serv		— Horizontal force
	\ \frac{1}{5}	-	od dil	Α,	Corne	С	D		od dib	A	В	r loads	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
14,8	15,5	10,0	1	191	336	191	46	25	_1_	97	291	97	8	52
			2	293	293	88	88		2	223	223	23	23	
19,3	20,0	10,0	1	195	351	195	40	26	_1_	97	309	97	8	66
			2	305	305	85	85		2	234	234	21	21	
23,8	24,5	10,0	_1_	200	367	200	33	28	_1_	96	329	96	8	73
			2	318	318	82	82		2	248	248	102	102	
28,3	29,0	12,5	1	211	391	211	30	29	_1_	106	352	106	8	79
			2	338	338	83	83		2	286	286	85	85	
32,8	33,5	12,5	1	215	410	215	21	31	_1_	187	379	187	8	86
			2	353	353	78	78		2	322	322	59	59	
37,3	38,0	22,5	1	245	455	245	34	32	_1_	198	475	198	8	93
			2	393	393	96	96		2	385	385	55	55	
41,8	42,5	37,5	1	287	515	287	59	34	1	230	580	230	8	99
			2	448	448	126	126		2	464	464	60	60	
46,3	47,0	55,0	1	335	582	335	88	35	1	269	695	269	8	106
			2	510	510	160	160		2	553	553	67	67	
								-						

#### 3.4.4.5 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.2			Corn	er dista	ance 6	m x 6 r	n				Jib ler	gth 5	0 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	(t)	dib	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	분 [kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	분 [kN]
14,8	15,5	10,0	1 2	193 297	340 297	193 90	47 90	25	1 2	83 234	320 234	83 13	8 13	52
19,3	20,0	12,5	1 2	204 315	361 315	204 93	47 93	26	1 2	95 251	338 251	95 17	8	67
23,8	24,5	12,5	1 2	209	378 328	209 89	40 89	28	1 2	94	359 265	94	8	74
28,3	29,0	15,0	1	220 348	401 348	220 91	38 91	29	1 2	105 304	382 304	105 85	85	80
32,8	33,5	17,5	1 2	230	427 369	230	34 92	31	1 2	114 346	406 346	114 65	8 65	87
37,3	38,0	25,0	1 2	254 404	466 404	254 103	41 103	32	1 2	203	502 403	203 54	8 54	93
41,8	42,5	40,0	1 2	296 458	526 458	296 133	66	34	1 2	234 483	608 483	234	8 59	100
46,3	47,0	57,5	1 2	344 521	594 521	344 167	94	35	1 2	272 572	724 572	272 66	8	107
				02.	021				_	0.2	0.2			

WOLFF 6017.10 CCplus and series

#### 3.4.4.6 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





Static data

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UW	260.2	!		Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	ngth 5	55 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		— Horizontal force
7	À	ent	od c		Corne	loads		riż	o d		Corne	r loads		orizo
[m]	[m]	C [t]	!!C	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	D [kN]	운  [kN]	į	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	<u>ゴ</u>  [kN]
14,8	15,5	22,5	1	232	370	232	95	25	1	112	392	112	8	53
			2	330	330	135	135		2	292	292	20	20	
19,3	20,0	22,5	1	237	385	237	89	26	1	112	411	112	8	68
			2	342	342	132	132		2	303	303	18	18	
23,8	24,5	25,0	1	248	408	248	88	28	1	123	432	123	8	74
			2	361	361	134	134		2	322	322	22	22	
28,3	29,0	25,0	1	252	426	252	79	29	1	121	455	121	8	81
		· ·	2	375	375	130	130		2	347	347	108	108	
32,8	33,5	27,5	1	263	451	263	75	31	1	129	481	129	8	88
'	,	ĺ	2	396	396	130	130		2	389	389	87	87	
37,3	38,0	30,0	1	274	478	274	70	33	1	227	533	227	8	94
'	,	ĺ	2	418	418	130	130		2	435	435	63	63	
41,8	42,5	42,5	1	310	532	310	88	34	1	245	642	245	8	101
'	,	ĺ	2	467	467	153	153		2	509	509	61	61	

962-4-022574-5E 962-4-022574-6E

#### 3.4.4.7 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.2			Corn	er dista	nce 6	m x 6 ı	n			,	Jib ler	ngth 6	0 m
	under ook	Center ballasts	Jib position		Crane ir	ent: <b>240</b>		 Horizontal force	position		ue mon	of serv		 Horizontal force
[m]	, Y [m]	(±) Cen	d dil	<b>A</b> [kN]	Corner <b>B</b> [kN]	loads C [kN]	<b>D</b> [kN]	[kN]	Jibp	A [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	20,0	1	232 331	372 331	232 134	93 134	25	1 2	110 304	414 304	110 17	8 17	53
19,3	20,0	22,5	1 2	243	393 349	243	93	26	1 2	122	433	122	8 21	68
23,8	24,5	22,5	1 2	247 362	409 362	247	86	28	1 2	121 335	454 335	121	8	75
28,3	29,0	25,0	1 2	258 382	433 382	258 135	83	29	1 2	130 374	478 374	130	8	81
32,8	33,5	27,5	1 2	269 403	459 403	269 135	80	31	1 2	139 417	504 417	139 76	8 76	88
37,3	38,0	30,0	1 2	280 425	485 425	280 135	74 135	32	1 2	216 463	590 463	216 51	8 51	95
41,8	42,5	47,5	1 2	328 486	552 486	328 170	105 170	34	1 2	257 551	701 551	257 61	8	101
				400	400	170	170			331	331	01	01	

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#### 3.4.5.1 Center ballasts and corner loads DIN 15019





UW	260.3	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 3	0 m
	t under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		— Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	(t)	dil	<b>A</b> [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	훈 [kN]
14,8	15,5	30,0	1 2	276 354	385 354	183 105	74 105	24	1 2	201 266	291 266	124 58	33 58	50
19,3	20,0	30,0	1 2	283 368	400	185 101	68	26	1 2	207	303 277	126 57	30 57	64
23,8	24,5	30,0	1 2	291 382	416 382	186 96	61 96	27	1 2	214 288	316 288	128 54	26 54	71
28,3	29,0	30,0	1 2	300 397	434 397	187 90	52 90	29	1 2	253 312	334 312	184 124	102 124	77
32,8	33,5	37,5	1 2	327 432	472 432	205	61	30	1 2	289	402 371	194 112	81 112	84
37,3	38,0	47,5	1 2	362 474	517 474	230 118	75 118	32	1 2	333 439	480 439	209	62 103	91
41,8	42,5	60,0	1 2	403 524	571 524	261 139	93	33	1 2	384 517	568 517	229 96	45 96	97
46,3	47,0	75,0	1 2	451 582	632 582	297 166	115 166	35	1 2	444	668	254 92	29 92	104
50,8	51,5	95,0	1 2	511 654	708 654	345 203	149	36	1 2	517 711	786 711	290 95	21 95	110
55,3	56,0	120,0	1 2	585 740	799 740	405 251	192 251	38	1 2	604 834	922	337 107	19 107	117
				7 10	7 10	201	201		_			101	107	

#### 3.4.5.2 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.3			Corn	er dista	ance 5	m x 6,7	79 m				Jib ler	ngth 3	5 m
	under ook	Center ballasts	Jib position		Crane ir	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		 Horizontal force
<del>ر</del>	Ę		od dil	Α	Corner <b>B</b>	С	D		q dib	Α	В	r loads	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
14,8	15,5	27,5	1	276	384	186	78	24	1	194	285	117	26	51
			2	354	354	108	108		2	260	260	52	52	
19,3	20,0	27,5	1	284	399	187	72	26	1	201	298	120	23	65
			2	368	368	104	104		2	271	271	50	50	
23,8	24,5	27,5	1	292	416	188	64	27	_1_	208	311	122	19	71
			2	382	382	98	98		2	282	282	48	48	
28,3	29,0	27,5	1	301	434	189	55	29	1	256	342	183	98	78
			2	397	397	92	92		2	318	318	121	121	
32,8	33,5	35,0	1	328	472	207	64	30	1	292	409	194	77	85
			2	432	432	104	104		2	377	377	109	109	
37,3	38,0	45,0	1	363	518	232	77	32	1	336	488	209	57	91
,	,	ĺ	2	475	475	120	120		2	446	446	99	99	
41,8	42,5	57,5	1	404	571	263	95	33	1	388	577	228	39	98
,	,	ĺ	2	525	525	142	142	Ī	2	525	525	92	92	
46,3	47,0	72,5	1	452	633	299	118	35	1	448	678	253	23	104
-,-	,-	,-	2	583	583	168	168		2	614	614	87	87	
50,8	51,5	95,0	1	519	716	353	157	36	1	527	803	295	20	111
/ -	- /-	, .	2	661	661	211	211		2	726	726	96	96	
55,3	56.0	120.0	1	593	807	413	200	38	1	615	940	341	17	117
,-	/ -	-,-	2	748	748	259	259		2	850	850	107	107	
								1						

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#### 3.4.5.3 Center ballasts and corner loads DIN 15019





UW	260.3	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 4	10 m
	under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		 Horizontal force
7	8	Cent	dib p	A	Corne	r loads	D	_ Horiz	Jib p	A	Corne B	r loads	D	_ Horiz
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
14,8	15,5	25,0	1	275	380	186	81	24	_1	201	283	132	51	51
			2	351	351	110	110		2	260	260	73	73	
19,3	20,0	25,0	1	283	396	187	74	26	_1	208	297	134	46	65
			2	364	364	106	106		2	272	272	70	70	
23,8	24,5	25,0	1	291	412	188	67	27	_1	216	312	135	40	72
			2	379	379	100	100		2	285	285	66	66	
28,3	29,0	25,0	1	299	430	189	58	29	_1	257	347	181	91	79
			2	394	394	94	94		2	322	322	116	116	
32,8	33,5	32,5	1	327	468	208	66	30	_1	294	416	191	69	85
			2	429	429	106	106		2	382	382	103	103	
37,3	38,0	42,5	1	361	514	232	80	32	_1	338	495	206	49	92
			2	472	472	122	122		2	451	451	93	93	
41,8	42,5	55,0	_1	403	568	263	97	34	1	390	585	226	31	98
			2	522	522	143	143		2	531	531	85	85	
46,3	47,0	72,5	_1	457	636	305	126	35	1	456	692	256	20	105
			2	587	587	175	175		2	627	627	85	85	
50,8	51,5	95,0	_1	524	719	359	164	37	1	536	818	298	16	112
			2	665	665	218	218		2	740	740	94	94	
55,3	56,0	122,5	_1	605	817	426	213	38	_1	630	962	350	18	118
			2	758	758	272	272		2	870	870	110	110	
									-					

#### 3.4.5.4 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.3	1		Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 4	5 m
	under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	王 Cent	dib p	<b>A</b> [kN]	Corner B [kN]	loads C [kN]	<b>D</b> [kN]	[kN]	d dib	<b>A</b> [kN]	Corne B [kN]	r loads   <b>C</b>   [kN]	<b>D</b> [kN]	il RN]
14,8	15,5	22,5	1	275	383	184	77	25	1	203	314	115	16	52
,-	-,-	,-	2	353	3 353 107 107				2	282	282	42	42	
19,3	20,0	22,5	1	283	3 398 186 70			26	1	206	333	112	16	66
-,-	-,-	,-	2	366	3 398 186 70 6 366 102 102				2	294	294	39	39	
23,8	24,5	22,5	1	291	415	63	28	1	207	354	107	16	73	
,	,	ĺ	2	381	381	97	97		2	307	307	35	35	
28,3	29,0	22,5	1	300	433	187	53	29	1	208	378	101	16	79
		i i	2	396	396	90	90		2	339	339	97	97	
32,8	33,5	25,0	1	315	459	193	49	31	1	287	425	171	33	86
		i i	2	419	419	89	89		2	387	387	71	71	
37,3	38,0	37,5	1	356	512	224	68	32	1	338	511	192	19	93
		i i	2	468	468	111	111		2	463	463	67	67	
41,8	42,5	57,5	1	416	585	273	104	34	1	409	621	230	18	99
			2	538	538	151	151		2	562	562	77	77	
46,3	47,0	80,0	1	483	666	328	145	35	1	488	742	273	18	106
			2	615	615	196	196		2	672	672	89	89	
50,8	51,5	102,5	1	550	749	382	183	37	1	566	872	312	16	112
			2	694	694	238	238		2	786	786	96	96	
														1

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#### 3.4.5.5 Center ballasts and corner loads DIN 15019





UW	260.3	}		Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	gth 5	60 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	position		ue mom	of serv		Horizontal force
[m]	[m]	පී [t]	qin	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 [kN]	dil	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	22,5	1 2	278 357	387 357	187	78 108	25	1 2	194 295	344 295	96 30	16	52
19,3	20,0	22,5	1 2	286 370	402 370	188	71	26	1 2	196 307	364 307	93 27	16 27	67
23,8	24,5	25,0	1 2	301 391	426 391	195 105	70 105	28	1 2	210 327	386 327	100	16	74
28,3	29,0	27,5	1 2	315 413	450 413	202	67	29	1 2	223 365	409 365	106 102	16 102	80
32,8	33,5	30,0	1 2	331 436	476 436	208 103	62 103	31	1 2	307 413	454 413	182 76	35 76	87
37,3	38,0	42,5	1 2	372 485	529 485	239 125	81 125	32	1 2	357 490	540 490	203 71	20 71	93
41,8	42,5	62,5	1 2	432 555	602 555	288 164	117 164	34	1 2	429 589	651 589	241 80	19 80	100
46,3	47,0	82,5	1 2	492 626	677 626	336 202	151 202	35	1 2	498 693	770 693	274 85	16 85	107
50,8	51,5	107,5	1 2	566 712	767 712	396 251	195 251	37	1 2	585 814	905 814	321 98	16 98	113

#### 3.4.5.6 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





uw	260.3			Corn	er dista	ance 5	m x 6,7	79 m			,	Jib ler	ngth 5	5 m
	t under ook	Center ballasts	Jib position		Crane in emome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
ر [m]	رس] اسا	크 Cen	dib p	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	diU	<b>A</b> [kN]	Come B [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	32,5	1	308	410	222	120	25	1	220	421	100	16	53
		i i	2	382	382	148	148		2	352	352	26	26	
19,3	20,0	35,0	1	322	432	230	120	26	1	235	441	108	16	68
			2	402	402	150	150		2	371	371	29	29	
23,8	24,5	37,5	1	337	456	237	118	28	1	248	463	116	16	74
			2	423	423	151	151		2	391	391	30	30	
28,3	29,0	40,0	1	352	480	243	115	29	1	261	487	121	16	81
			2	445	445	150	150		2	416	416	129	129	
32,8	33,5	42,5	1	367	507	250	110	31	1	274	514	125	16	88
		i i	2	468	468	149	149		2	465	465	102	102	
37,3	38,0	45,0	1	383	534	255	104	33	1	376	571	212	17	94
		i i	2	492	492	146	146		2	517	517	71	71	
41,8	42,5	65,0	1	443	608	304	140	34	1	447	683	249	16	101
			2	562	562	185	185		2	618	618	80	80	
46,3	47,0	87,5	1	510	689	359	180	36	1	525	808	290	16	107
			2	640	640	229	229		2	729	729	90	90	
50,8	51,5	112,5	1	584	779	419	224	37	1	611	945	335	16	114
			2	725	725	278	278		2	851	851	102	102	

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#### 3.4.5.7 Center ballasts and corner loads DIN 15019





UW	260.3	}		Corn	er dista	nce 5	m x 6,7	79 m			,	Jib ler	ngth 6	0 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mom	of serv		Horizontal force
[m]	[m]	ē [t]	qin	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	[kN]	dib	<b>A</b> [kN]	B [kN]	C [kN]	D [kN]	년 [kN]
14,8	15,5	32,5	1	315	418	228	124	25	1	233	444	106	16	53
19,3	20,0	35,0	1	389 329	389 440	153 235	153	26	1	372 247	372 464	114	27 16	68
23,8	24,5	37,5	1 2	409 343 430	409 463 430	155 242 155	155 122 155	28	1 2	391 261 410	391 486 410	30 121 32	30 16 32	75
28,3	29,0	40,0	1 2	358 452	488 452	249 155	119 155	29	1 2	274 447	511 447	127 115	16 115	81
32,8	33,5	42,5	1 2	374 475	514 475	255 154	115 154	31	1 2	367 497	546 497	216 87	38 87	88
37,3	38,0	50,0	1 2	402 512	554 512	273 163	121 163	32	1 2	399 562	630 562	217 68	16 68	95
41,8	42,5	70,0	2	462 582	628 582	322 203	157 203	34	1	467 664	746 664	251 76	16 76	101
46,3	47,0	95,0	1 2	535 666	716 666	383 253	203 253	35	1 2	556 782	873 782	302 91	16 91	108
50,8	51,5	120,0	1 2	609 751	806 751	443 301	247 301	37	1 2	641 906	1013 906	345 102	16 102	114

#### 3.4.6.1 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.3			Corn	er dista	ance 6	m x 6 r	n			,	Jib ler	ngth 3	0 m
	t under ook	Center ballasts	Jib position		Crane in emome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
ر [m]	ر [m]	크 Cen	dib p	<b>A</b> [kN]	B [kN]	C [kN]	D [kN]	[kN]	diU	A [kN]	B [kN]	C [kN]	D [kN]	<sup>[i]</sup> 원 [kN]
14,8	15,5	17,5	1	198	346	198	51	24	1	124	261	124	16	50
19,3	20,0	17,5	1	302 203	302 360	203	94 45	26	1	218 126	218 275	126	16	64
23,8	24,5	17,5	1	314 207	314 376	92 207	92 39	27	1	227 127	227	127	16 16	71
28,3	29,0	17,5	1 2	327 212 340	327 393 340	212 84	88 31 84	29	2 1 2	237 127 265	237 309 265	127 109	43 16 109	77
32,8	33,5	22,5	1 2	229 367	424 367	229 91	34 91	30	1 2	204	356 312	204	52 96	84
37,3	38,0	30,0	1 2	252 401	462 401	252 104	42 104	32	1 2	227 367	425	227 87	29 87	91
41,8	42,5	40,0	1 2	282	509 442	282	55 121	33	1 2	250 432	512 432	250 81	16 81	97
46,3	47,0	52,5	1 2	318 491	563 491	318	72 144	35	1 2	267 507	622	267 78	16	104
50,8	51,5	70,0	1 2	366 554	631	366 178	100	36	1 2	303 598	742 598	303 84	16 84	110
55,3	56,0	90,0	1 2	420 624	708 624	420 217	133 217	38	1 2	347 698	872 698	347 93	16	117
59,8	60,5	107,5	1 2	476 693	783 693	476 259	169 259	41	1 2	389 803	1011	389 99	16 99	127

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#### 3.4.6.2 Center ballasts and corner loads DIN 15019





UW	260.3	}		Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	gth 3	5 m
	t under ook	Center ballasts	Jib position		Crane ir e mome Corne	ent: <b>240</b>			position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	[t]	diL	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	Fig. [kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	15,0	1 2	200 303	345 303	200 97	54 97	24	1 2	111 212	261 212	111 38	16 38	51
19,3	20,0	15,0	1 2	204 314	360 314	204 94	49 94	26	1 2	113 221	276 221	113 37	16 37	65
23,8	24,5	15,0	1 2	209	376 327	209	42 91	27	1 2	114	292	114 129	16 129	71
28,3	29,0	15,0	1 2	213 340	393 340	213 86	34 86	29	1 2	114 270	310 270	114 107	16 107	78
32,8	33,5	20,0	1 2	230	424 367	230 94	37 94	30	1 2	205 317	363 317	205	48	85
37,3	38,0	27,5	1 2	254 401	463 401	254 106	45 106	32	1 2	229 373	433 373	229 84	24 84	91
41,8	42,5	37,5	1 2	283 443	509 443	283 124	57 124	33	1 2	246 439	526 439	246 78	16 78	98
46,3	47,0	50,0	1 2	319 492	564 492	319 146	75 146	35	1 2	262 514	637	262 74	16 74	104
50,8	51,5	67,5	1 2	367 555	633	367 180	102	36	1 2	298	759 605	298 80	16	111
55,3	56,0	90,0	1 2	428 632	716 632	428 225	140 225	38	1 2	353 713	891 713	353 94	16 94	117
59,8	60,5	107,5	1 2	484 701	791 701	484	177 267	41	1 2	395 818	1031	395 100	16 100	128
			_						_	0.0	0.0			

# 3.4.6.3 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





UW	260.3			Corn	er dista	nce 6	m x 6 r	n				Jib ler	ngth 4	0 m
	under	Center ballasts	sition	_	Crane in			Horizontal force	position			of serv		Horizontal force
-	5	_	Jib position	Α	Corner <b>B</b>	С	D		od dil	Α	В	r loads   <b>C</b>	D	
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN
14,8	15,5	12,5	1	199	341	199	57	24	1	98	262	98	16	51
			2	300	300	99	99		2	213	213	57	57	
19,3	20,0	12,5	1	204	356	204	51	26	_1_	100	277	100	16	65
			2	311	311	96	96		2	224	224	56	56	
23,8	24,5	12,5	_1_	208	372	208	44	27	_1_	101	293	101	16	72
			2	324	324	92	92		2	242	242	125	125	
28,3	29,0	12,5	1	213	389	213	36	29	1	101	311	101	16	79
			2	338	338	88	88		2	274	274	102	102	
32,8	33,5	17,5	1	230	421	230	39	30	_1_	205	369	205	41	85
			2	365	365	95	95		2	321	321	89	89	
37,3	38,0	25,0	1	253	459	253	47	32	1	228	439	228	17	92
			2	399	399	107	107		2	378	378	79	79	
41,8	42,5	37,5	_1_	289	512	289	66	34	1	250	541	250	16	98
			2	447	447	131	131		2	450	450	78	78	
46,3	47,0	50,0	_1_	325	567	325	82	35	1	265	654	265	16	105
			2	496	496	153	153		2	525	525	74	74	
50,8	51,5	70,0	1	379	643	379	116	37	1	312	777	312	16	112
			2	565	565	193	193		2	624	624	85	85	
55,3	56,0	90,0	_1	434	720	434	148	38	1	354	912	354	16	118
			2	636	636	231	231		2	726	726	92	92	
59,8	60,5	110,0	1	496	802	496	190	41	1	408	1052	408	16	129
			2	712	712	280	280		2	838	838	104	104	

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#### 3.4.6.4 Center ballasts and corner loads DIN 15019





UW	260.3			Corn	er dista	nce 6	m x 6 r	n			,	Jib ler	gth 4	5 m
ho HH	t under ook	Center ballasts	Jib position		Crane in e mome Corne	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0 l		Horizontal force
ک [m]	[m]	크 Cer	dib p	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	diL	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	10,0	1 2	198 301	344 301	198 96	53 96	25	1 2	104 231	299 231	104 31	16 31	52
19,3	20,0	10,0	1 2	203 313	359 313	203 93	47 93	26	1 2	104 242	317 242	104 29	16 29	66
23,8	24,5	10,0	1 2	208 326	375 326	208 89	40 89	28	12	103 255	337 255	103 110	16 110	73
28,3	29,0	12,5	1 2	218 346	399 346	218 91	38 91	29	1 2	114 294	359 294	114 93	16 93	79
32,8	33,5	12,5	1	223 360	417 360	223 85	28 85	31	1 2	194 329	387 329	194 66	16 66	86
37,3	38,0	22,5	1	252 401	463 401	252 104	42 104	32	1 2	206 393	483 393	206 62	16 62	93
41,8	42,5	37,5	1 2	294 456	522 456	294 133	67 133	34	1	237 472	587 472	237 67	16 67	99
46,3	47,0	55,0	1 2	343 518	590 518	343 168	96 168	35	1 2	277 561	702 561	277 75	16 75	106
50,8	51,5	75,0	1 2	397 587	666 587	397 207	129 207	37	1 2	323 660	828 660	323 85	16 85	112
55,3	56,0	95,0	1 2	452 658	744 658	452 245	160 245	38	2	363 763	965 763	363 91	16 91	119
59,8	60,5	115,0	1 2	514 734	826 734	514 294	202 294	41	1 2	417 875	1107 875	417 103	16 103	130

#### 3.4.6.5 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive





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υw	260.3	3		Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	gth 5	0 m
	t under ook	Center ballasts	position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
[m]	[m]	王 Cent	dib p	<b>A</b> [kN]	Corner <b>B</b> [kN]	r loads   C   [kN]	<b>D</b> [kN]	[kN] Horiz	Jibp	<b>A</b> [kN]	Corne B [kN]	r loads   C   [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	10,0	1	201	348	201	55	25	1	91	328	91	16	52
,0	10,0	10,0	2	305	305	98	98		2	242	242	21	21	02
19,3	20,0	12,5	1	212	369	212	55	26	1	103	346	103	16	67
. 0,0	20,0	,	2	323	323	101	101		2	259	259	25	25	
23,8	24,5	12,5	1	217	385	217	48	28	1	102	367	102	16	74
20,0	,0	,0	2	336	336	97	97		2	273	273	110	110	
28,3	29,0	15,0	1	227	409	227	45	29	1	112	389	112	16	80
,-		,.	2	356	356	99	99		2	312	312	93	93	
32,8	33,5	17,5	1	238	435	238	42	31	1	121	414	121	16	87
,-	,-	,-	2	377	377	99	99		2	354	354	73	73	
37,3	38,0	25,0	1	261	474	261	49	32	1	210	509	210	16	93
- /-	,-	.,.	2	412	412	111	111		2	411	411	62	62	
41,8	42,5	40,0	1	303	534	303	73	34	1	241	616	241	16	100
,	,		2	466	466	141	141		2	491	491	66	66	
46,3	47,0	57,5	1	352	601	352	102	35	1	280	732	280	16	107
			2	528	528	175	175		2	580	580	73	73	
50,8	51,5	77,5	1	406	678	406	135	37	1	325	859	325	16	113
			2	598	598	215	215		2	680	680	83	83	
55,3	56,0	100,0	1	467	762	467	172	38	1	377	999	377	16	120
			2	676	676	258	258		2	790	790	94	94	
59,8	60,5	120,0	1	529	844	529	214	41	1	430	1142	430	16	130
			2	752	752	307	307		2	902	902	106	106	

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#### 3.4.6.6 Center ballasts and corner loads DIN 15019





UW	260.3			Corn	er dista	ance 6	m x 6 r	n			•	Jib ler	ngth 5	55 m
	under ook	Center ballasts	Jib position		Crane in e mome	ent: <b>240</b>		Horizontal force	Jib position		ue mon	of serv		 Horizontal force
[m]	[m]	පී [t]	g	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]	diL	A [kN]	B [kN]	C [kN]	D [kN]	년 [kN]
14,8	15,5	22,5	1	240	378	240	102	25	1	120	400	120	16	53
14,0	15,5	22,5	2	338	338	143	143	23	2	300	300	28	28	55
19,3	20,0	22,5	1	245	393	245	96	26	1	120	419	120	16	68
10,0	20,0	22,0	2	350	350	140	140		2	311	311	26	26	
23,8	24,5	25,0	1	256	416	256	95	28	1	131	440	131	16	74
20,0	2.,0	20,0	2	369	369	142	142		2	329	329	29	29	
28,3	29,0	25,0	1	260	434	260	87	29	1	128	463	128	16	81
-,-	.,.	- / -	2	383	383	137	137		2	355	355	116	116	
32,8	33,5	27,5	1	271	459	271	83	31	1	137	489	137	16	88
			2	404	404	138	138		2	397	397	95	95	
37,3	38,0	30,0	1	282	486	282	78	33	1	235	541	235	16	94
			2	426	426	137	137		2	443	443	71	71	
41,8	42,5	42,5	1	318	540	318	95	34	1	253	649	253	16	101
			2	475	475	161	161		2	517	517	68	68	
46,3	47,0	60,0	_1_	366	608	366	124	36	1	290	768	290	16	107
			2	537	537	195	195		2	607	607	75	75	
50,8	51,5	80,0	_1	420	684	420	157	37	1	334	898	334	16	114
			2	607	607	234	234		2	707	707	83	83	
55,3	56,0	102,5	_1_	481	769	481	193	39	1	384	1041	384	16	120
			2	685	685	278	278		2	819	819	94	94	

#### 3.4.6.7 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive

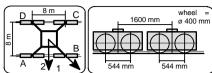




UW	260.3	}		Corn	er dista	ance 6	m x 6 ı	n			,	Jib ler	ngth 6	0 m
	t under ook	Center ballasts	position		Crane in e mome	ent: <b>240</b>		Horizontal force	position			of serv		Horizontal force
[m]	[m]	(‡) Cer	diL	<b>A</b> [kN]	B [kN]	C [kN]	<b>D</b> [kN]	년 (kN)	dib	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	[kN]
14,8	15,5	20,0	1 2	240 338	379 338	240 141	100 141	25	1 2	118 312	422 312	118 24	16 24	53
19,3	20,0	22,5	1 2	251 357	401 357	251 145	101	26	1 2	130	441 329	130	16 29	68
23,8	24,5	22,5	1 2	255 370	417 370	255 141	93	28	1 2	128 342	462 342	128 123	16 123	75
28,3	29,0	25,0	1 2	266 390	441 390	266 142	91	29	1 2	138	485	138 105	16 105	81
32,8	33,5	27,5	1 2	277 411	466 411	277	87 143	31	1 2	147 425	511 425	147	16 84	88
37,3	38,0	30,0	1 2	288	493	288	82 142	32	1 2	223 471	598 471	223	16 59	95
41,8	42,5	47,5	1 2	336 494	559 494	336 178	112	34	1 2	265 558	708 558	265 69	16 69	101
46,3	47,0	65,0	1 2	384 556	628 556	384 212	141	35	1 2	301 649	829 649	301 74	16 74	108
50,8	51,5	87,5	1 2	445 633	710 633	445	180	37	1 2	356 757	962 757	356 88	16 88	114
55,3	56,0	110,0	1 2	506 711	796 711	506 301	216 301	38	1 2	405 870	1109 870	405 97	16 97	121
				711	711	301	301			070	070	31	31	

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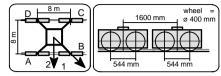
#### 3.4.7.1 Center ballasts and corner loads DIN 15019



UW	480			Corner	distan	ce 8 n	n x 8 m	ı				Jib le	nght	30 m
	t under ook	Center ballasts	position		Crane ir e mome	ent: <b>240</b>		Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
c [m]	[m]	Ce [±]	qin	A [kN]	<b>B</b> [kN]	C [kN]	<b>D</b> [kN]	분 [kN]	dib	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	년 [kN]
15,3	16,0	0,0	1	200	312	200	88	26	1	132	226	132	39	54
		, i	2	279	279	120	120		2	198	198	66	66	
19,8	20,5	0,0	1	207	327	207	87	28	1	139	239	139	40	70
			2	291	291	122	122		2	210	210	69	69	
24,3	25,0	0,0	1	211	339	211	83	30	1	144	249	144	39	76
			2	302	302	120	120		2	229	229	143	143	
28,8	29,5	0,0	1	216	353	216	78	31	_1	191	280	191	102	83
			2	313	313	118	118		2	254	254	128	128	
33,3	34,0	0,0	1	220	368	220	73	33	_1	195	316	195	75	90
			2	325	325	116	116		2	281	281	110	110	
37,8	38,5	0,0	1	225	384	225	66	34	_1	200	355	200	45	96
			2	337	337	113	113		2	309	309	90	90	
42,3	43,0	2,5	1	236	407	236	65	36	1	204	410	204	25	103
			2	357	357	115	115		2	347	347	74	74	
46,8	47,5	10,0	_1_	259	443	259	75	37	1	209	492	209	25	109
			2	389	389	129	129		2	399	399	69	69	
51,3	52,0	22,5	_1_	295	494	295	96	39	_1	237	581	237	25	116
			2	435	435	154	154		2	466	466	73	73	
55,8	56,5	37,5	_1_	337	552	337	122	40	_1_	273	677	273	25	123
			2	489	489	185	185		2	542	542	81	81	
60,3	61,0	52,5	1	381	613	381	149	42	_1_	309	783	309	25	130
			2	545	545	217	217		2	624	624	88	88	
64,8	65,5	70,0	1	432	682	432	182	44	1	351	901	351	25	139
			2	609	609	255	255		2	717	717	97	97	
69,3	70,0	90,0	1	489	760	489	219	46	1	402	1028	402	25	148
			2	680	680	298	298		2	819	819	109	109	
73,8	74,5	110,0	1	547	838	547	257	48	1	451	1162	451	25	157
			2	753	753	342	342		2	924	924	120	120	
78,3	79,0	130,0	1	605	917	605	293	51	1	494	1307	494	25	166
			2	826	826	385	385		2	1034	1034	127	127	

#### 3.4.7.2 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive

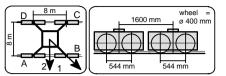


UW	480			Corner	distan	ce 8 n	n x 8 m	١				Jib le	nght	35 m
ho	t under ook	Center ballasts	Jib position		Crane in e mome Corne	ent: <b>240</b>		 Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
ÁA	¥	Sen	qi				_	oriż	음	١.			_	oriż
[m]	[m]	[t]	,	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	エ [kN]		A [kN]	B [kN]	C [kN]	D [kN]	I [kN]
15,3	16,0	0,0	1	207	318	207	97	26	1	132	226	132	39	54
			2	286	286	129	129		2	198	198	66	66	
19,8	20,5	0,0	1	214	333	214	96	28	1	139	239	139	40	70
			2	298	298	130	130		2	217	217	162	162	
24,3	25,0	0,0	1	219	346	219	92	30	1	194	258	194	130	77
			2	309	309	129	129		2	239	239	148	148	
28,8	29,5	0,0	1	223	360	223	87	31	1	198	292	198	105	84
			2	320	320	127	127		2	264	264	133	133	
33,3	34,0	0,0	1	228	375	228	81	33	1	203	328	203	78	90
			2	332	332	124	124		2	291	291	115	115	
37,8	38,5	0,0	1	233	390	233	75	34	1	208	367	208	48	97
,	,		2	344	344	121	121		2	321	321	95	95	
42,3	43,0	0,0	1	237	407	237	67	36	1	202	420	202	25	103
			2	357	357	117	117		2	352	352	72	72	
46,8	47,5	10,0	1	267	450	267	83	37	1	219	503	219	25	110
			2	397	397	137	137		2	411	411	73	73	
51,3	52,0	22,5	1	302	501	302	104	39	1	246	593	246	25	117
			2	443	443	162	162		2	478	478	77	77	
55,8	56,5	37,5	1	345	560	345	130	40	1	281	691	281	25	123
			2	497	497	193	193		2	555	555	84	84	
60,3	61,0	52,5	1	389	621	389	157	42	1	317	798	317	25	131
			2	553	553	225	225		2	637	637	91	91	
64,8	65,5	70,0	1	440	691	440	189	44	1	359	917	359	25	140
			2	617	617	263	263		2	730	730	99	99	
69,3	70,0	90,0	1	497	768	497	226	46	1	408	1047	408	25	148
			2	689	689	305	305		2	833	833	111	111	
73,8	74,5	110,0	1	555	847	555	263	49	1	456	1182	456	25	158
			2	761	761	349	349		2	939	939	121	121	
78,3	79,0	130,0	1	613	927	613	299	51	1	499	1329	499	25	167
			2	835	835	391	391		2	1049	1049	127	127	
		l												

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#### 3.4.7.3 Center ballasts and corner loads DIN 15019

for a travelling tower crane on an undercarriage without climbing drive

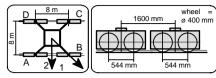


UW	480		(	Corner	distan	ce 8 n	1 x 8 m					Jib le	nght	40 m
	t under ook	Center ballasts	position		Crane in emome	ent: <b>240</b>		Horizontal force	position o		ue mon	of serv nent: 0		
			gi	A	В	C	D		ą	A	В	C	D	년 [kN]
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	
15,3	16,0	0,0	1	213	321	213	105	26	1_	149	233	149	65	55
			2	289	289	136	136		2	209	209	90	90	
19,8	20,5	0,0	1	220	336	220	104	28	11	156	248	156	65	71
			2	302	302	138	138		2	225	225	165	165	
24,3	25,0	0,0	1	225	349	225	100	30	1_	200	268	200	131	78
			2	313	313	136	136		2	248	248	151	151	
28,8	29,5	0,0	1	229	363	229	95	31	1_	204	302	204	107	84
			2	324	324	134	134		2	273	273	135	135	
33,3	34,0	0,0	1	234	378	234	89	33	1	209	338	209	79	91
			2	336	336	132	132		2	300	300	117	117	
37,8	38,5	0,0	1	238	394	238	82	35	1	213	378	213	48	97
			2	348	348	128	128		2	330	330	97	97	
42,3	43,0	0,0	1	243	411	243	74	36	1	207	431	207	25	104
,-	-,-	-,-	2	362	362	124	124		2	362	362	74	74	
46,8	47,5	7,5	1	266	448	266	84	38	1	212	515	212	25	111
,.	,-	.,-	2	395	395	137	137		2	414	414	68	68	1
51,3	52,0	22,5	1	308	505	308	111	39	1	251	606	251	25	117
0.,0	02,0	,	2	448	448	169	169		2	489	489	78	78	1
55,8	56,5	37,5	1	350	564	350	137	41	1	285	705	285	25	124
00,0	00,0	0,,0	2	501	501	199	199	1	2	566	566	85	85	
60,3	61,0	52,5	1	395	626	395	164	43	1	320	814	320	25	132
00,5	01,0	02,0	2	558	558	231	231	10	2	649	649	91	91	102
64,8	65,5	70,0	1	446	696	446	196	44	1	361	935	361	25	140
04,0	05,5	70,0	2	622	622	269	269		2	742	742	99	99	140
69,3	70,0	90.0	1	503	773	503	232	46	1	410	1066	410	25	149
05,5	10,0	90,0	2	694	694	311	311	40	2	846	846	110	110	143
72.0	74.5	1100						40						150
73,8	74,5	110,0	2	561	852	561	269	49	2	457	1204	457	25	158
70.0	70.0	122.5		767	767	355	355	F4		952	952	119	119	100
78,3	79,0	132,5	1	625	938	625	311	51	1	511	1352	511	25	168
			2	847	847	403	403		2	1069	1069	131	131	
				l		L			Ь			<u> </u>		

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#### 3.4.7.4 Center ballasts and corner loads DIN 15019

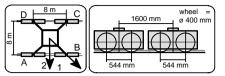
for a travelling tower crane on an undercarriage without climbing drive



uw	480		(	Corner	distan	ce 8 n	n x 8 m	I				Jib le	nght	45 m
	t under ook	Center ballasts	position		Crane in e mome	ent: <b>240</b>		 Horizontal force	position		ue mon	of serv nent: 0		Horizontal force
[m]	[m]	[t]	dib	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	음	A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	[kN]
15,3	16,0	0,0	1	218	329	218	108	27	1	151	258	151	43	56
19,8	20,5	0,0	1	297 226	297 344	140 226	140	29	1	227 158	227	75 158	75 43	72
24,3	25,0	0,0	1	309 230	309 357	142 230	142 103	30	1	241 205	241 289	160 205	160 122	79
28,8	29,5	0,0	1	320 235	320 371	140 235	98 100	32	1	264	323	146 210	97 100	85
33,3	34,0	0,0	1	239	331	138 239	92 435	33	1	290 214	290 360	130 214	130 69	92
37,8	38,5	0,0	1 2	343 244	343 403	135 244	135 85	35	1 2	317 219	317 400	219	37 00	98
42,3	43,0	0,0	1 2	356 248 370	356 420 370	131 248 127	131 77 127	36	1 2	347 201 379	347 466 379	90 201 67	90 25 67	105
46,8	47,5	12,5	1 2	284 415	470 415	284	99	38	1 2	230 445	551 445	230	25 73	111
51,3	52,0	25,0	1 2	320 462	521 462	153 320 178	119 178	39	1 2	256 514	644	256 76	25 76	118
55,8	56,5	40,0	1 2	362 516	580 516	362 208	144	41	1 2	289 591	745 591	289 82	25 82	125
60,3	61,0	57,5	1 2	413 579	648 579	413 246	177 246	43	1 2	335 681	855 681	335 94	25 94	133
64,8	65,5	75,0	1 2	464 644	718 644	464 284	209	45	1 2	376 776	978 776	376 102	25 102	141
69,3	70,0	95,0	1 2	521 716	797 716	521 326	245 326	47	1 2	423 880	1112 880	423 111	25 111	150
73,8	74,5	115,0	1 2	579 789	875 789	579 369	282 369	49	1 2	469 987	1251 987	469 120	25 120	159
			_											

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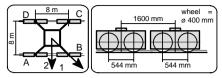
#### 3.4.7.5 Center ballasts and corner loads DIN 15019



UW	480		(	Corner	distan	ce 8 n	n x 8 m	١				Jib le	nght	50 m
	under ook	Center ballasts	position		Crane in emome	ent: <b>240</b>		 Horizontal force	position o		ue mon	of serv nent: 0		
		_	diC	Α	В	С	D		ą	Α	В	С	D	호
[m]	[m]	[t]		[kN]	[kN]	[kN]	[kN]	[kN]		[kN]	[kN]	[kN]	[kN]	[kN]
15,3	16,0	0,0	1	221	333	221	110	27	1_	151	270	151	33	56
			2	300	300	142	142		2	235	235	67	67	
19,8	20,5	0,0	1	228	348	228	109	29	1	158	284	158	32	73
			2	313	313	144	144		2	249	249	157	157	
24,3	25,0	0,0	1	233	361	233	104	30	_1_	208	300	208	116	79
			2	324	324	142	142		2	273	273	143	143	
28,8	29,5	0,0	1	237	375	237	99	32	1	212	335	212	90	86
			2	335	335	140	140		2	299	299	126	126	
33,3	34,0	0,0	1	242	391	242	93	33	1	217	372	217	62	92
			2	347	347	137	137		2	327	327	107	107	
37,8	38,5	0,0	1	247	407	247	86	35	1	222	413	222	30	99
			2	360	360	133	133		2	357	357	86	86	
42,3	43,0	0,0	1	251	424	251	78	36	1	196	487	196	25	106
,-	.,-	-,-	2	373	373	129	129		2	389	389	63	63	
46,8	47,5	15,0	1	293	480	293	106	38	1	237	573	237	25	112
-,-	,-	-,-	2	426	426	161	161		2	462	462	74	74	
51,3	52,0	27,5	1	329	532	329	126	39	1	262	667	262	25	119
, -	,-	,-	2	472	472	186	186	1	2	531	531	77	77	
55,8	56,5	42.5	1	371	591	371	151	41	1	295	769	295	25	125
00,0	00,0	,	2	526	526	215	215	1	2	609	609	83	83	0
60,3	61,0	60,0	1	422	660	422	184	43	1	341	881	341	25	133
00,0	01,0	00,0	2	590	590	254	254		2	699	699	94	94	100
64,8	65,5	77,5	1	473	730	473	215	45	1	380	1005	380	25	142
04,0	00,0	''',5	2	655	655	291	291	1 70	2	794	794	101	101	172
69,3	70,0	97,5	1	530	808	530	251	47	1	427	1140	427	25	150
03,5	70,0	37,5	2	727	727	333	333	- 7'	2	899	899	110	110	130
73,8	74,5	120,0	1	594	894	594	294	49	1	485	1281	485	25	160
73,0	74,5	120,0	2	806	806	382	382	49	2	1013	1013	125	125	100
				800	800	302	302			1013	1013	123	123	
				l		L	<u> </u>	1	L			<u> </u>		

#### 3.4.7.6 Center ballasts and corner loads DIN 15019

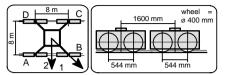
for a travelling tower crane on an undercarriage without climbing drive



UW	480			Corner	distan	ce 8 n	n x 8 m					Jib le	nght	55 m
	t under ook	Center ballasts	Jib position		Crane in	ent: <b>240</b>		Horizontal force	position		ue mon	of serv		Horizontal force
-Je	¥	ent	<u>a</u>		Corne			oriz	dic			r loads		oriz
[m]	[m]	[t]		A [kN]	<b>B</b> [kN]	C [kN]	D [kN]	Ĭ [kN]	,	A [kN]	B [kN]	C [kN]	<b>D</b> [kN]	ゴ [kN]
15,3	16,0	0,0	1	229	334	229	124	27	_1	135	316	135	25	57
			2	303	303	155	155		2	256	256	50	50	
19,8	20,5	0,0	1	236	349	236	123	29	1	141	332	141	25	73
			2	316	316	156	156		2	268	268	51	51	
24,3	25,0	0,0	1	241	363	241	119	30	1	143	347	143	25	80
			2	327	327	154	154		2	288	288	143	143	
28,8	29,5	0,0	1	245	377	245	114	32	_1	143	364	143	25	87
			2	338	338	152	152		2	314	314	126	126	
33,3	34,0	0,0	1	250	392	250	107	33	1	225	391	225	58	93
			2	350	350	149	149		2	342	342	107	107	
37,8	38,5	0,0	1	254	408	254	100	35	1	229	432	229	26	100
,	,		2	363	363	145	145		2	373	373	86	86	
42,3	43,0	2,5	1	265	432	265	98	37	1	212	511	212	25	106
		, i	2	383	383	147	147		2	412	412	68	68	
46,8	47,5	15,0	1	301	482	301	120	38	1	240	599	240	25	113
		, i	2	429	429	173	173		2	479	479	73	73	
51,3	52,0	30,0	1	343	540	343	146	40	1	276	695	276	25	120
	,	,	2	482	482	204	204		2	555	555	81	81	
55,8	56,5	45,0	1	385	599	385	171	41	1	308	799	308	25	126
			2	537	537	233	233		2	634	634	86	86	
60,3	61,0	62,5	1	436	668	436	204	43	1	353	913	353	25	134
			2	600	600	272	272		2	725	725	97	97	
64,8	65,5	80,0	1	487	739	487	235	45	1	391	1040	391	25	143
	,	,	2	665	665	308	308		2	820	820	103	103	
69,3	70,0	100,0	1	544	817	544	270	47	1	436	1177	436	25	151
			2	737	737	350	350		2	926	926	111	111	
73,8	74,5	122,5	1	608	903	608	313	49	1	493	1321	493	25	161
	<u> </u>		2	817	817	399	399		2	1041	1041	125	125	

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#### 3.4.7.7 Center ballasts and corner loads DIN 15019



UW	480	Corner distance 8 m x 8 m								Jib lenght 60 m					
height under hook		Center ballasts	p position	Crane in service torque moment: <b>240</b> kNm				Horizontal force	p position	Crane out of service torque moment: 0 kNm				Horizontal force	
[m]	[m]	Č H	diL	A [kN]	B [kN]	C [kN]	D [kN]	훈 [kN]	diC	A [kN]	B [kN]	C [kN]	D [kN]	[kN]	
15,3	16,0	0,0	1	235	341	235	129	27	1	148	333	148	25	57	
			2	310	310	160	160		2	272	272	54	54		
19,8	20,5	0,0	1	242	356	242	128	29	1	154	348	154	25	74	
			2	323	323	161	161		2	286	286	153	153		
24,3	25,0	0,0	1	247	370	247	123	30	1_	155	364	155	25	80	
			2	334	334	160	160		2	311	311	138	138		
28,8	29,5	0,0	1	251	384	251	118	32	1_	229	382	229	76	87	
			2	345	345	157	157		2	337	337	120	120		
33,3	34,0	0,0	1	256	399	256	112	33	1_	233	420	233	46	94	
			2	357	357	154	154		2	365	365	101	101		
37,8	38,5	0,0	1	260	415	260	105	35	1	226	473	226	25	100	
			2	370	370	151	151		2	396	396	79	79		
42,3	43,0	5,0	1	277	445	277	109	36	1	220	555	220	25	107	
			2	396	396	158	158		2	442	442	67	67		
46,8	47,5	17,5	_1	313	495	313	131	38	1	247	644	247	25	113	
			2	442	442	184	184		2	509	509	72	72		
51,3	52,0	32,5	1	355	553	355	157	39	1	282	742	282	25	120	
			2	495	495	215	215		2	586	586	79	79		
55,8	56,5	50,0	1	403	619	403	188	41	1	325	848	325	25	126	
			2	556	556	251	251		2	672	672	90	90		
60,3	61,0	65,0	1	448	682	448	214	43	1	356	965	356	25	134	
			2	613	613	283	283		2	758	758	93	93		
64,8	65,5	85,0	1	505	759	505	252	45	1	406	1094	406	25	143	
	,	, í	2	684	684	326	326		2	860	860	105	105		
69,3	70,0	105,0	1	562	838	562	287	47	1	449	1235	449	25	152	
			2	757	757	367	367		2	967	967	112	112		
73,8	74,5	127,5	1	626	923	626	329	49	1	505	1380	505	25	161	
			2	836	836	416	416		2	1083	1083	125	125		
										-					
									L						