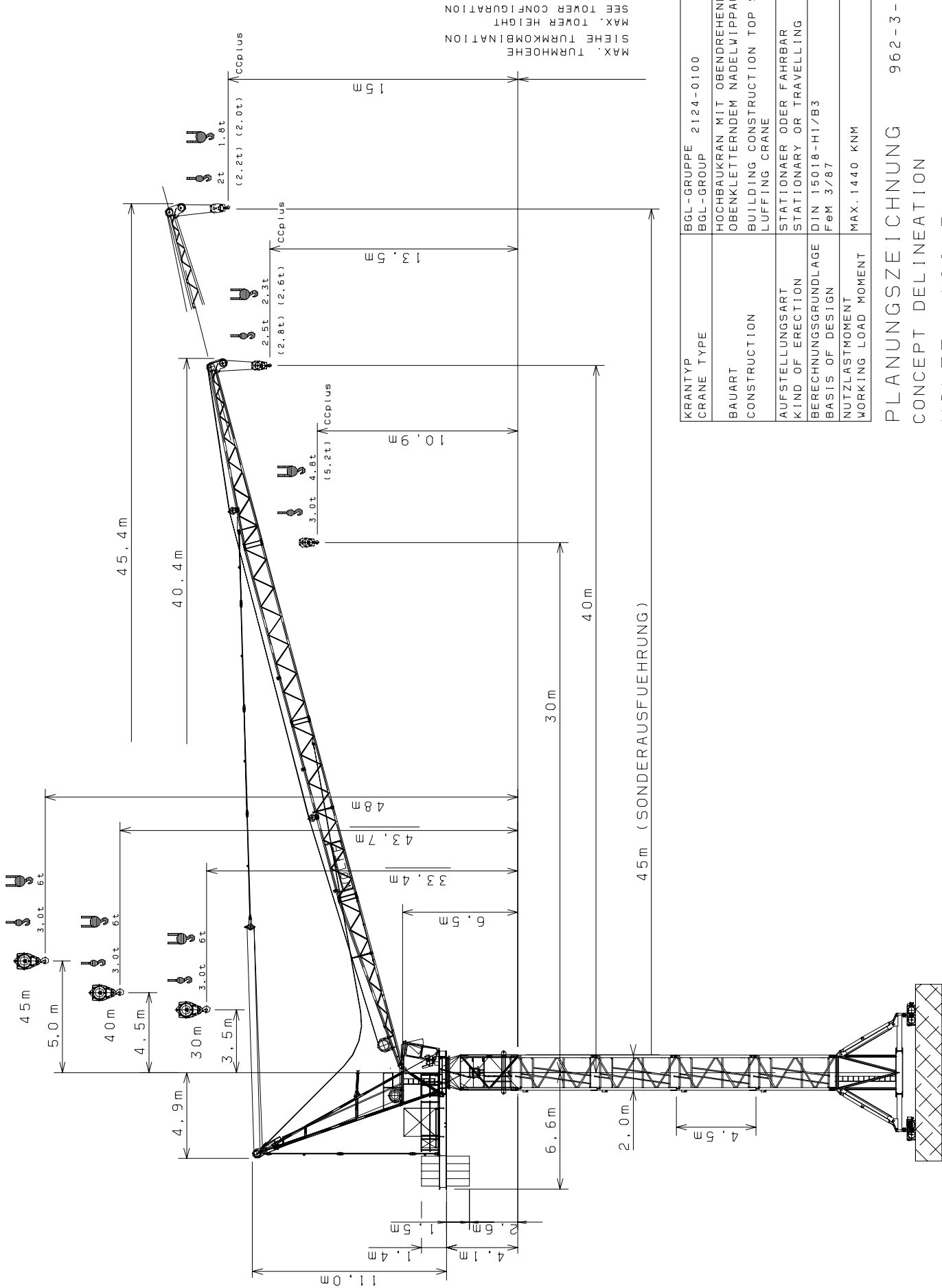


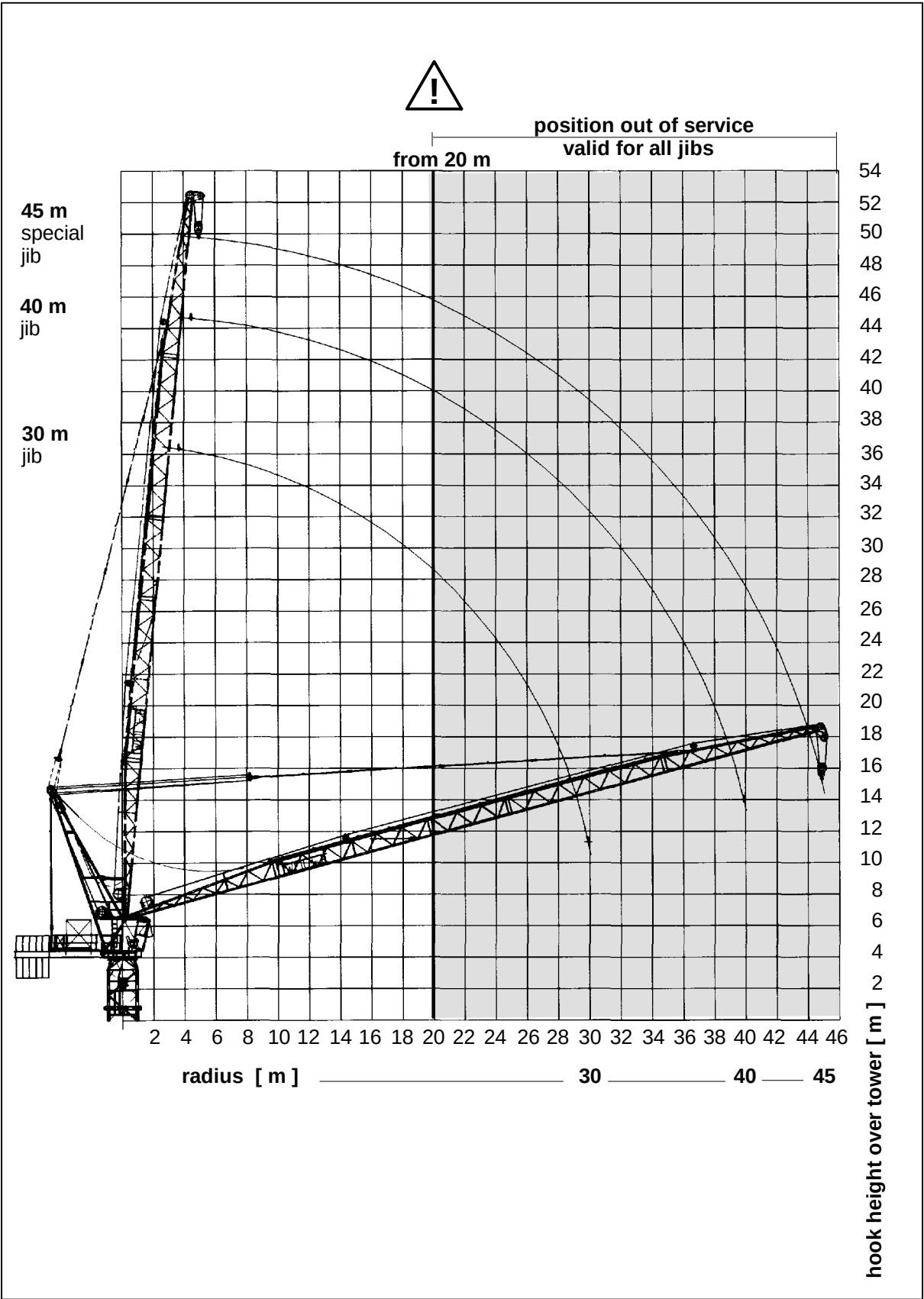


KRANTYP CRANE TYPE	BGL-GRUPPE 2124-0100 BGL-GROUP
BAUART CONSTRUCTION	HOCHBAUKRAN MIT OBENDREHENDEM UND OBENKLETTERNDEM NADELWIPPAUSLEGER BUILDING CONSTRUCTION TOP SLEWING LUFFING CRANE
AUFSTELLUNGSART KIND OF ERECTION	STATIONÄR ODER FAHRBAR STATIONARY OR TRAVELLING
BERECHNUNGSGRUNDLAGE BASIS OF DESIGN	DIN 15018-H1/B3 Fem 3/87
NUTZLASTMOMENT WORKING LOAD MOMENT	MAX. 1440 KNM

PLANUNGSZEICHNUNG 962-3-022679
CONCEPT DELINEATION
WOLFF 100 B

2.1.2

Hook positions



2.2.1.1 Load capacity table

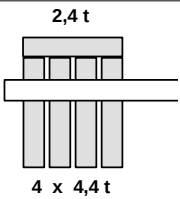
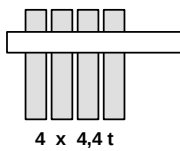
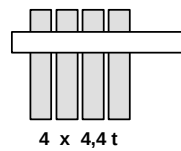
radius [m]			20	25	30	35	40	45		
length of jib[m]	45	5,0 – 19,0	 6,0	5,6	4,3	3,3	2,7	2,2	1,8	load capacity [t]
	40	4,5 – 22,0		6,0	5,0	3,8	3,0	2,3		
	30	3,5 – 24,0		6,0	5,8	4,8				

radius [m]			20	25	30	35	40	45	load capacity [t]	
length of jib[m]	45	5,0 - 32,5	 3,0	3,0	3,0	3,0	2,8	2,3		2,0
	40	4,5 - 34,5		3,0	3,0	3,0	3,0	2,5		
	30	3,5 - 30,0		3,0	3,0	3,0				

The load capacities refer to a height of tower of 40, 5 m. With greater tower heights the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,36 kg per meter hook path, with 1 fall operation = 1,18 kg per meter hook path).

Arrangement of counterweights

W 637 FU

special jib [m]	jib [m]	
45	40	30
 2,4 t 4 x 4,4 t to tower →	 4 x 4,4 t to tower →	 4 x 4,4 t to tower →
20,0	17,6	17,6
total weight [t]		

2.2.1.2 Load capacity table

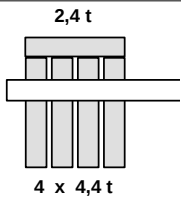
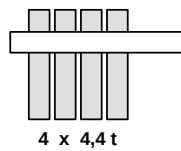
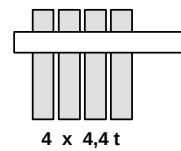
radius [m]			20	25	30	35	40	45	load capacity [t]
length of jib [m]	45	5,0 - 20,2	6,0	4,6	3,7	3,0	2,4	2,0	
	40	4,5 - 23,1	6,0	5,4	4,2	3,3	2,6		
	30	3,5 - 26,0	6,0	6,0	5,2				

radius [m]			20	25	30	35	40	45	load capacity [t]	
length of jib [m]	45	5,0 - 37,2	3,0	3,0	3,0	3,0	3,0	2,7		2,2
	40	4,5 - 38,2		3,0	3,0	3,0	3,0	2,8		
	30	3,5 - 30,0		3,0	3,0	3,0				

The load capacities refer to a height of tower of 40, 5 m. With greater tower heights the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,36 kg per meter hook path, with 1 fall operation = 1,18 kg per meter hook path).

Arrangement of counterweights

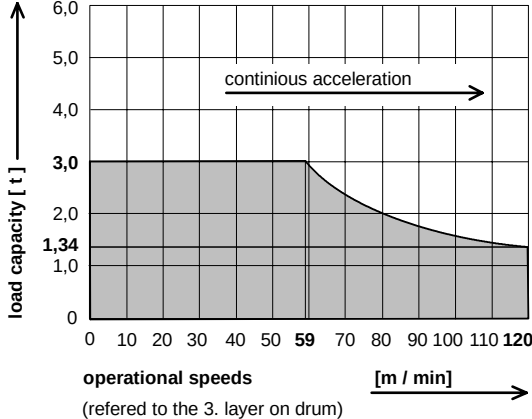
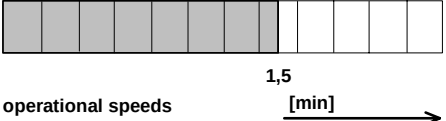
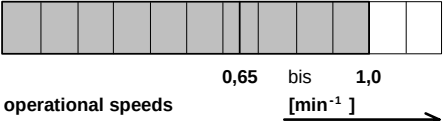
W 637 FU

special jib [m]	jib [m]	
45	40	30
 2,4 t 4 x 4,4 t to tower →	 4 x 4,4 t to tower →	 4 x 4,4 t to tower →
20,0	17,6	17,6
total weight [t]		

2.2.2.1

Operational speeds

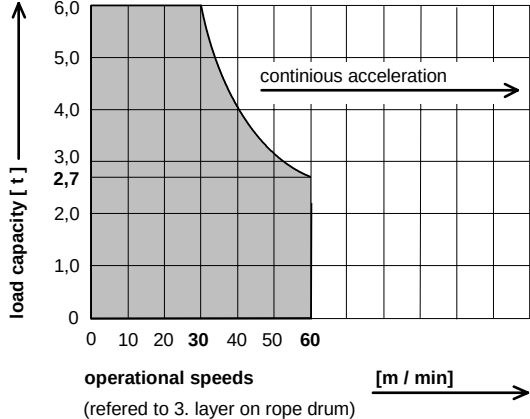
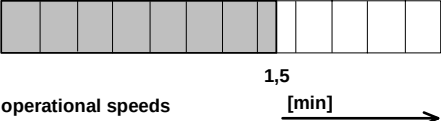
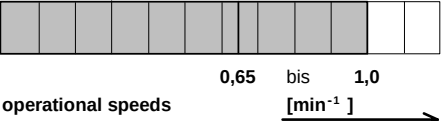
400 V, 50 Hz

drive [Typ]	operational speeds load capacity [1 fall operation]	max. lift [m]	output [kW]	total output [kVA]
W 637 FU	hoisting 	380	37	70,0 total output for a simultaneity factor of 0,8
	 load capacity [t] operational speeds [m / min] (referred to the 3. layer on drum)			
W 637 FU	jib UP - DOWN		37	
	 operational speeds [min]			
Dw	slewing		6	
	 operational speeds [min⁻¹]			

2.2.2.2

Operational speeds

400 V, 50 Hz

drive [Typ]	operational speeds load capacity [2 fall operation]	max. lift [m]	output [kW]	total output [kVA]
W 637 FU	hoisting 	190	37	70,0 total output for a simultaneity factor of 0,8
	 load capacity [t] operational speeds [m / min] (referred to 3. layer on rope drum)			
W 637 FU	jib UP - DOWN		37	
	 operational speeds [min]			
Dw	slewing		6	
	 operational speeds [min⁻¹]			

2.2.3.1 Load capacity [kg] for 1 fall operation

DIN 15018 / H1 - B3

radius [m]	length of jib [m]			
	30	40	45	
20,0	3000	3000	3000	
21,0	3000	3000	3000	
22,0	3000	3000	3000	
23,0	3000	3000	3000	
24,0	3000	3000	3000	
25,0	3000	3000	3000	
26,0	3000	3000	3000	
27,0	3000	3000	3000	
28,0	3000	3000	3000	
29,0	3000	3000	3000	
30,0	3000	3000	3000	
31,0		3000	3000	
32,0		3000	3000	
33,0		3000	3000	
34,0		3000	2950	
35,0		3000	2800	
36,0		3000	2680	
37,0		2870	2570	
38,0		2740	2470	
39,0		2620	2380	
40,0		2500	2300	
41,0			2220	
42,0			2150	
43,0			2090	
44,0			2040	
45,0			2000	

The load capacity refer to a height of tower of 45,0 m.
With greater heights of tower the safe working load will be minimized by the additional weight of the hoisting cable = 1,8 kg per meter.

2.2.3.2 Load capacity [kg] for 1 fall operation

DIN 15018 / H1 - B3

radius [m]	length of jib [m]			
	30	40	45	
20,0	3000	3000	3000	
21,0	3000	3000	3000	
22,0	3000	3000	3000	
23,0	3000	3000	3000	
24,0	3000	3000	3000	
25,0	3000	3000	3000	
26,0	3000	3000	3000	
27,0	3000	3000	3000	
28,0	3000	3000	3000	
29,0	3000	3000	3000	
30,0	3000	3000	3000	
31,0		3000	3000	
32,0		3000	3000	
33,0		3000	3000	
34,0		3000	3000	
35,0		3000	3000	
36,0		3000	3000	
37,0		3000	3000	
38,0		3000	2910	
39,0		2920	2800	
40,0		2800	2700	
41,0			2600	
42,0			2500	
43,0			2420	
44,0			2330	
45,0			2200	

The load capacity refer to a height of tower of 45,0 m.
With greater heights of tower the safe working load will be minimized by the additional weight of the hoisting cable = 1,8 kg per meter.

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

radius [m]	length of jib [m]			
	30	40	45	
20,0	6000	6000	5600	
21,0	6000	6000	5310	
22,0	6000	6000	5010	
23,0	6000	5640	4740	
24,0	6000	5310	4490	
25,0	5800	5000	4300	
26,0	5540	4740	4040	
27,0	5330	4480	3850	
28,0	5140	4240	3660	
29,0	4970	4020	3490	
30,0	4800	3800	3300	
31,0		3610	3190	
32,0		3430	3050	
33,0		3260	2920	
34,0		3100	2790	
35,0		3000	2700	
36,0		2800	2570	
37,0		2670	2460	
38,0		2540	2370	
39,0		2420	2270	
40,0		2300	2200	
41,0			2100	
42,0			2020	
43,0			1940	
44,0			1870	
45,0			1800	

The load capacity refer to height of tower of 45,0 m.
With greater heights of tower the safe working load will be minimized by the additional weight of the hoisting cable = 2,36 kg per meter.

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

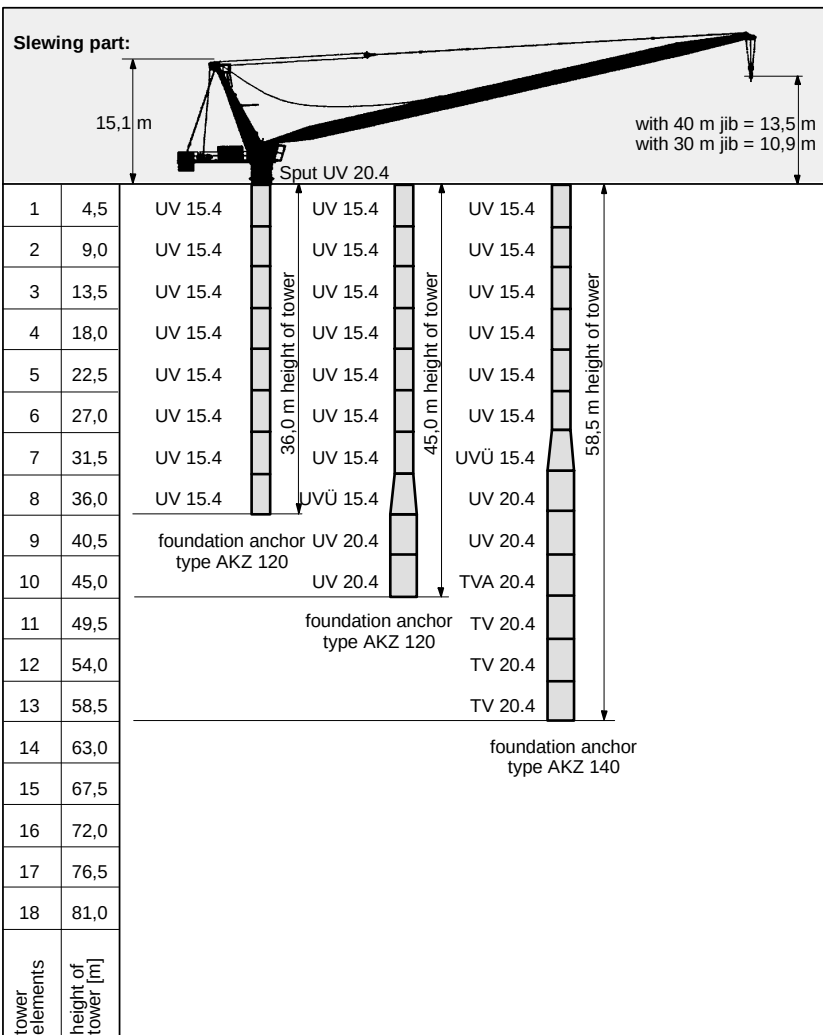
radius [m]	length of jib [m]			
	30	40	45	
20,0	6000	6000	6000	
21,0	6000	6000	5730	
22,0	6000	6000	5410	
23,0	6000	6000	5130	
24,0	6000	5700	4870	
25,0	6000	5400	4600	
26,0	6000	5110	4400	
27,0	5790	4840	4200	
28,0	5590	4600	4000	
29,0	5410	4370	3830	
30,0	5200	4200	3700	
31,0		3960	3500	
32,0		3780	3360	
33,0		3600	3220	
34,0		3440	3090	
35,0		3300	3000	
36,0		3130	2850	
37,0		3000	2750	
38,0		2860	2640	
39,0		2740	2550	
40,0		2600	2400	
41,0			2360	
42,0			2280	
43,0			2200	
44,0			2120	
45,0			2000	

The load capacity refer to height of tower of 45,0 m.
With greater heights of tower the safe working load will be minimized by the additional weight of the hoisting cable = 2,36 kg per meter.

2.2.6.1 Tower configuration

Jib 30 m and 40 m

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



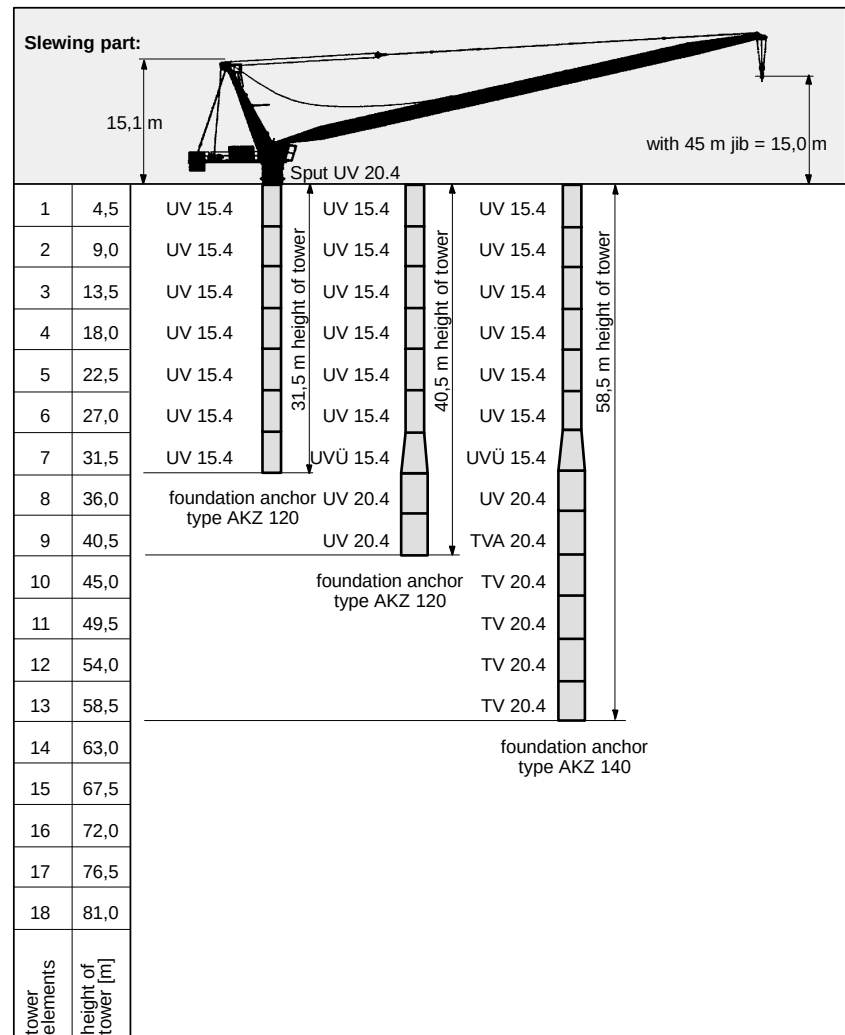
For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.6.2 Tower configuration

Jib 45 m

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



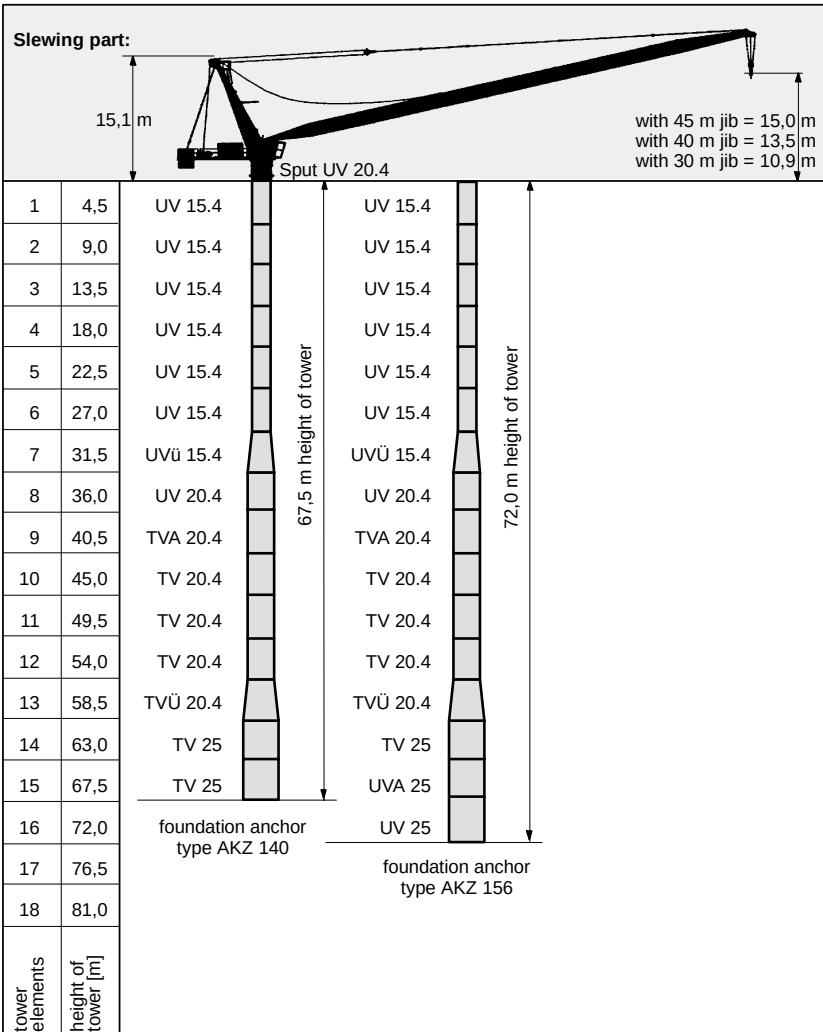
For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.6.3 Tower configuration

Jib 30 m to 45 m

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



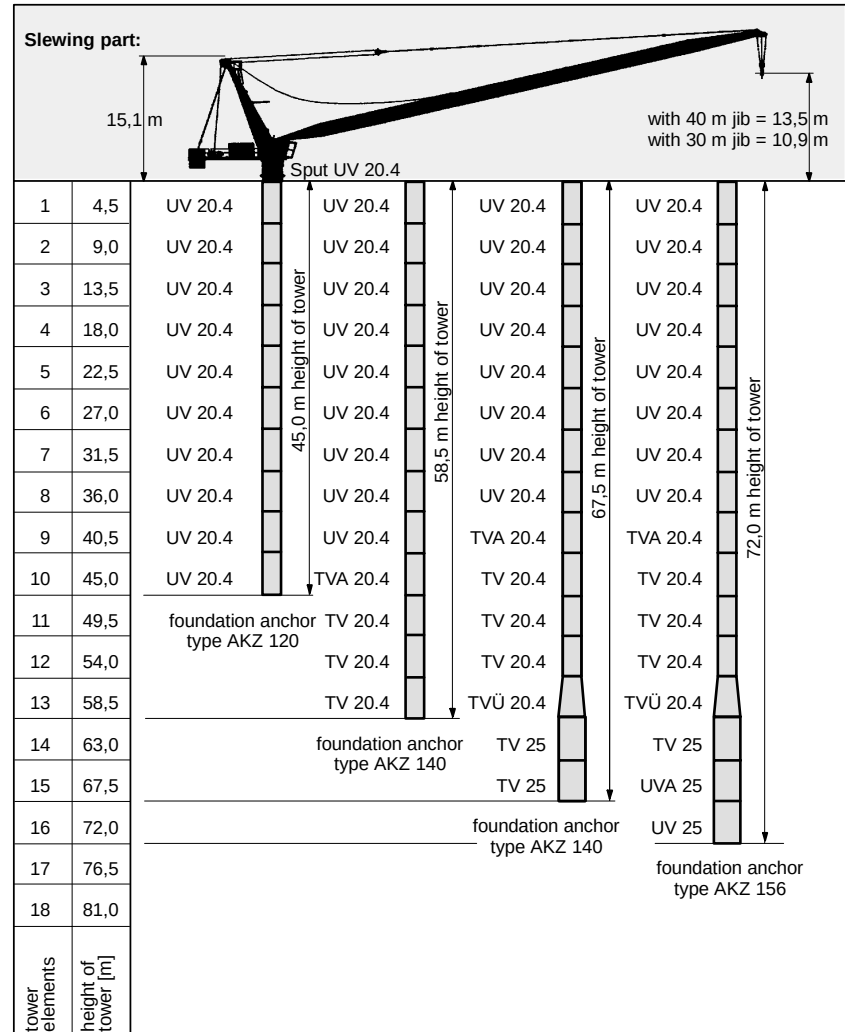
For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.6.4 Tower configuration

Jib 30 m to 40 m

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



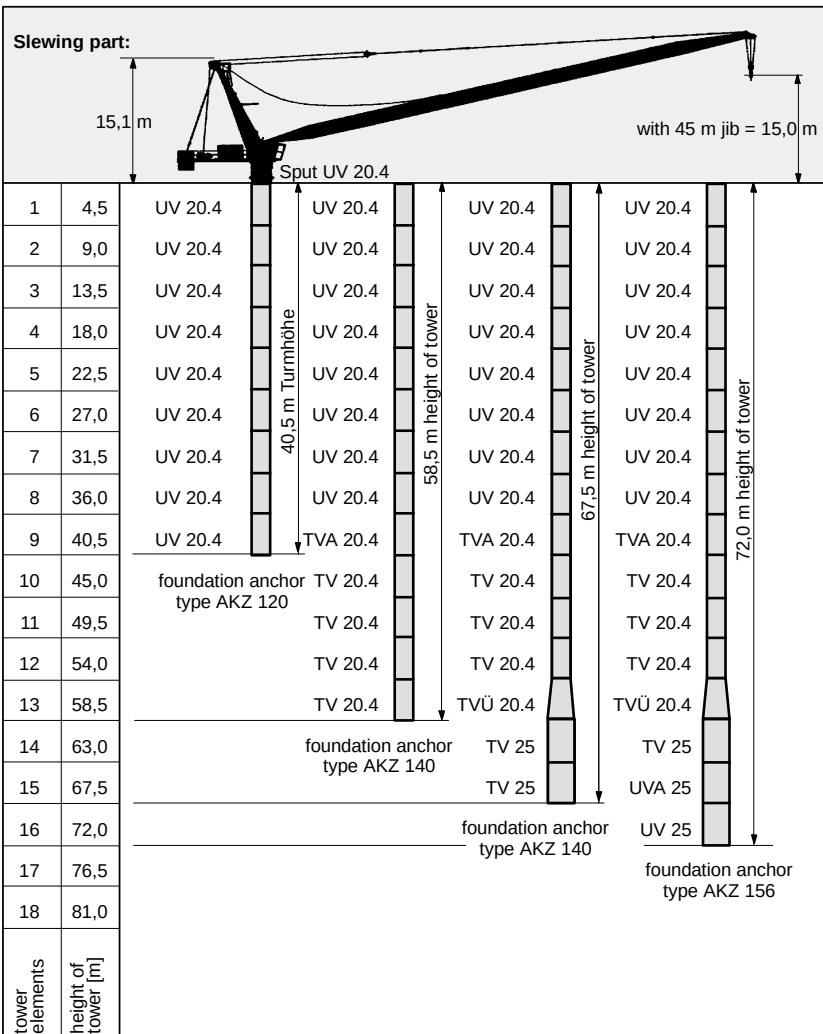
For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.6.5 Tower configuration

Jib 45 m

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



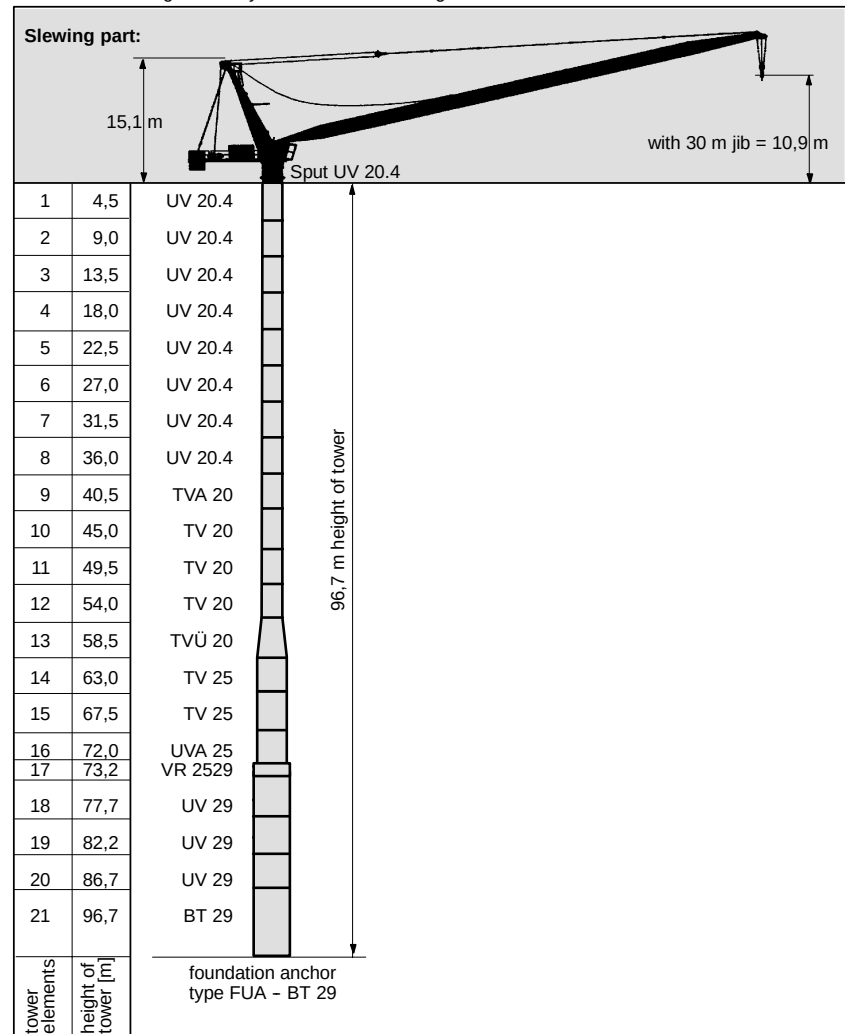
For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.6.6 Tower configuration

Jib 30 m

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

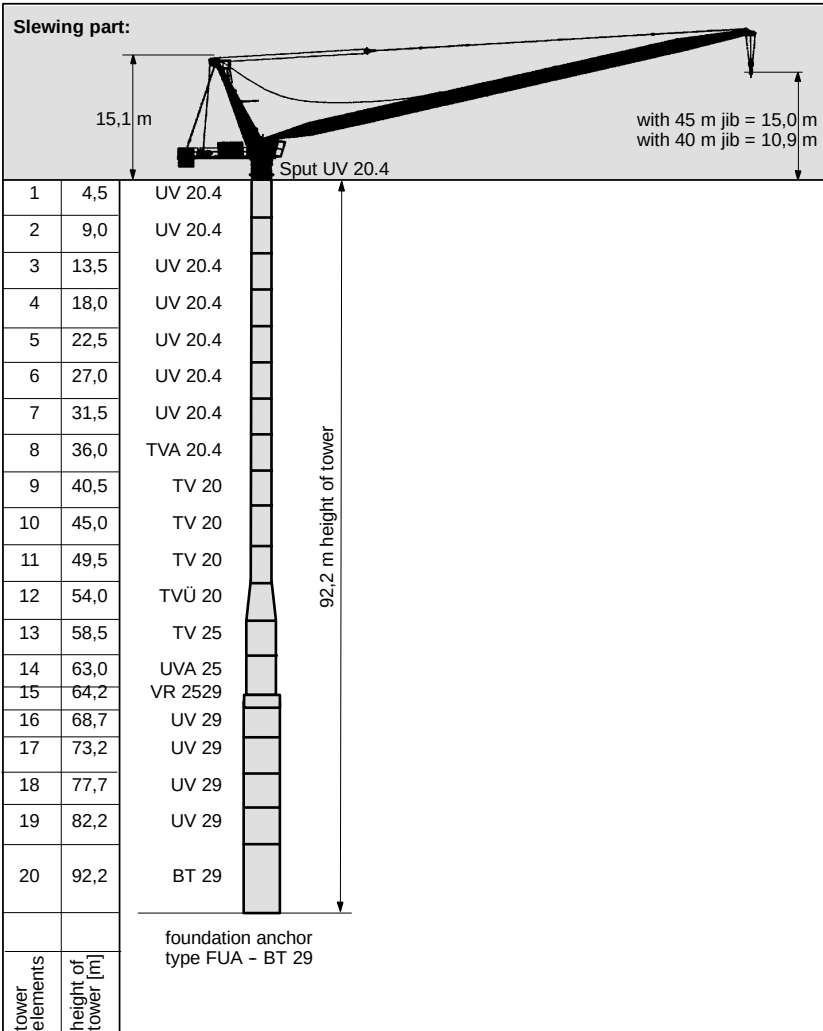


For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.6.7 Tower configuration jib 40 m and 45 m

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

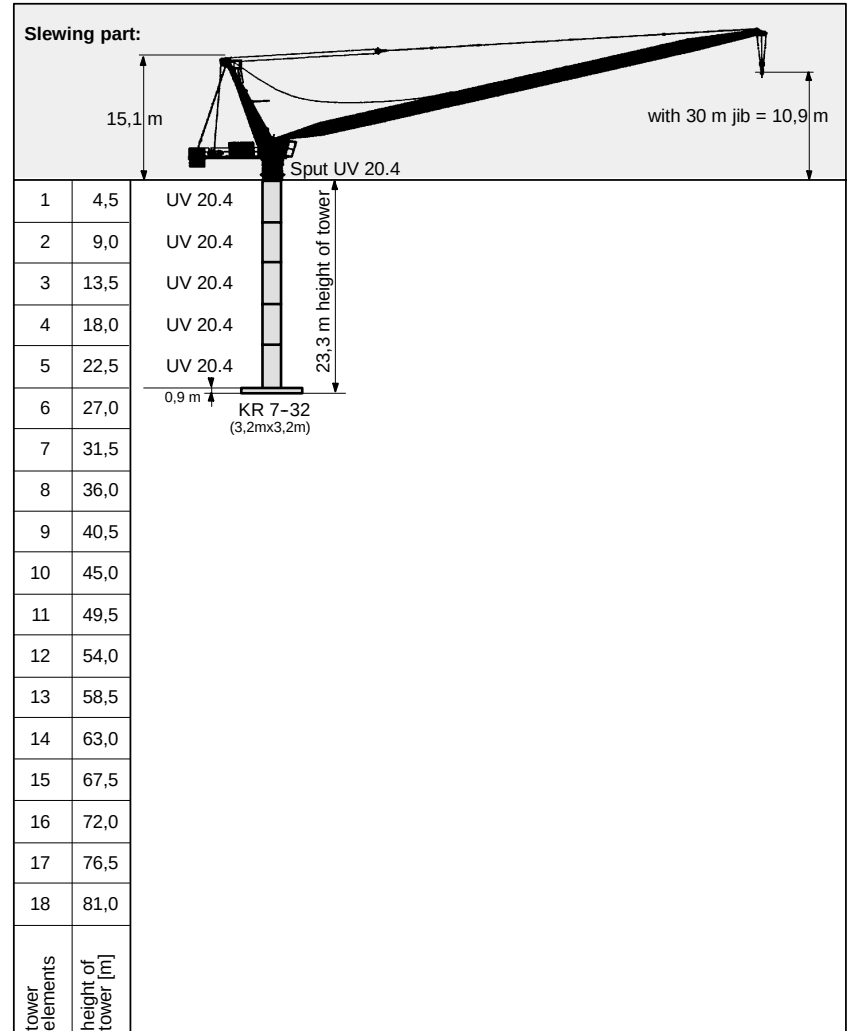


For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.7.1 Tower configurations Jib 30 m

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

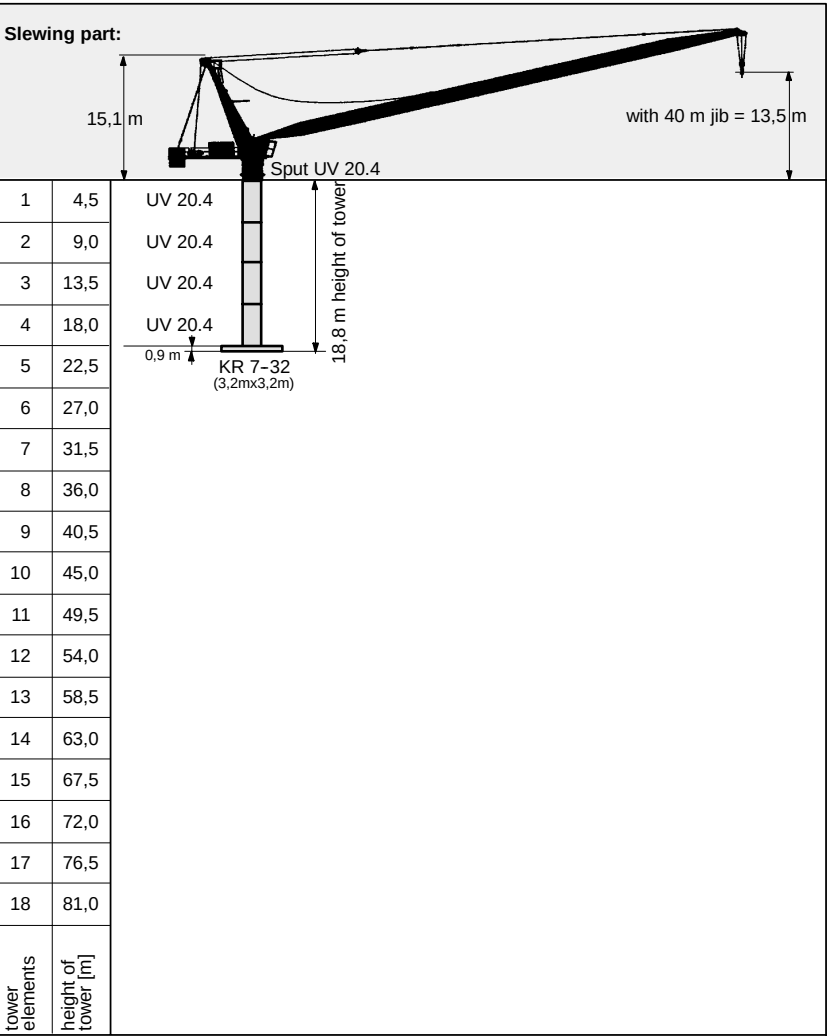


For data regarding cross frames see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.7.2 Tower configurations Jib 40 m

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

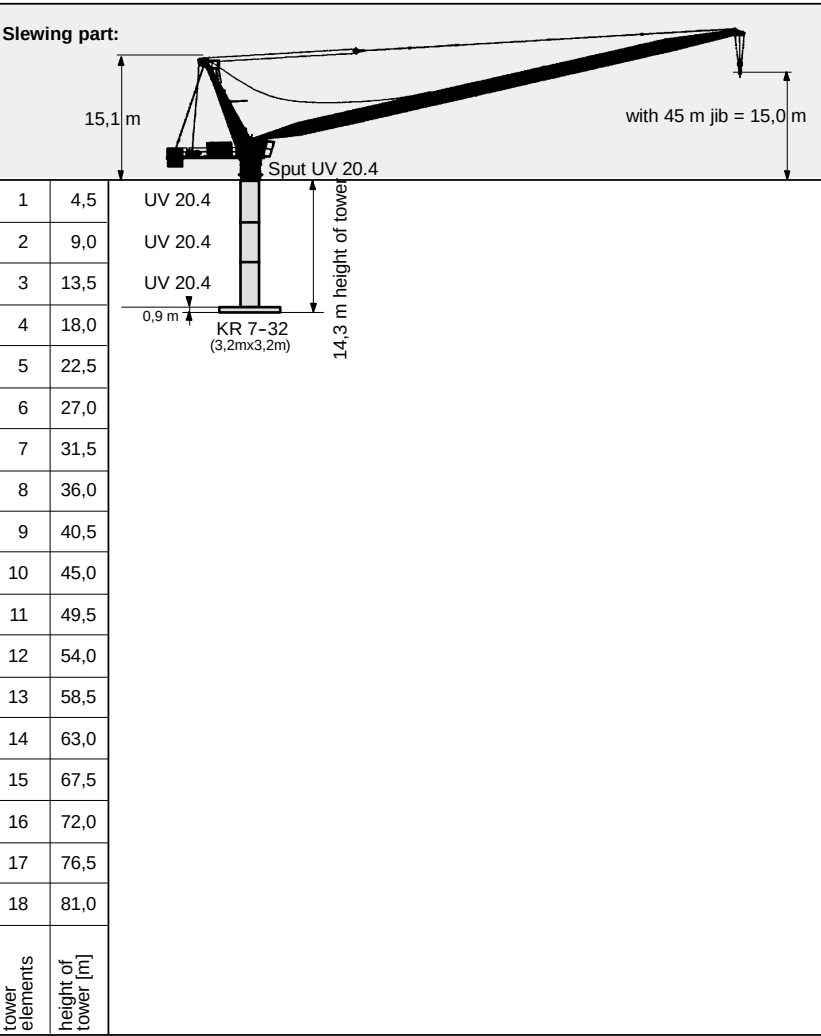


For data regarding cross frames see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.7.3 Tower configurations Jib 45 m

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.

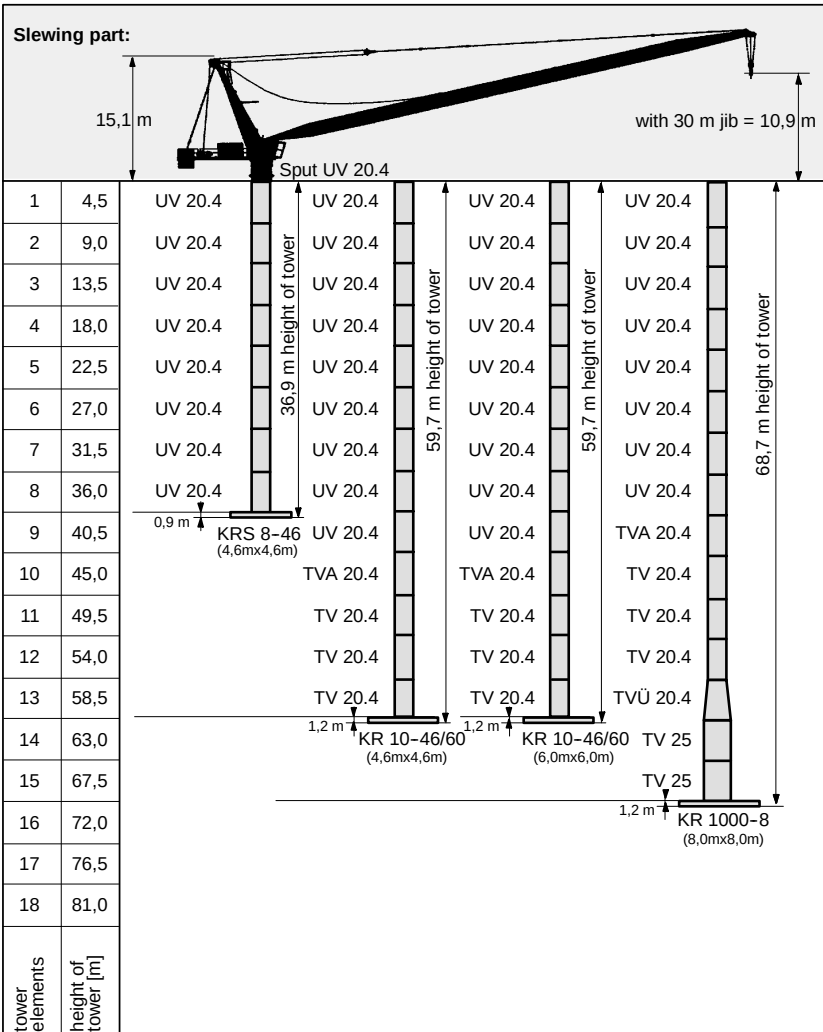
Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

2.2.7.4

Tower configurations

Jib 30 m

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.

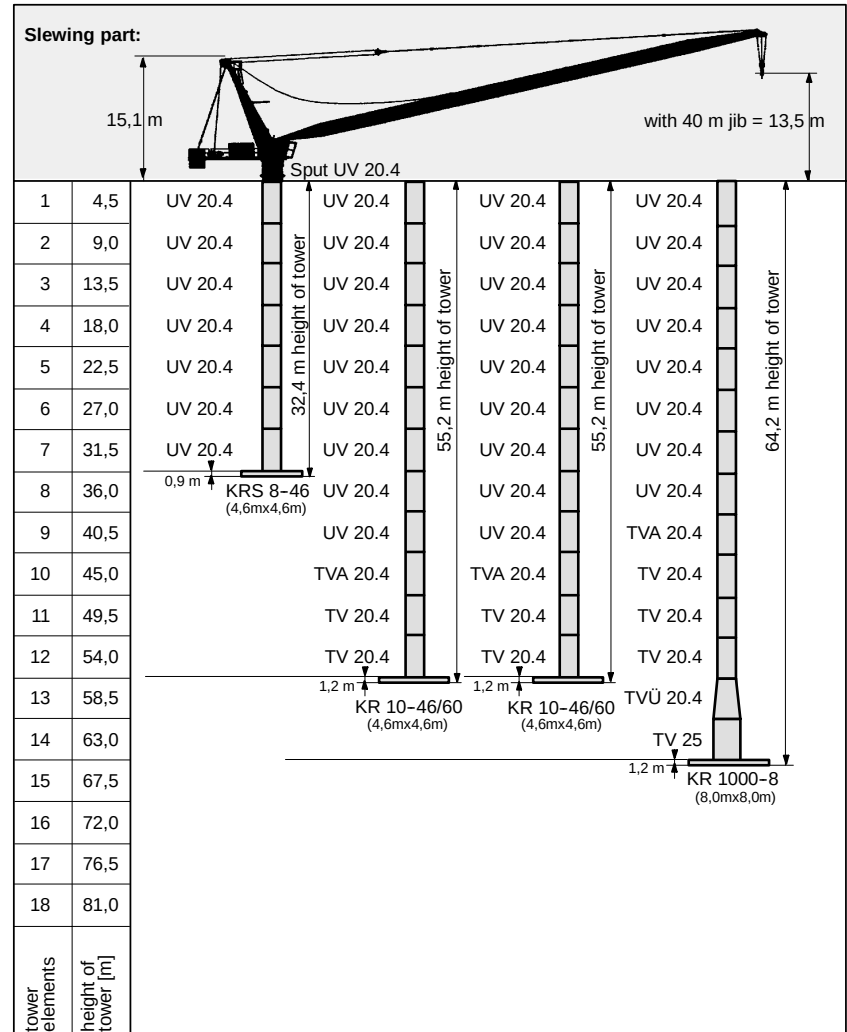
Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

2.2.7.5

Tower configurations

Jib 40 m

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.

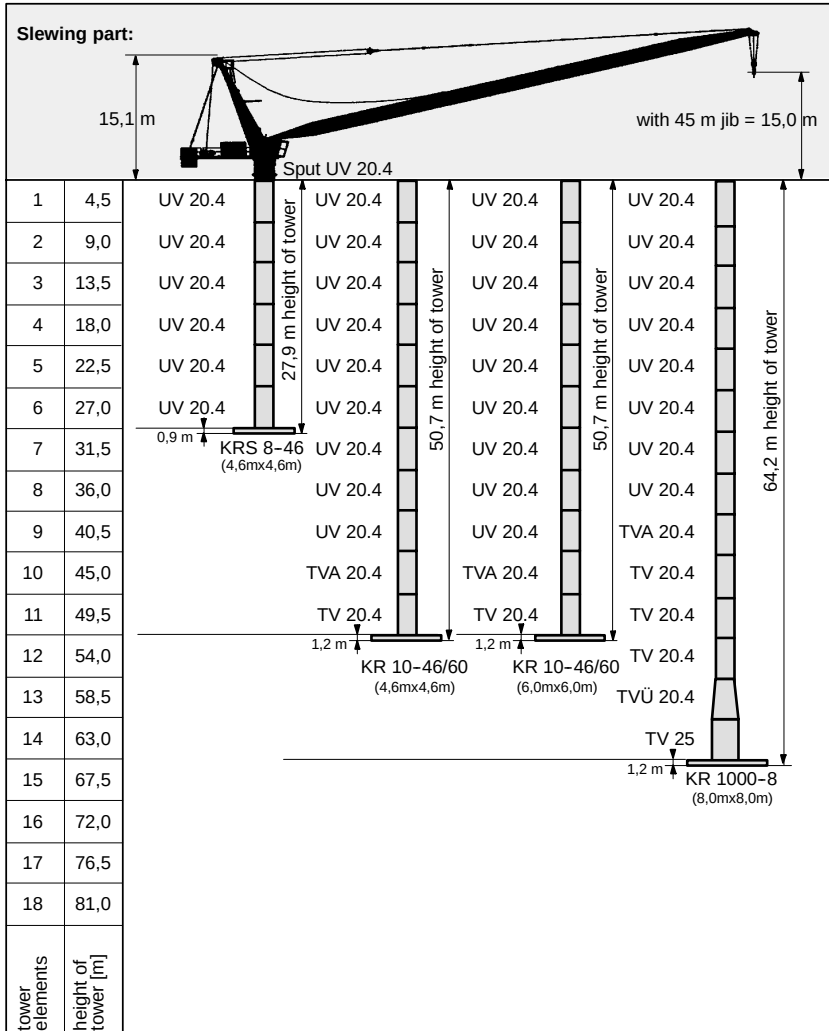
Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

2.2.7.6

Tower configurations

Jib 45 m

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.

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.

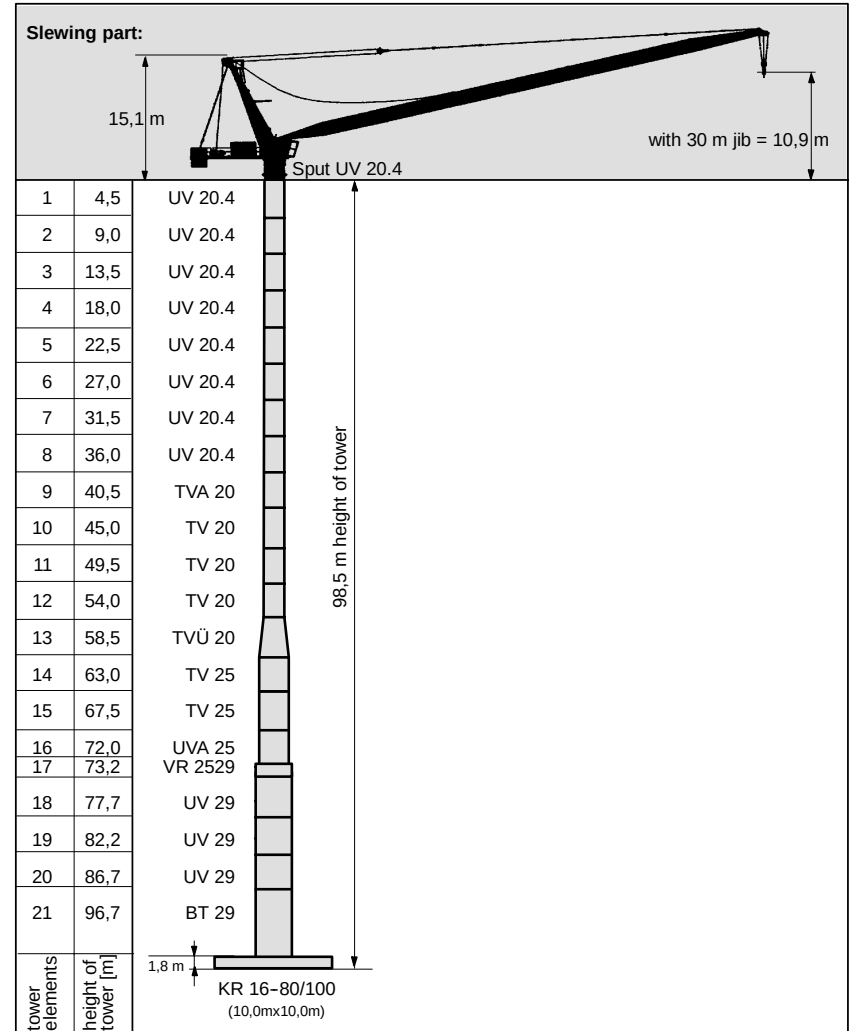
962-4-024665E

2.2.7.7

Tower configuration

Jib 30 m

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



For data regarding cross frames see section 12.

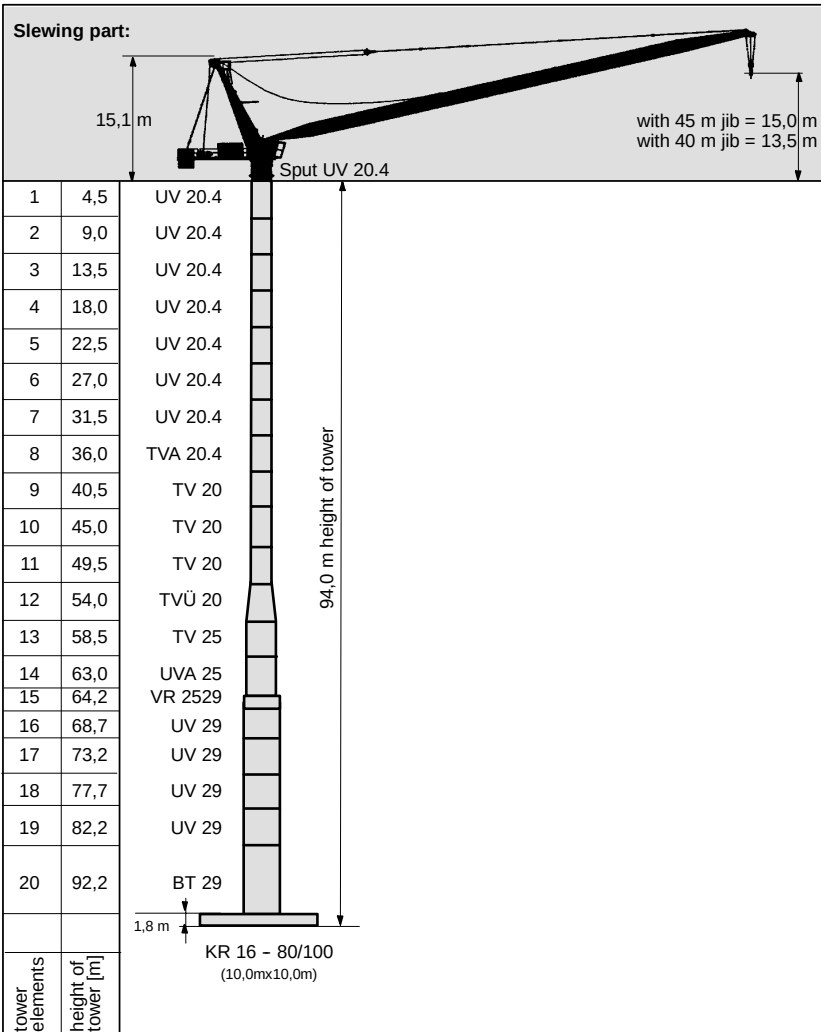
The tower configurations are recommended for economic crane installation.

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.

962-4-027084E

2.2.7.8 Tower configuration Jib 40 m and 45 m

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

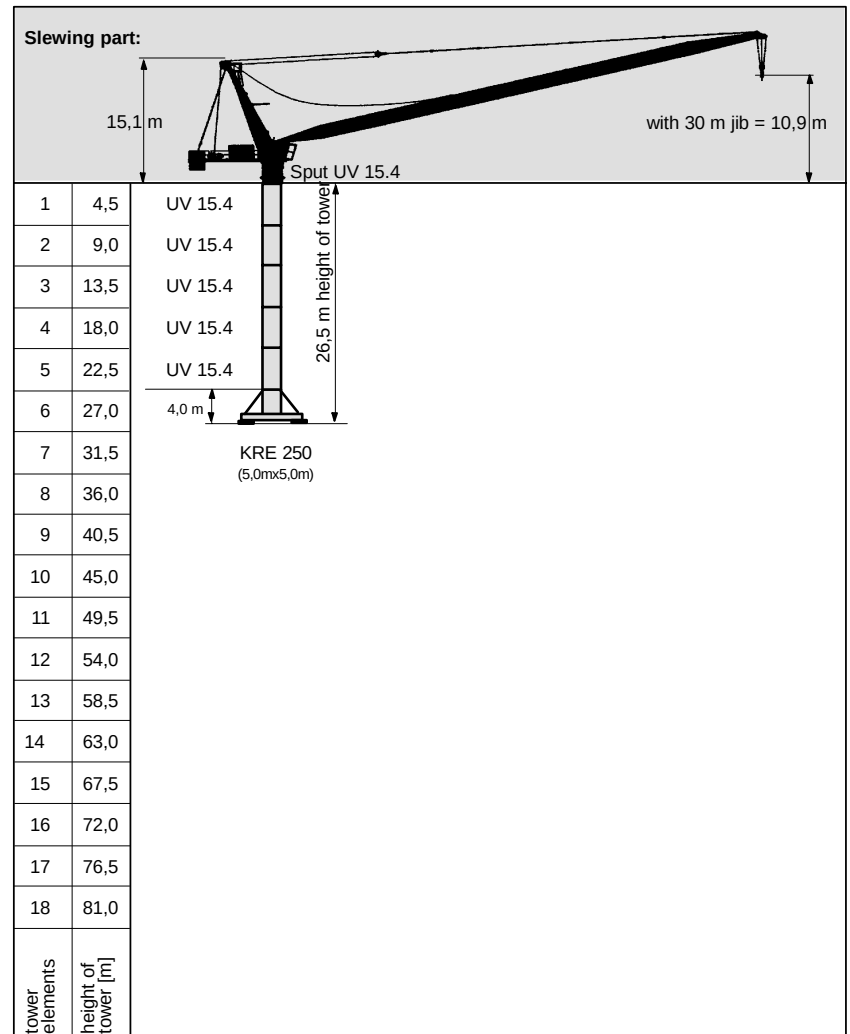


For data regarding cross frames see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.8.1 Tower configuration Jib 30 m

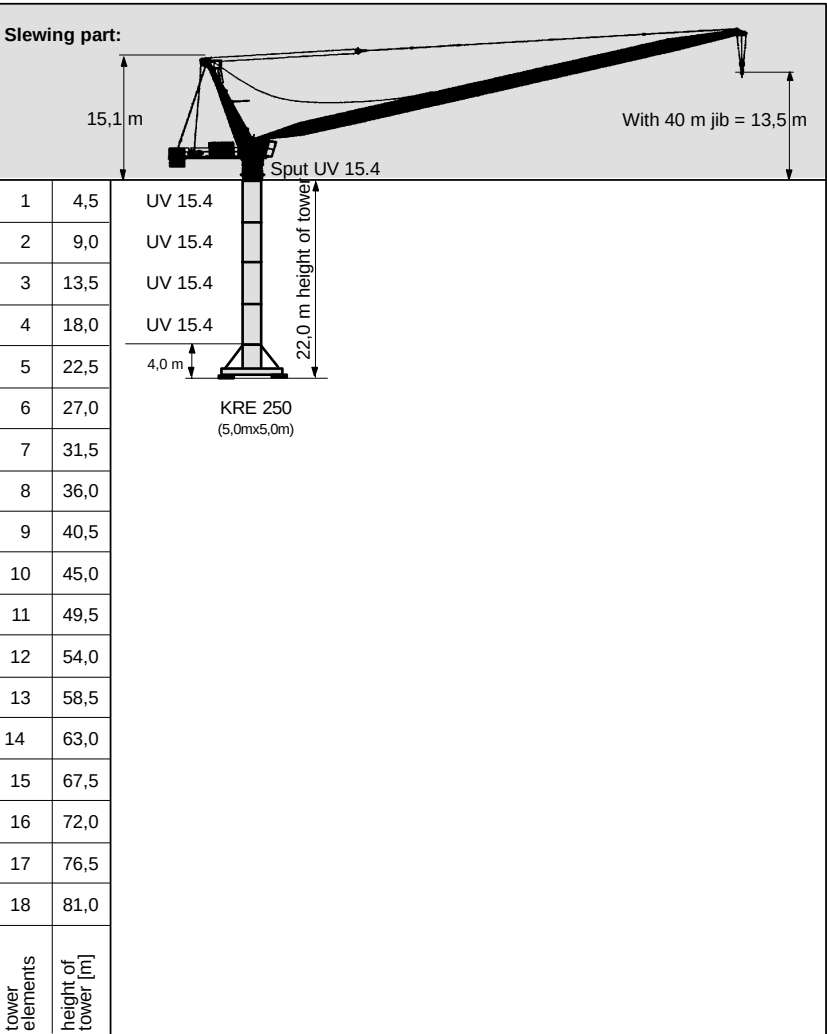
for a free standing stationary crane without climbing device on a cross frame element.



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.

2.2.8.2 Tower configuration Jib 40 m

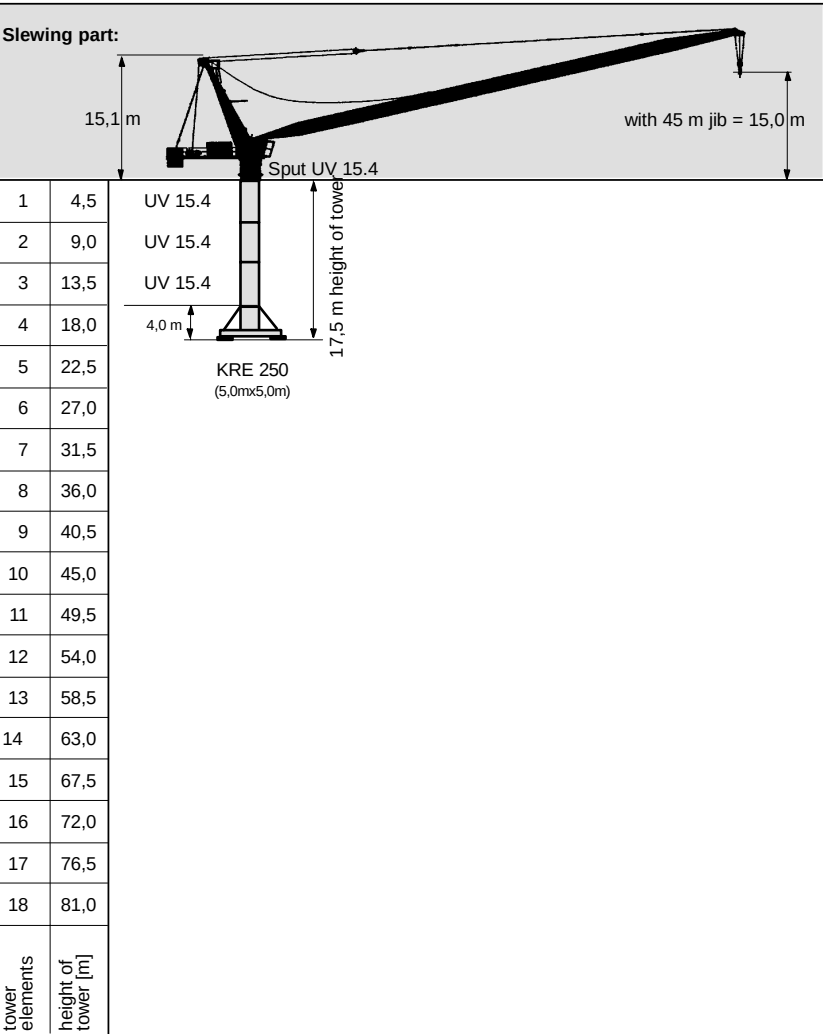
for a free standing stationary crane without climbing device on a cross frame element.



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.

2.2.8.3 Tower configuration Jib 45 m

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

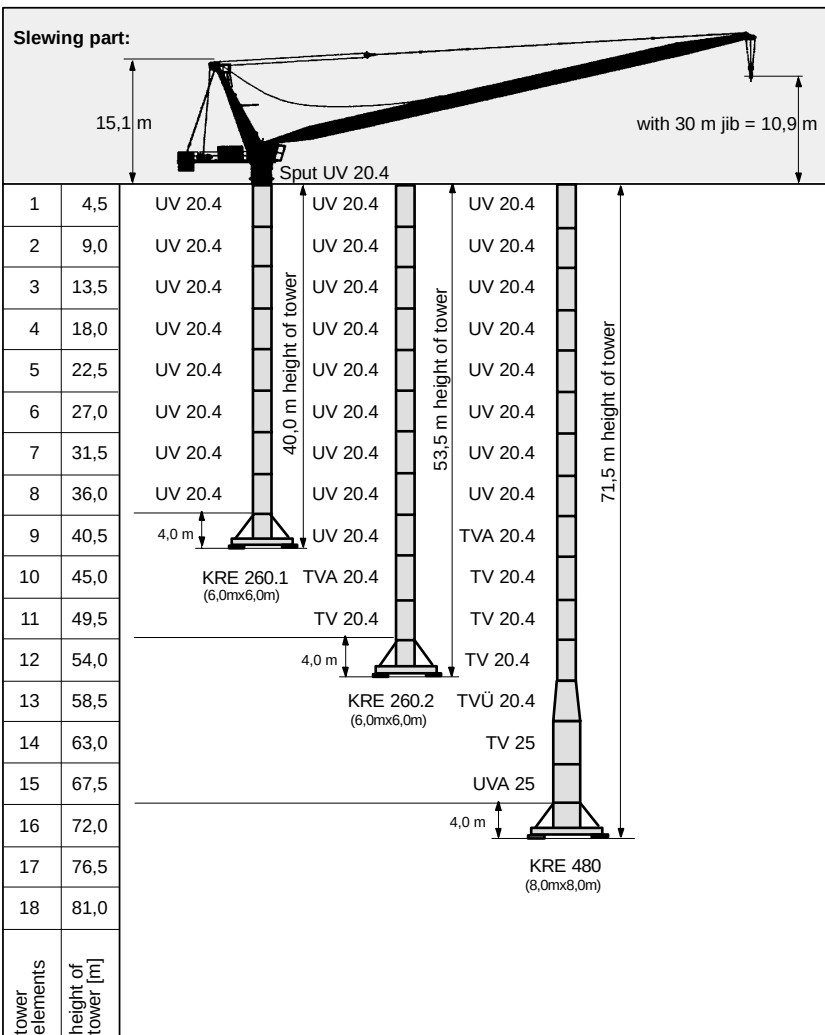


For data regarding cross frame elements see section 12.
The tower configurations are recommended for economic crane installation and may be used in any case.
Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation starts.

2.2.8.4 Tower configurations

Jib 30 m

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



For data regarding cross frame elements see section 12.

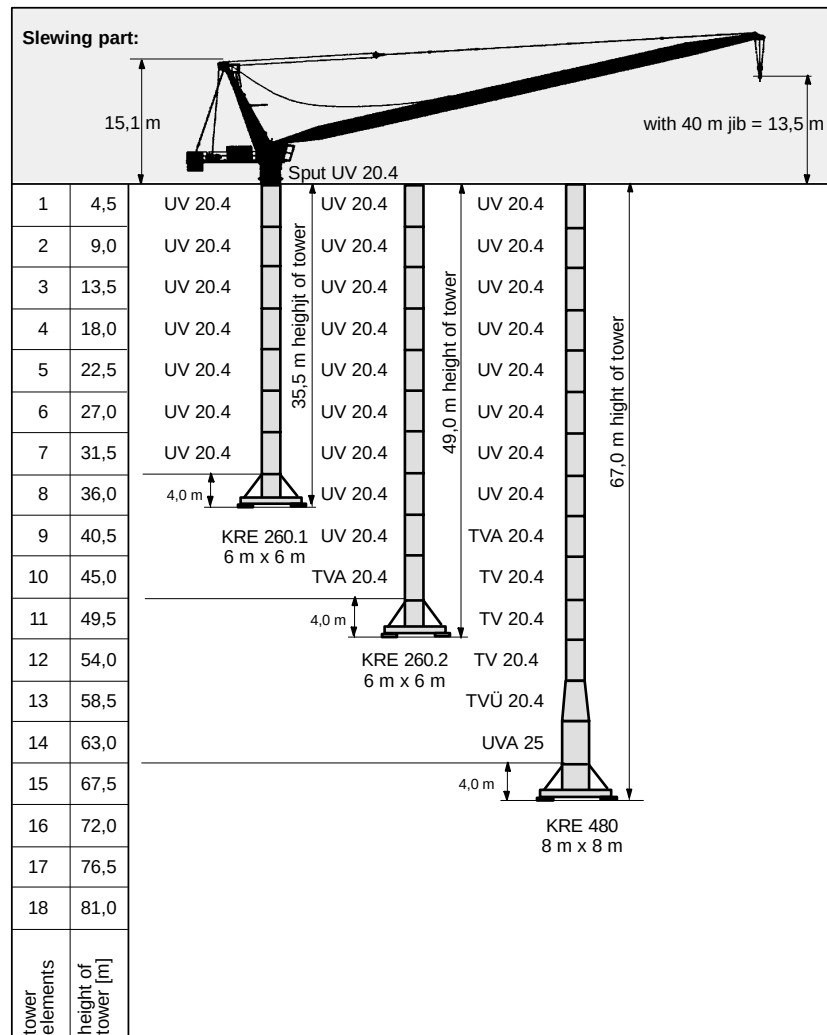
The tower configurations are recommended for economic crane installation and may be used in any case.

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.

2.2.8.2 Tower configurations

Jib 40 m

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



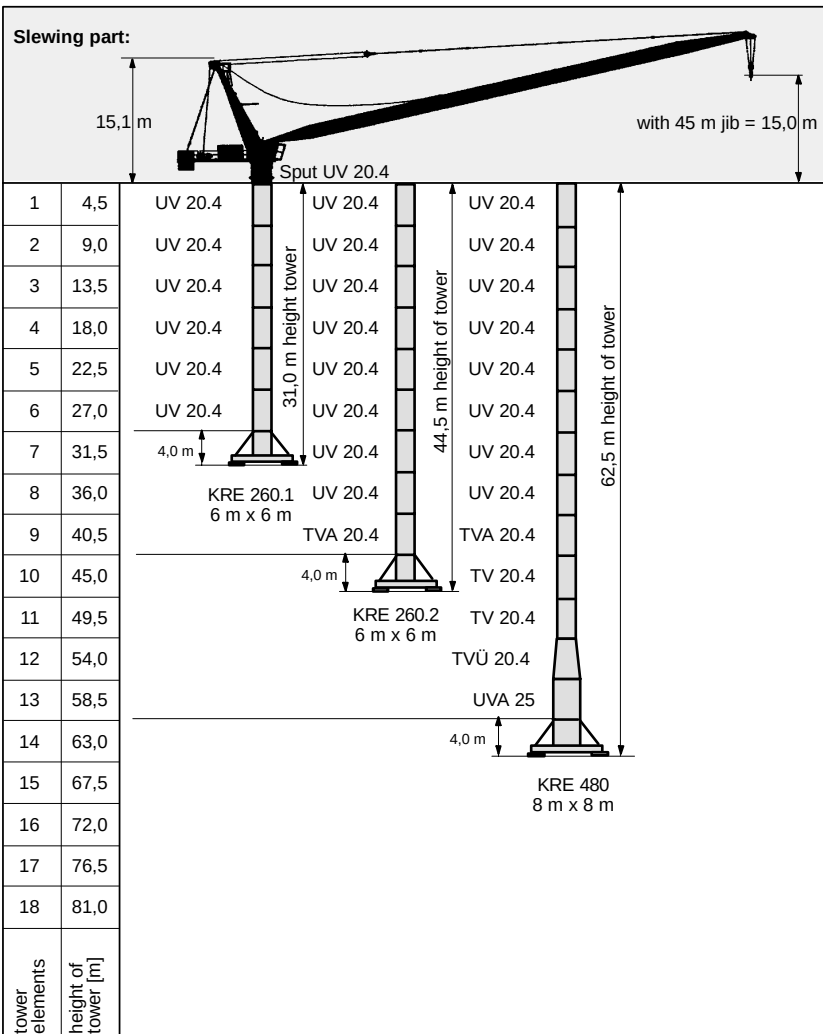
For data regarding cross frame elements see section 12.

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.

2.2.8.3 Tower configurations special execution Jib 45 m

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



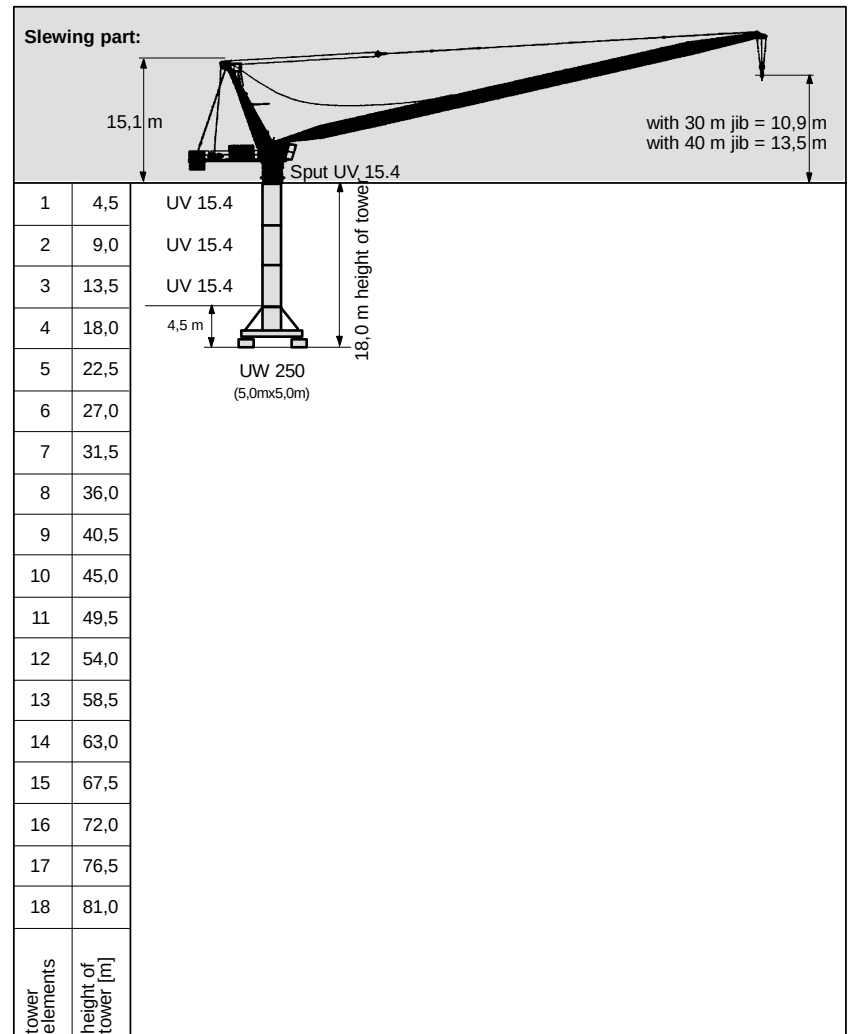
For data regarding cross frame elements see section 12.

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.

2.2.9.1 Tower configuration Jib 30 m and 40 m

for a travelling crane without climbing device.



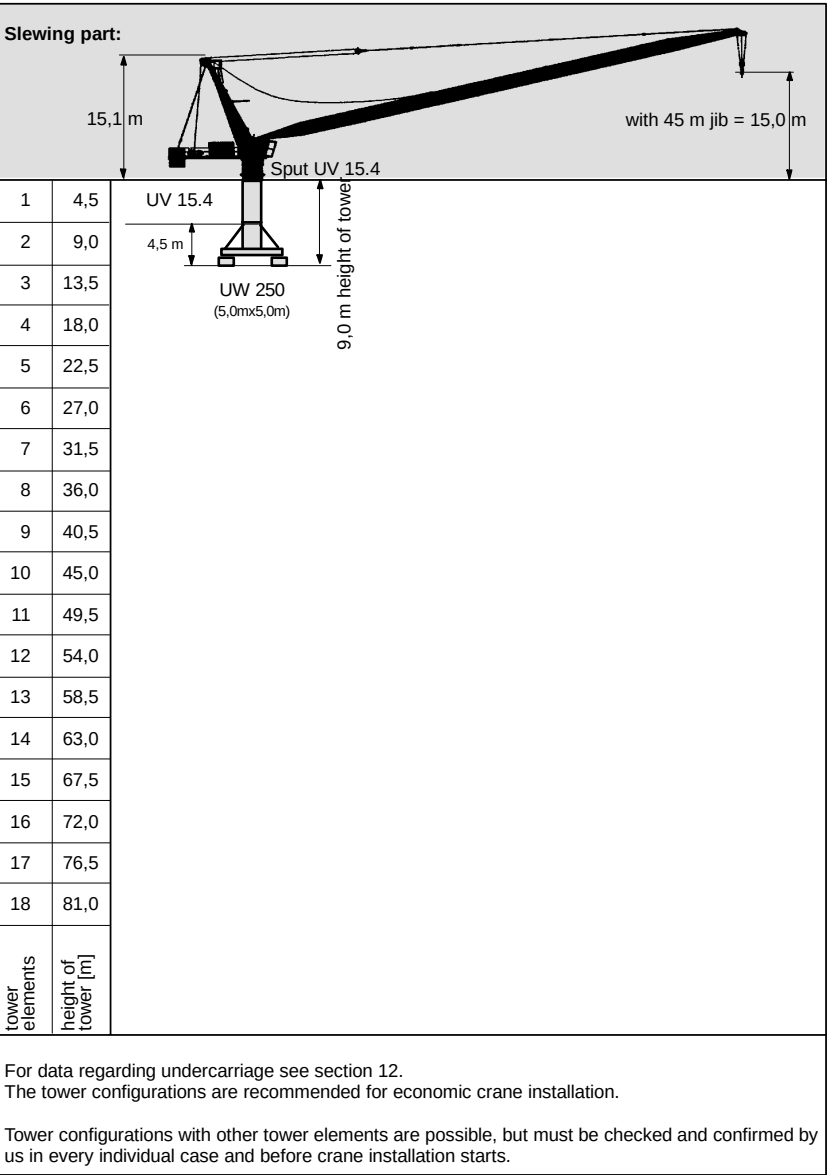
For data regarding undercarriage see section 12.

The tower configurations are recommended for economic crane installation.

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.

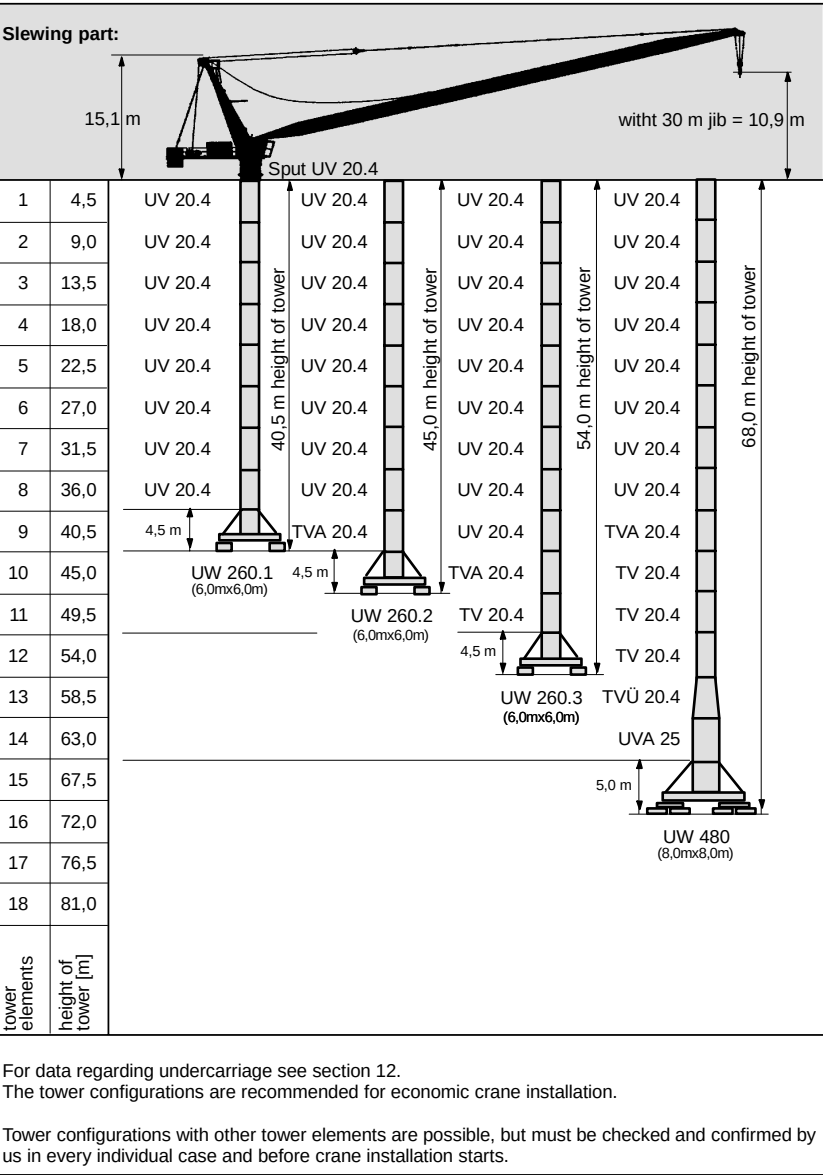
2.2.9.2 Tower configuration Jib 45 m

for a travelling crane without climbing device.



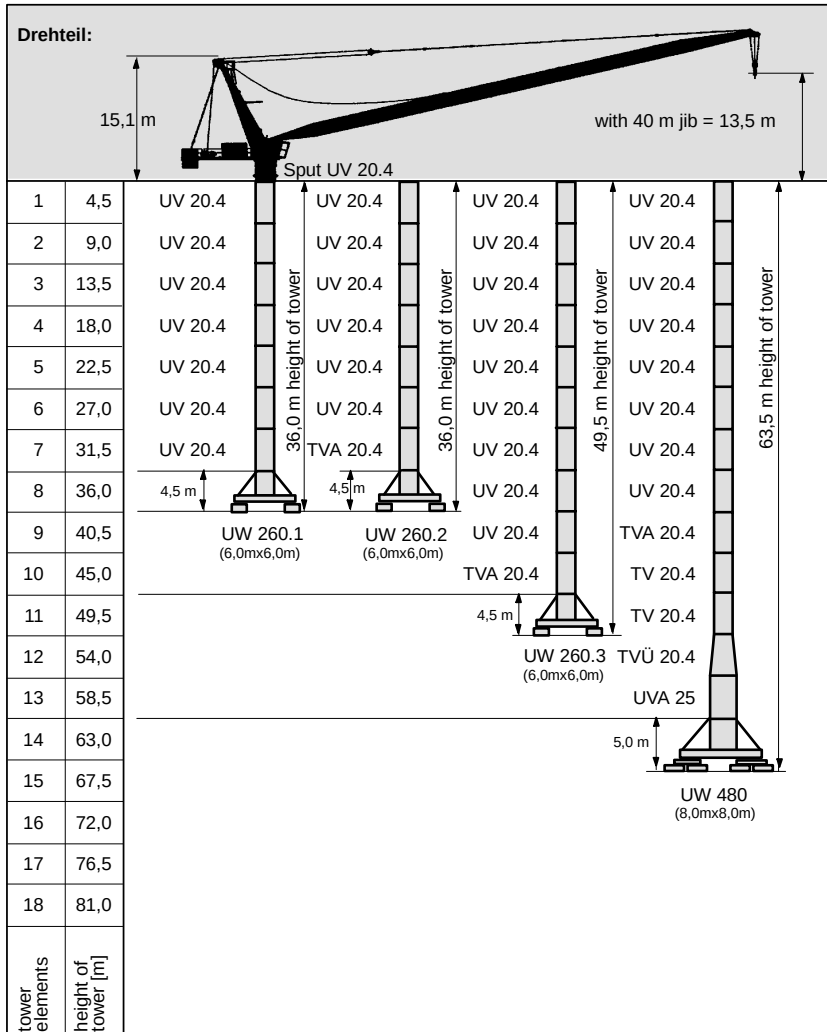
2.2.9.3 Tower configurations Jib 30 m

for a travelling crane without climbing device.



2.2.9.4	Tower configurations	Jib 40 m
---------	-----------------------------	-----------------

for a travelling crane without climbing device.

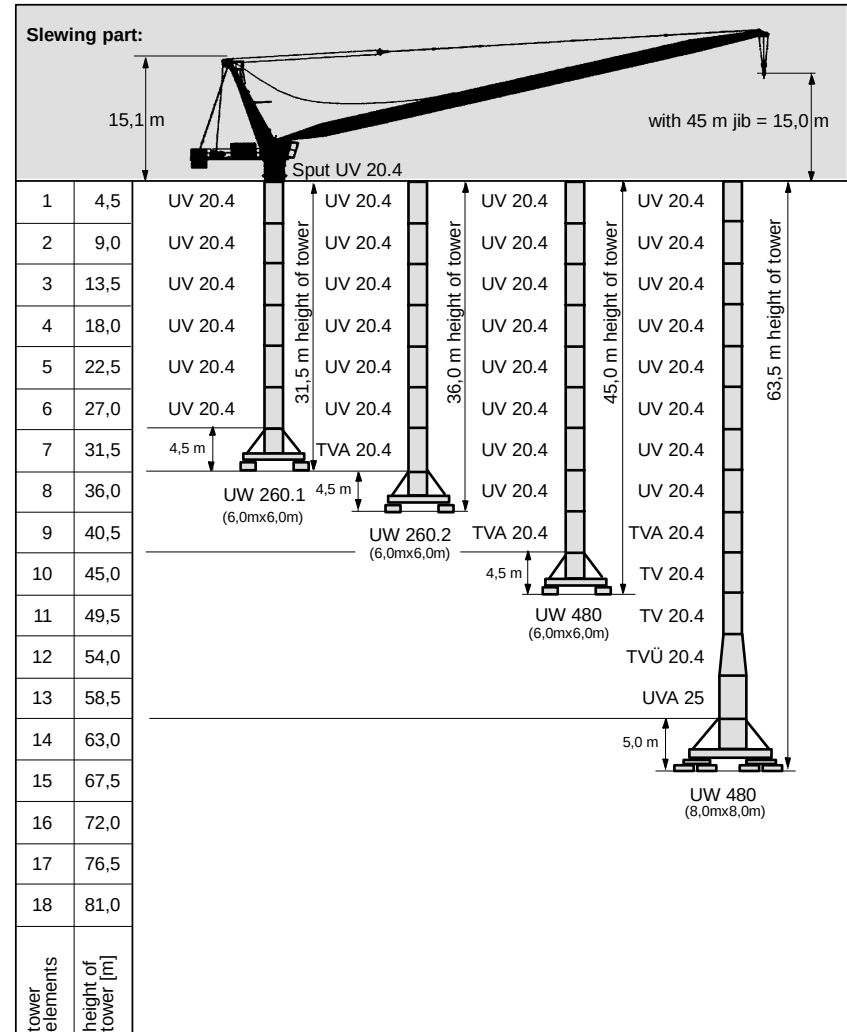


For data regarding undercarriage see section 12.
The tower configurations are recommended for economic crane installation.

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.

2.2.9.5	Tower configurations	special execution Jib 45 m
---------	-----------------------------	----------------------------

for a travelling crane without climbing device.



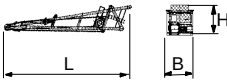
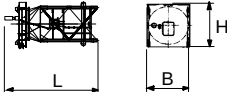
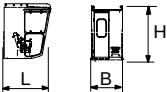
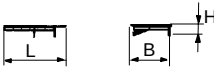
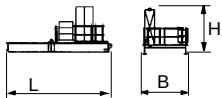
For data regarding undercarriage see section 12.
The tower configurations are recommended for economic crane installation.

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.

WOLFF 100 B
Crane data
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2.3.1

Colli list

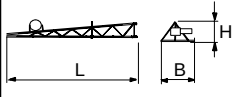
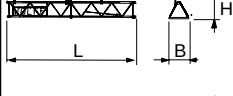
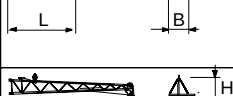
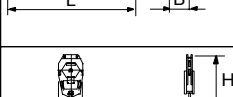
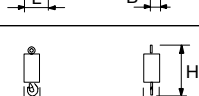
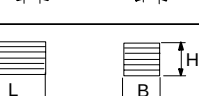
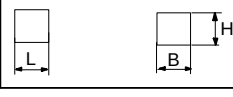
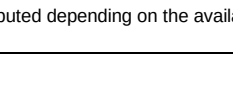
item	pcs.	Designation	Colli	L (m)	B (m)	H (m)	weight (kg)	volume (m³)			
1	1	tower top with luffing drive, pulley block and div. bracing brackets		11,89	1,95	2,22	4300	41,47			
2	1	tower top-lower part with slewing frame, slewing drive, slewing bearing and slipring system		Sput - UV 20.4			5,63	2,18	2,42	5500	29,70
3	1	driver's cabin		1,90	1,44	2,34	900	6,40			
	1	driver's cabin suspension		,228	1,85	0,54	360	2,28			
4	1	counterjib complete		5,49	1,84	2,30	2200	23,23			

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Crane data
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2.3.2

Colli liste

Item	pcs.	Designation	Colli	L (m)	B (m)	H (m)	weight (kg)	volume (m³)
5	1	jib part 1 with hoisting drive, 240 m hoisting rope assembly rope guidance		10,27	2,28	1,16	2420	27,16
6	1	jib part 2 with bracing parts a. assembly rope guidance		10,50	1,11	1,59	1570	18,53
7	1	jib part 3		10,50	1,11	1,22	830	14,22
8	1	jib part 4 (extra for 45 m)		5,33	1,11	1,22	450	7,22
9	1	jib part 5 and erection platform		10,70	1,60	2,15	1130	36,81
10	1	hook block 6 t (loose parts)		0,50	0,22	1,11	350	0,12
11	1	hook block option (loose parts)		0,27	0,28	0,7	200	0,07
12	1	standard handrail (loose parts)		2,55	1,11	1,00	90	2,83
13	1	box (loose parts)		1,60	0,90	0,80	300	1,15

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

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WOLFF 100 B
Crane data
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2.5.1

Assembly weights - slewing part

Tower top with integrated luffing drive and pulley block with all other mechanical parts with bracing brackets to the counterjib (4 x 5095 mm).	260 kg	4 300 kg
Tower top - lower part slewing frame connected by ball race bearing with 1 slewing frame, with mechanical parts and standard handrail		5 500 kg
Driver's cabin with driver's cabin suspension and standard handrail.		1 260 kg
Counterjib with switch cabinet, resistor, bracings and standard hand.		2 310 kg
jib 45,0 m (consisting of jib parts 1/2/5/3/4) with mechanical parts, bracing brackets, pigeon trestles, assembly platform - bracing brackets, assembly bracing, assembly rope guidance.		6 450 kg
Jib 40,0 m (consisting of jib parts 1/2/3/4) with mechanical parts, bracing brackets, pigeon trestles, assembly platform - bracing brackets, assembly bracing, assembly rope guidance.		5 950 kg
jib 30,0 m (consisting of jib parts 1/2/4) with mechanical parts, bracing brackets, pigeon trestles, assembly platform - bracing brackets, assembly bracing, assembly rope guidance.		5 450 kg
Hook block	6 t 3 t	350 kg 200 kg
Counterweights for 30 m and 40m jib 4 x 4,4 t		17 600 kg
Counterweights for 45 m jib 4 x 4,4 t 1 x 2,4 t		20 000 kg

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WOLFF 100 B
Crane data
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2.5.2

Assembly weights - cross frame / cross frame element

Cross frame KRS 8 - 46 (without optional features) (4,6 m x 4,6 m)		5 200 kg
- 4 spigots AZ 85 E 20.5 - 4 spigots AZ 93.4 - 4 spigots AZ 120 M		195 kg 200 kg 272 kg
Cross frame KR 10 - 46/60 (without optional features) (4,6 m x 4,6 m)		7 000 kg
- 4 spigots AZR 120 E 15.5 - 4 spigots AZ 140 M		560 kg 684 kg
Cross frame KR 10 - 46/60 (without optional features) (6,0 m x 6,0 m)		8 805 kg
- 4 spigots AZR 120 E 15.5 - 4 spigots AZ 140 M		560 kg 684 kg
Cross frame KR 1000 - 8 (without optional features) (8 m x 8 m)		14 630 kg
- 4 spigots AZ 140 E - 4 spigots AZ 156 M		684 kg 748 kg
Cross frame KR 16 - 80/100 (without optional features) (8 m x 8 m)		21 450 kg
- 4 spigots AZ 140 E KR16-80 - 4 spigots AZ 156 M KR16-80 - 4 spigots AZ 156S M KR16-80		620 kg 680 kg 675 kg
Cross frame KR 16 - 80/100 (without optional features) (10 m x 10 m)		25 400 kg
- 4 spigots AZ 140 E KR16-80 - 4 spigots AZ 156 M KR16-80 - 4 spigots AZ 156S M KR16-80		620 kg 680 kg 675 kg

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WOLFF 100 B

Crane data

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2.5.3

Assembly weights - cross frame element / undercarriage

Cross frame element KRE 260.1 compl.		8 100 kg
- cross frame platform with swivel arms, corner bearings and safety devices for transport	4 320 kg	
- base mast part with diagonal struts and track rod	3 780 kg	
Cross frame element KRE 260.2 compl.		10 900 kg
- cross frame platform with swivel arms, corner bearings and safety devices for transport	5 455 kg	
- base mast part with diagonal struts and track rod	5 445 kg	
Cross frame element KRE 480 compl.		24 250 kg
- base mast part	7 100 kg	
- swivel arms and corner bearings	6 250 kg	
- diagonal struts and ballast suspension means	9 260 kg	
- assembly platform, ladder and small parts	1 640 kg	
Undercarriage UW 260.1 compl.		11 400 kg
- undercarriage platform with swivel arms, subframes and safety devices for transport	7 150 kg	
- base mast part with diagonal struts and track rod	4 250 kg	
Undercarriage UW 260.2 compl.		13 930 kg
- undercarriage platform with swivel arms, subframes and safety devices for transport	8 050 kg	
- base mast part with diagonal struts and track rod	5 880 kg	
Undercarriage UW 260.3 compl.		17 200 kg
- undercarriage platform with swivel arms, subframes and safety devices for transport	11 220 kg	
- base mast part with diagonal struts and track rod	5 880 kg	
Undercarriage UW 480 compl.		34 000 kg
- base mast part	7 100 kg	
- swivel arms with traverse and subframes	16 000 kg	
- diagonal struts and ballast suspension means	9 260 kg	
- assembly platform, ladder and small parts	1 640 kg	

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WOLFF 100 B

Crane data

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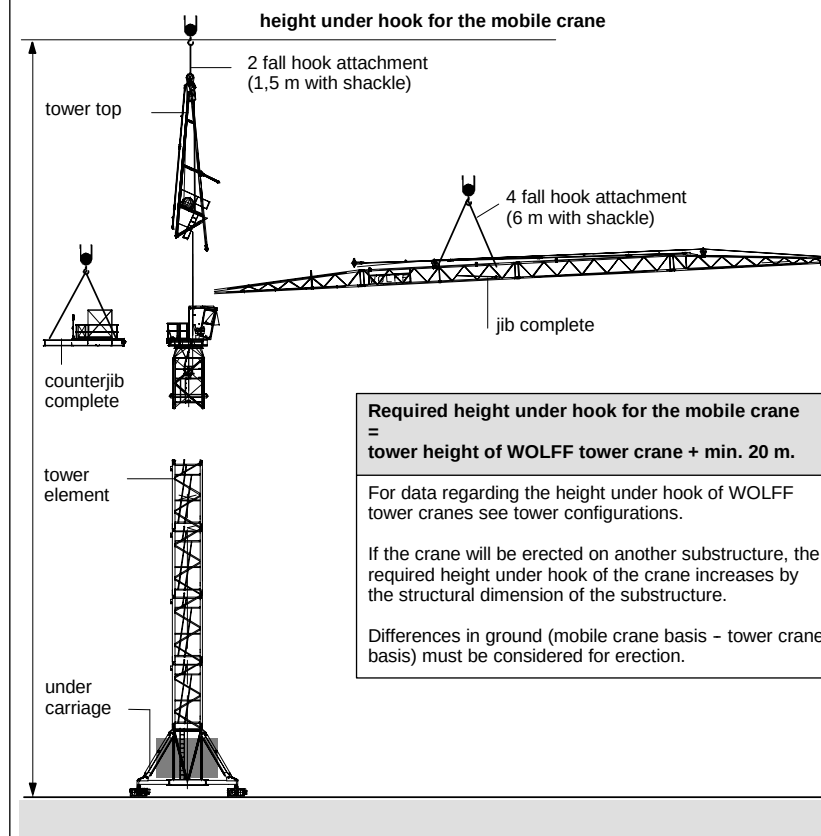
2.5.4

Required height under hook for the mobile crane



Danger!

Use suspension ropes with sufficient capacity and observe suspension plan!



962-4-013058E

2.6.1.1 Jib - Suspension plan from 45 m to 30 m jib

1 fall operation

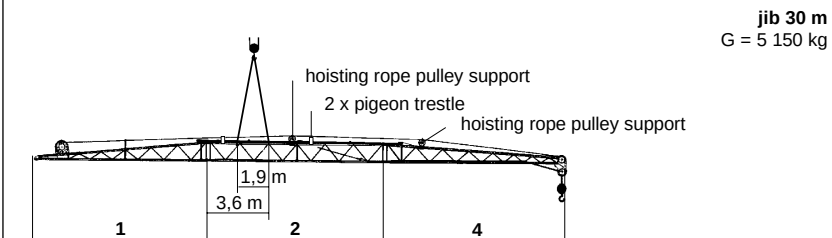
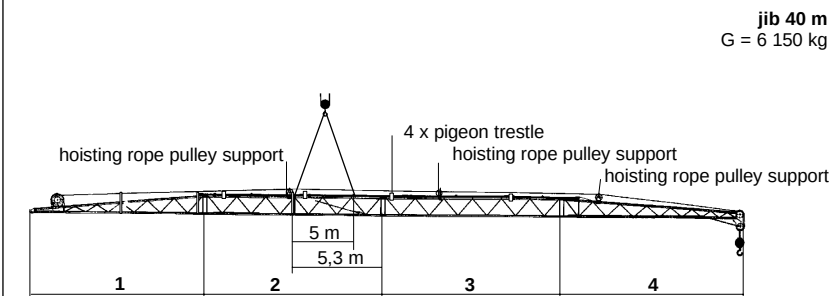
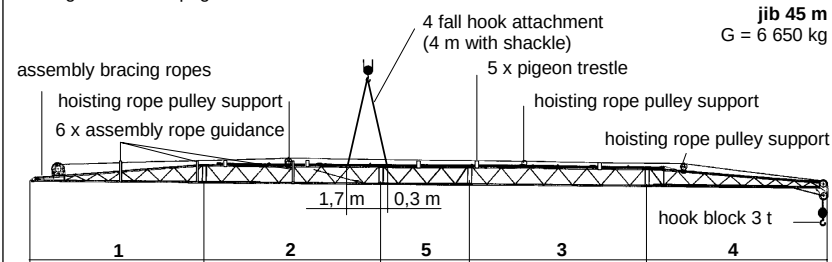
**Danger!**

The jib must be balanced and safely hang in horizontal position. 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 / 4 = 10 m
5 = 5 m

Bracing latches see page 2 / 84



2.6.1.2 Jib - Suspension plan from 45 m to 30 m jib

2 fall operation

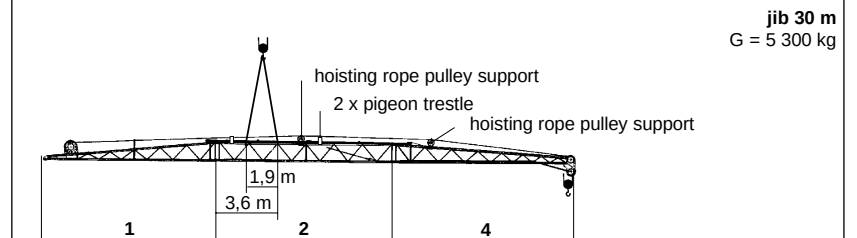
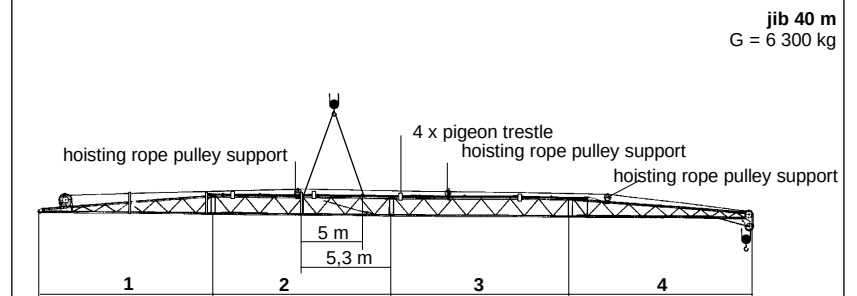
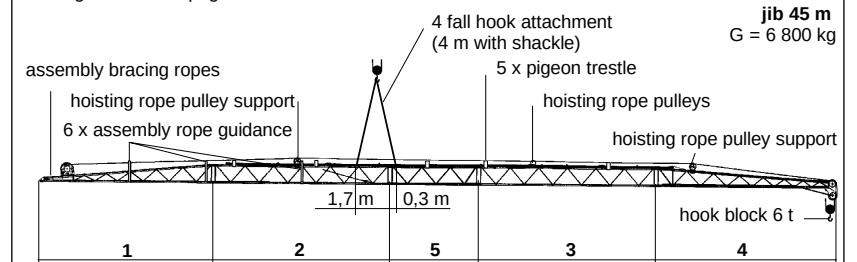
**Danger!**

The jib must be balanced and safely hang in horizontal position. 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.

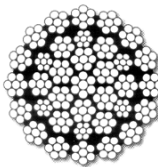
Lengths: Jib part 1 / 2 / 3 / 4 = 10 m
5 = 5 m

Bracing latches see page 2 / 84



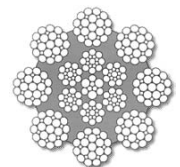
2.7.1.1

Hoisting rope

Cable Ø = 16 mm . + 4% + 2%	design according to DIN 15020 kind of operation TWG 1 Am		
First equipment	CASAR STARLIFT - non-twisting,, flexible hoisting rope with compressed steel 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 bright cable wire. middle space factor = 0,654 middle spinning loss factor = 0,76 middle weight factor = 0,90 total twist number = 245 number of carrying wires in the outer strands is to be judged by the state of wear according to DIN 15020 Bl. 2 / ISO DIS 4309 = 112		
Basic equipment <table border="1" data-bbox="273 1027 976 1107"> <tr> <td data-bbox="273 1027 524 1107">cable length 240 m</td><td data-bbox="524 1027 976 1107"> for crane with: operation radius tower height 2 fall 30 - 45 m 40,5 m </td></tr> </table> By lengthening the hook path by 1 tower element (4,5 m) the necessary cable length in- creases by 9 m for operation in 2 falls and by 18,0 m for operation in 4 falls *) also for special execution 45 m		cable length 240 m	for crane with: operation radius tower height 2 fall 30 - 45 m 40,5 m
cable length 240 m	for crane with: operation radius tower height 2 fall 30 - 45 m 40,5 m		
! Attention! A wire cable is a complex machine element. Conventional cable design frequently doesn't meet the requirements of modern rope drives. short ser- vice life is the result.			

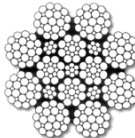
2.7.1.2

Luffing rope

Cable Ø = 16 mm + 4% + 2%	design according to DIN 15020 kind of operation TWG 1 Am		
First equipment	CASAR STRATOPLAST - cable with 8 strands, made of uncompressed strands (steel cable core).  nominal strength = 1770 N/mm² calc. breaking strength = 222,0 kN min. breaking strength = 189,0 kN weight per meter = 1,116 kg		
Design	langs lay rope, right handed, made from bright cable wires. middle space factor = 0,617 middle spinning loss factor = 0,86 middle weight factor = 0,89 total twist number = 319 Number of carrying wires in outer strands is to be judged by the state of wear according to DIN 15020 Bl. 2 / ISO DIS 4309 = 152		
Basic equipment <table border="1" data-bbox="1288 1027 1991 1107"> <tr> <td data-bbox="1288 1027 1536 1107">cable length 1 x 150 m</td><td data-bbox="1536 1027 1991 1107"> for crane with: radius 30 - 45 m </td></tr> </table> *) also for special execution 45 m.		cable length 1 x 150 m	for crane with: radius 30 - 45 m
cable length 1 x 150 m	for crane with: radius 30 - 45 m		
! Attention! A wire cable is a complex machine element. Conventional cable design frequently doesn't meet the requirements of modern rope drives. short ser- vice life is the result.			

2.7.1.3

Assembly bracing ropes

Cable Ø = 22 mm + 4% + 2%	design according to FEM 3 / 87 kind of operation M 3					
First equipment	CASAR STRATOLIFT - cable with 8 strands in non-overlapped double parallel construction, made out of uncompressed strands. 					
Design	nominal strength = 1770 N/mm ² calc. breaking strength = 451,9 kN min. breaking strength = 388,5 kN weight per meter = 2,195 kg ordinary lay rope, right handed, made of zincd cable wires. middle space factor = 0,617 middle spinning loss factor = 0,86 middle weight factor = 0,89 middle total twist number = 303 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 = 152					
Basic equipment						
<table><tr><td>cable length</td><td>2 x 24,15 m</td><td>for crane with:</td><td>radius</td><td>30 - 45 m</td></tr></table>		cable length	2 x 24,15 m	for crane with:	radius	30 - 45 m
cable length	2 x 24,15 m	for crane with:	radius	30 - 45 m		
Attention! The assembly bracing ropes are used paired. Keep the exact length Length from center of thimble hole to center of thimble hole = 24,15 m. *) also for special execution 45 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.						

2.8.1

Insertable exterior climbing gear KWH 20.3

**Attention!**

The erection of the climbing frame with the WOLFF - tower crane 100 B is possible with operation in 2-falls.

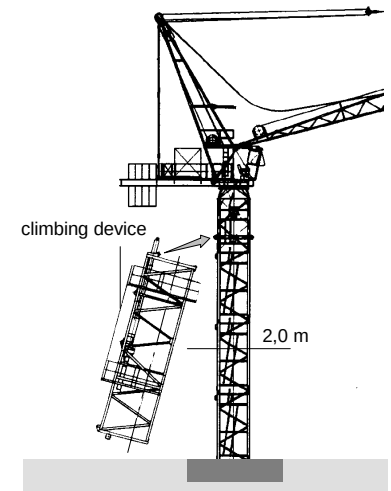
Details about climbing drive KWH 20.3 see additional equipment, section 12.

Min. height with stationary erection:

3 x tower elements = 13,5 m tower height

Min. height with travelling erection:

**2 x tower elements + undercarriage
= ca. 13,5 m tower height**



2.8.1.1

Table of balancing weights

WOLFF 100 B	jib		
	30 m	40 m	45 m
balancing weight load = 2,0 t *	14,0 m **	12,5 m	13,0 m

* The balancing weights indicated are gross weights of the tower elements or load.

** The indicated radius refers to the centre of the tower and shall be treated as standard value. Exact balancing will be achieved by travelling of trolley with tower element or load and may be checked by travelling apart free of mismatch at the joints of the tower.

**Danger!**

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

2.8.4 **Insertable internal climbing gear KSH 15**

For use of the WOLFF 100 B together with an internal climbing gear KSH 15 pay attention to the following tower configuration.

Information about KSH 15 is given in a separate documentation in section 12, Additional Equipment.

2.8.4.1 Table of balancing weights

!

Attention!

Attention:
The radii in the balancing weight table are given for operation in 2-falls.

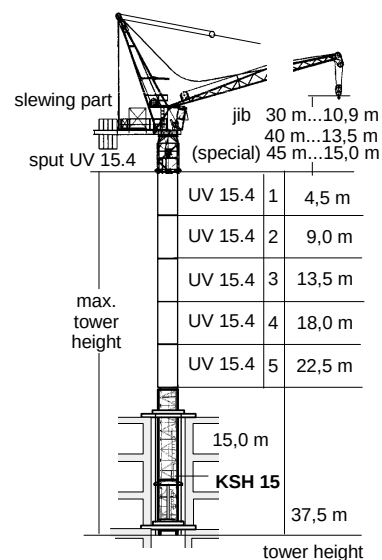
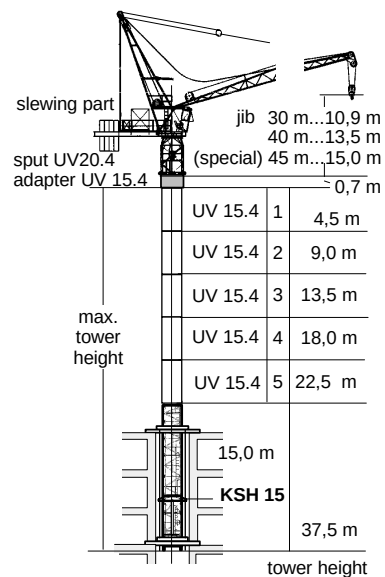
* The indicated balancing weights are gross-weights of tower elements or load.

****** The indicated radius refers to the centre of the tower and shall be treated as standard value. Exact balancing must be achieved by travelling of jib with tower element or load and can be checked by measuring the distance between corner posts and guide plates. This distance shall be equal at all four corner posts.

30 m jib
balancing load 2,9 t * at 24,0 m ** radius

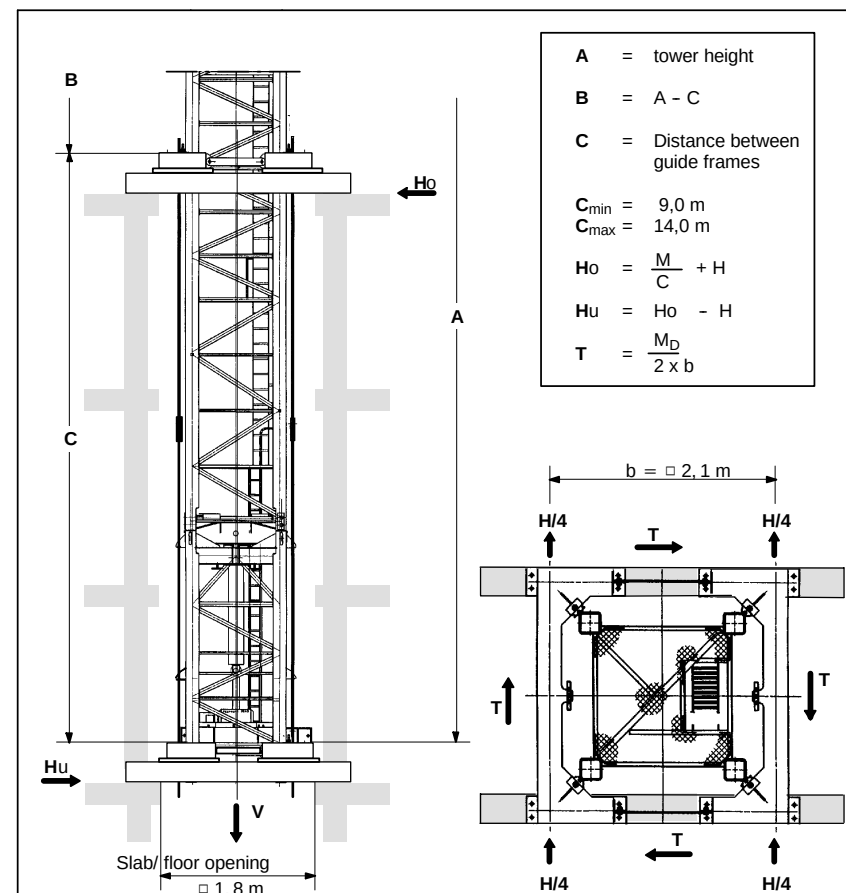
40 m jib
balancing load 2.6 t at 22.0 m radius

45 m (special)-jib			
balancing load			
3,2 t	at	19,0 m	radius



2.8.4.2 Reacting forces to building

for internal hydraulic climbing device KSH 15



Reacting forces to building (kN)	
Vertical	1000
Horizontal	100

[illegible]

2.8.5 Insertable internal climbing gear KSH 20 L

For use of the WOLFF 100 B together with an internal climbing gear KSH 20 L pay attention to the following tower configuration.

Information about KSH 20 L is given in a separate documentation in section 12, Additional Equipment.

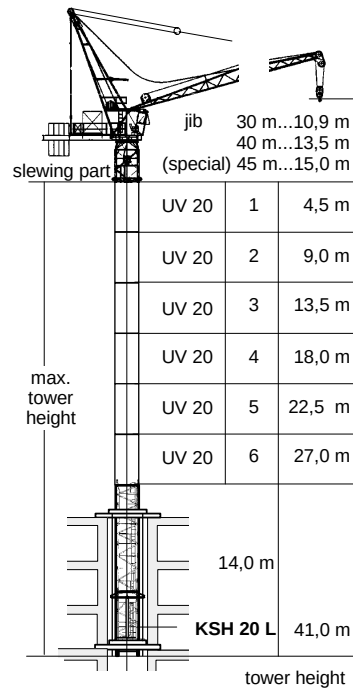
2.8.5.1 Table of balancing weights

**Attention!**

The radii in the balancing weight table are given for operation in 2-falls.

* 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 be achieved by travelling of jib with tower element or load and can be checked by measuring the distance between corner posts and guide plates. This distance shall be equal at all four corner posts.

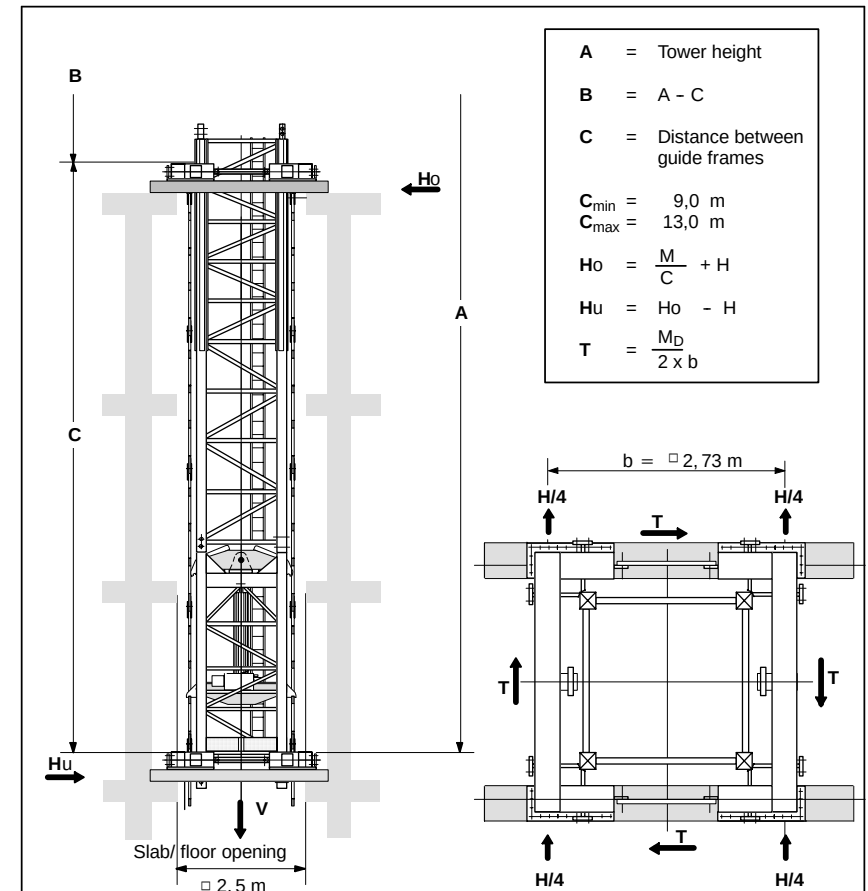


30 m jib			
balancing load	2,9 t *	bei 24,0 m **	radius

40 m jib			
balancing load	2,6 t	bei 22,0 m	radius

45 m (special)-jib			
balancing load	3,2 t	bei 19,0 m	radius

2.8.5.2 Reacting forces to building for internal hydraulic climbing device KSH 20 L



Reacting forces to building (kN)

A (m)	41,0				36,5				32,0				27,5			
C (m)	9	10	12	13	9	10	12	13	9	10	12	13	9	10	12	13
V	698	698	698	698	680	680	680	680	662	662	662	662	643	643	643	643
Ho	518	477	415	391	450	415	362	342	387	357	313	296	329	305	269	255
Hu	412	371	309	285	351	316	263	243	295	265	221	204	243	219	183	169
T	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26

2.8.6 Insertable internal climbing gear KSH 20 M

For use of the WOLFF 100 B together with an internal climbing gear KSH 20 M pay attention to the following tower configuration.

Information about KSH 20 M is given in a separate documentation in section 12, Additional Equipment.

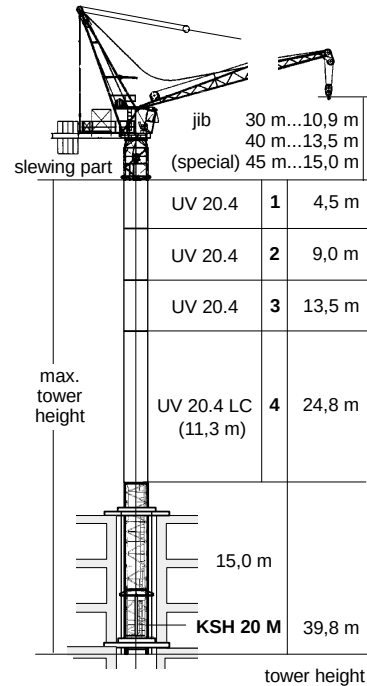
2.8.6.1 Table of balancing weights

**Attention!**

The radii in the balancing weight table are given for operation in 2-falls.

* 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 be achieved by travelling of trolley with tower element or load and can be checked by measuring the distance between corner posts and guide plates. This distance shall be equal at all four corner posts.

**30 m jib**

balancing load	bei	radius
2,9 t *	24,0 m **	radius

40 m jib

balancing load	bei	radius
2,6 t	22,0 m	radius

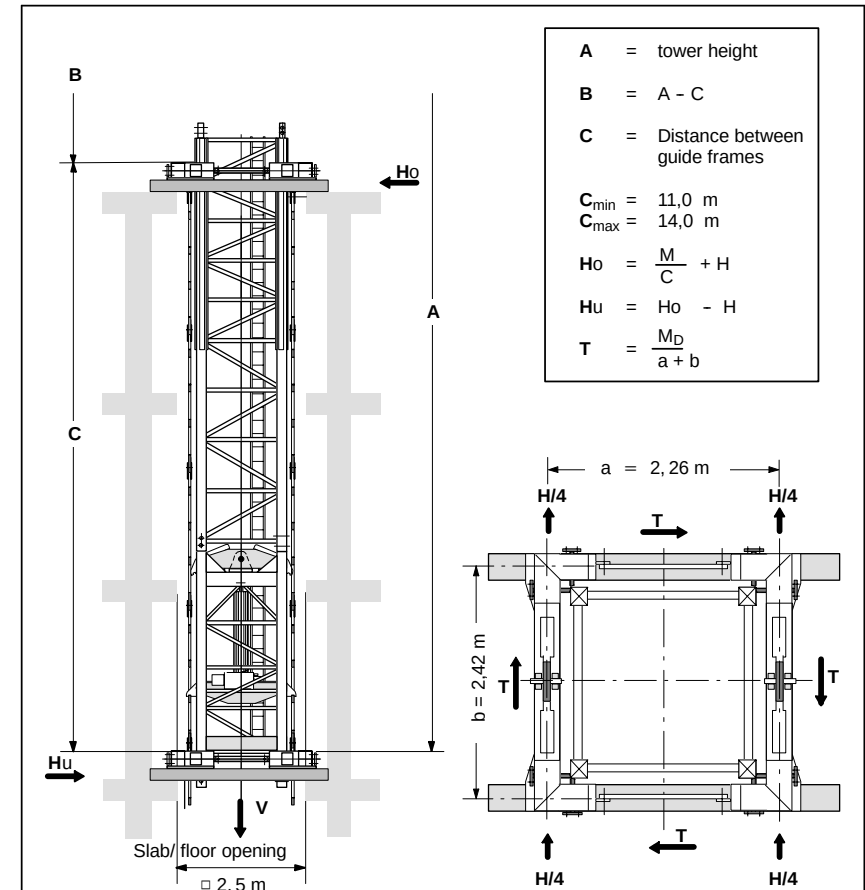
45 m (special)-jib

balancing load	bei	radius
3,2 t	19,0 m	radius

2.8.6.2

Reacting forces to building

for internal hydraulic climbing device KSH 20 M

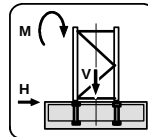


Reacting forces to building (kN)

A (m)	39,5				35,0				30,5							
C (m)	11	12	13	14	11	12	13	14	11	12	13	14				
V	690	690	690	690	672	672	672	672	654	654	654	654				
H _o	443	415	391	371	386	362	342	325	333	313	296	282				
H _u	337	309	285	265	287	263	243	226	241	221	204	190				
T	26	26	26	26	26	26	26	26	26	26	26	26				

3.1.1 Foundation loads according to DIN

Inclusive all dynamic factors, theory order II taken into account
for stationary tower crane on a concrete foundation
according to tower configuration without climbing device
M = moment **H** = horizontal force **V** = vertical load
Permanent acting moment = 692 kNm



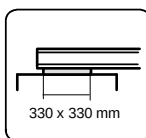
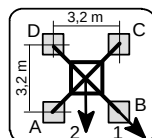
Foundation loads

Jib length 30 m to 45 m

height under hook [m]	Crane in service torque moment 140 kNm			Crane out of service			assembly		
	M [kNm]	H [kN]	V [kN]	M [kNm]	H [kN]	V [kN]	M [kNm]	H [kN]	V [kN]
4,5	1521	22	393	537	42	393	1297	10	197
9,0	1608	23	411	757	63	411	1349	12	215
13,5	1707	25	430	1056	68	430	1408	13	233
18,0	1818	26	448	1380	73	448	1476	15	252
22,5	1941	27	466	1767	79	466	1553	16	270
27,0	2077	28	484	2191	86	484	1638	18	288
31,5	2227	30	502	2654	92	502	1733	19	306
36,0	2391	31	521	3159	99	521	1837	21	324
40,5	2570	32	539	3710	106	539	1952	22	343
45,0	2766	34	557	4310	112	557	2077	24	361
49,5	2942	36	595	4912	122	595	2202	26	399
54,0	3153	38	624	5594	130	624	2345	28	428
58,5	3382	39	652	6333	138	652	2501	30	456
63,0	3588	42	702	7110	150	702	2661	33	506
67,5	3831	44	734	7950	160	734	2837	35	538
72,0	3987	46	792	8774	166	792	2940	37	591
Attention ! Tower configuration with basis tower BT 29									
74,2	4060	48	854	9170	172	859	3030	40	659
78,7	4322	50	905	10151	183	905	3236	42	705
83,2	4603	53	951	11204	194	952	3456	46	752
87,7	4902	55	998	13482	216	998	3692	48	798
92,2	5223	58	1044	14751	227	1044	3944	50	844

3.2.1.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 7 - 32

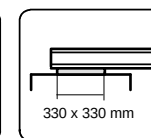
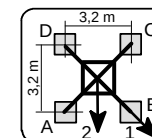
Corner distance 3,2 m x 3,2 m

Jib 30 m

[illegible]

3.2.1.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 7 - 32

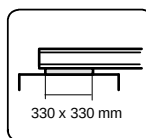
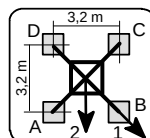
Corner distance 3,2 m x 3,2 m

Jib 40 m

[illegible]

3.2.1.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 7 - 32

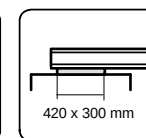
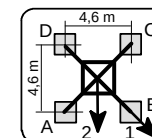
Corner distance 3,2 m x 3,2 m

Jib 45 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm				Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm				Horizontal force [kN]
			Cornerloads						Cornerloads				
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
5,3	65	1	198	689	198	0	24	1	161	562	161	0	68
		2	515	515	27	27		2	420	420	22	22	
9,8	65	1	187	728	187	0	25	1	159	585	159	0	71
		2	533	533	18	18		2	432	432	18	18	
14,3	80	1	248	773	248	0	27	1	229	611	229	0	75
		2	591	591	44	44		2	488	488	147	147	

3.2.2.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KRS 8 - 46

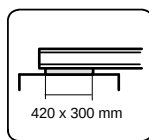
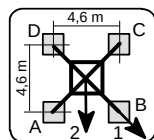
Corner distance 4,6 m x 4,6 m

Jib 30 m

[illegible]

3.2.2.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KRS 8 - 46

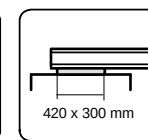
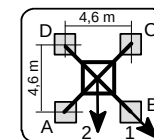
Corner distance 4,6 m x 4,7 m

Jib 40 m

[illegible]

3.2.2.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KRS 8 - 46

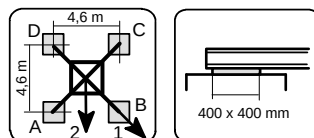
Corner distance 4,6 m x 4,7 m

Jib 45 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm					Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm					Horizontal force [kN]
			Cornerloads				Cornerloads								
			A [kN]	B [kN]	C [kN]	D [kN]	A [kN]			B [kN]	C [kN]	D [kN]			
5,4	35	1	156	479	156	0	24	1	112	369	112	0	78		
		2	367	367	28	28		2	279	279	18	18			
9,9	35	1	151	507	151	0	26	1	118	376	118	0	83		
		2	381	381	23	23		2	292	292	113	113			
14,4	40	1	170	537	170	0	27	1	220	393	220	47	87		
		2	409	409	29	29		2	342	342	98	98			
18,9	50	1	213	570	212	0	29	1	250	473	249	26	92		
		2	450	450	47	47		2	408	408	91	91			
23,4	65	1	278	607	278	0	30	1	292	576	292	8	99		
		2	505	505	76	76		2	492	492	91	91			
27,9	75	1	317	647	317	0	32	1	293	700	293	0	105		
		2	549	549	91	91		2	569	569	74	74			

3.2.3.1 Centerballasts and Cornerloads acc. to DIN 15019

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



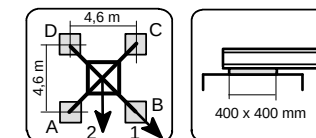
KR 10 - 46/60

Corner distance 4.6 m x 4,6 m

Jib 30 m

[illegible]

3.2.3.2 Centerballasts and Cornerloads acc. to DIN 15019

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

KR 10 - 46/60

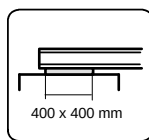
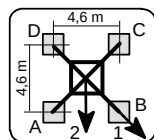
Corner distance 4.6 m x 4,6 m

Jib 40 m

[illegible]

3.2.3.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 10 - 46/60

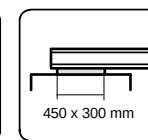
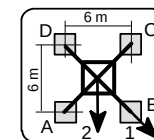
Corner distance 4.6 m x 4,6 m

Jib 45 m

[illegible]

3.2.4.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 10 - 46/60

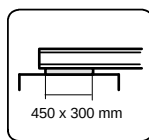
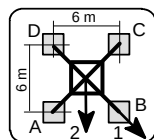
Corner distance 6,0 m x 6,0 m

Jib 30 m

[illegible]

3.2.4.2 Centerballasts and Cornerloads acc. to DIN 15019

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



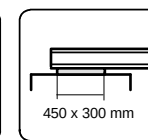
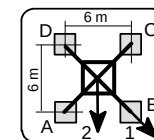
KR 10 - 46/60

Corner distance 6,0 m x 6,0 m

Jib 40 m

[illegible]

3.2.4.3 Centerballasts and Cornerloads acc. to DIN 15019

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

KR 10 - 46/60

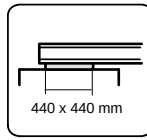
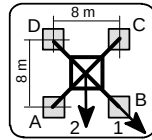
Corner distance 6,0 m x 6,0 m

Jib 45 m

[illegible]

3.2.5.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 1000 - 8

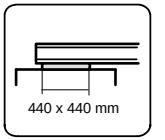
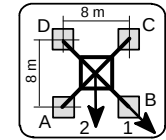
Corner distance 8,0 m x 8,0 m

Jib 30 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm					Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm					Horizontal force [kN]
			Cornerloads				Cornerloads								
			A [kN]	B [kN]	C [kN]	D [kN]	A [kN]			B [kN]	C [kN]	D [kN]			
5,7	0	1	151	271	151	31	21	1	94	149	94	39	68		
		2	236	236	66	66		2	143	143	132	132			
10,2	0	1	156	281	156	30	22	1	142	167	142	117	73		
		2	245	245	66	66		2	160	160	125	125			
14,7	0	1	160	292	160	28	24	1	147	191	147	103	78		
		2	254	254	66	66		2	178	178	116	116			
19,2	0	1	165	304	165	25	25	1	152	218	152	85	83		
		2	263	263	66	66		2	198	198	105	105			
23,7	0	1	169	317	169	21	27	1	156	253	156	59	89		
		2	274	274	64	64		2	224	224	88	88			
28,2	5	1	174	331	174	16	28	1	161	291	161	30	96		
		2	285	285	63	63		2	253	253	69	69			
32,7	10	1	191	358	191	23	30	1	178	345	178	11	102		
		2	309	309	72	72		2	296	296	60	60			
37,2	20	1	220	399	220	41	31	1	207	414	207	0	109		
		2	347	347	94	94		2	354	354	61	61			
41,7	30	1	250	441	250	58	33	1	223	501	223	0	116		
		2	385	385	114	114		2	414	414	59	59			
46,2	40	1	279	485	279	74	34	1	235	596	235	0	122		
		2	425	425	134	134		2	477	477	55	55			
50,7	55	1	327	545	327	108	36	1	279	695	279	0	132		
		2	481	481	172	172		2	559	559	67	67			
55,2	70	1	371	605	371	138	38	1	314	805	314	0	140		
		2	536	536	206	206		2	643	643	73	73			
59,7	85	1	416	666	416	165	40	1	343	925	343	0	148		
		2	593	593	239	239		2	730	730	75	75			
64,2	105	1	478	744	478	212	43	1	402	1056	402	0	160		
		2	666	666	290	290		2	839	839	92	92			
68,7	125	1	536	820	536	252	46	1	449	1194	449	0	170		
		2	737	737	335	335		2	945	945	101	101			

3.2.5.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 1000 - 8

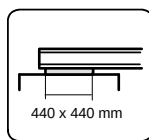
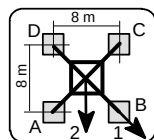
Corner distance 8,0 m x 8,0 m

Jib 40 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm					Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm					Horizontal force [kN]
			Cornerloads				Cornerloads								
			A [kN]	B [kN]	C [kN]	D [kN]	A [kN]			B [kN]	C [kN]	D [kN]			
5,7	0	1	155	267	155	43	23	1	140	183	140	97	75		
		2	234	234	76	76		2	170	170	110	110			
10,2	0	1	159	279	159	40	24	1	144	205	144	84	80		
		2	244	244	75	75		2	187	187	102	102			
14,7	0	1	164	292	164	36	26	1	149	235	149	63	84		
		2	255	255	73	73		2	210	210	88	88			
19,2	0	1	169	306	169	31	27	1	154	267	154	40	89		
		2	266	266	71	71		2	234	234	73	73			
23,7	5	1	173	321	173	25	29	1	158	305	158	11	96		
		2	277	277	69	69		2	262	262	54	54			
28,2	10	1	190	349	190	31	30	1	167	367	167	0	102		
		2	302	302	78	78		2	305	305	45	45			
32,7	20	1	220	391	220	49	32	1	186	447	186	0	109		
		2	341	341	99	99		2	363	363	47	47			
37,2	30	1	249	434	249	65	33	1	202	534	202	0	116		
		2	380	380	119	119		2	423	423	45	45			
41,7	45	1	291	491	291	92	35	1	239	628	239	0	122		
		2	432	432	150	150		2	499	499	54	54			
46,2	60	1	333	549	333	118	36	1	271	731	271	0	129		
		2	486	486	181	181		2	577	577	60	60			
50,7	75	1	380	610	380	150	39	1	313	836	313	0	138		
		2	543	543	218	218		2	661	661	70	70			
55,2	95	1	438	685	438	190	41	1	368	954	368	0	146		
		2	613	613	262	262		2	760	760	85	85			
59,7	110	1	482	749	482	215	43	1	394	1081	394	0	154		
		2	671	671	294	294		2	849	849	85	85			
64,2	130	1	545	829	545	260	46	1	450	1218	450	0	167		
		2	746	746	344	344		2	960	960	99	99			

3.2.5.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 1000 - 8

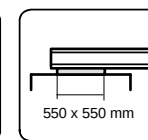
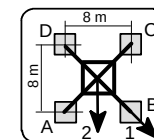
Corner distance 8,0 m x 8,0 m

Jib 45 m

[illegible]

3.2.6.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 16 - 80/100

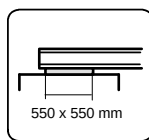
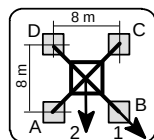
Corner distance 8,0 m x 8,0 m

Jib 30 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm					Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm					Horizontal force [kN]
			Cornerloads				Cornerloads								
			A [kN]	B [kN]	C [kN]	D [kN]	A [kN]			B [kN]	C [kN]	D [kN]			
73,8	145	1	605	911	605	299	50	1	506	1356	506	0	174		
		2	821	821	389	389		2	1072	1072	112	112			
78,3	170	1	677	1003	677	350	53	1	569	1516	569	0	184		
		2	908	908	450	450		2	1200	1200	127	127			
80,5	175	1	702	1035	702	368	54	1	590	1575	590	0	186		
		2	938	938	469	469		2	1245	1245	132	132			
85,0	200	1	775	1130	775	420	57	1	646	1748	646	0	196		
		2	1026	1026	524	524		2	1378	1378	142	142			
89,5	225	1	849	1228	849	470	59	1	702	1933	702	0	207		
		2	1117	1117	581	581		2	1518	1518	150	150			
94,0	285	1	1011	1416	1011	605	62	1	842	2299	842	0	227		
		2	1297	1297	724	724		2	1809	1809	183	183			

3.2.6.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 16 - 80/100

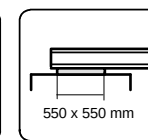
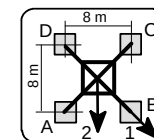
Corner distance 8,0 m x 8,0 m

Jib 40 m

[illegible]

3.2.6.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 16 - 80/100

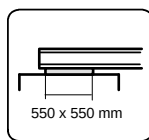
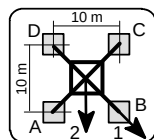
Corner distance 8,0 m x 8,0 m

Jib 45 m

[illegible]

3.2.7.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 16 - 80/100

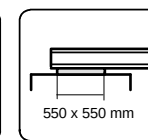
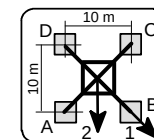
Corner distance 10,0 m x 10,0 m

Jib 30 m

[illegible]

3.2.7.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 16 - 80/100

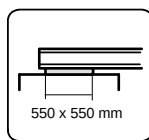
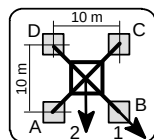
Corner distance 10,0 m x 10,0 m

Jib 40 m

[illegible]

3.2.7.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KR 16 - 80/100

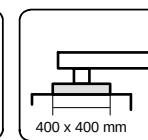
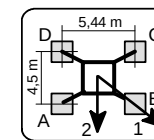
Corner distance 10,0 m x 10,0 m

Jib 45 m

[illegible]

3.3.1.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 250

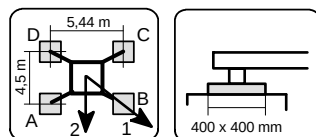
Corner distance 4,5 m x 5,44 m

Jib 30 m

[illegible]

3.3.1.2 Centerballasts and Cornerloads acc. to DIN 15019

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

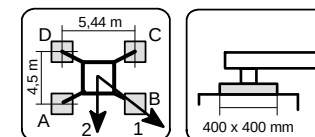


KRE 250	Corner distance 4,5 m x 5,44 m	Jib 40 m
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[illegible]

3.3.1.3 Centerballasts and Cornerloads acc. to DIN 15019

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

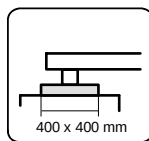
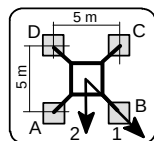


KRE 250	Corner distance 4,5 m x 5,44 m	Jib 45 m
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[illegible]

3.3.2.1 Centerballasts and Cornerloads acc. to DIN 15019

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

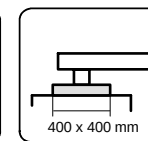
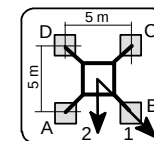


KRE 250	Corner distance 5,0 m x 5,0 m	Jib 30 m
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[illegible]

3.3.2.2 Centerballasts and Cornerloads acc. to DIN 15019

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

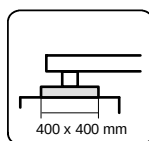
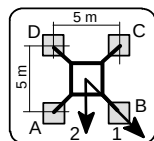


KRE 250	Corner distance 5,0 m x 5,0 m	Jib 40 m
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[illegible]

3.3.2.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 250

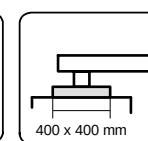
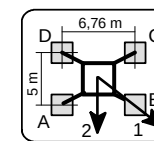
Corner distance 5,0 m x 5,0 m

Jib 45 m

[illegible]

3.3.3.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.1

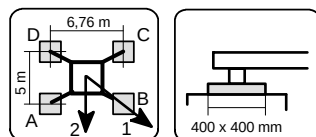
Corner distance 5,0 m x 6,79 m

Jib 30 m

[illegible]

3.3.3.2 Centerballasts and Cornerloads acc. to DIN 15019

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

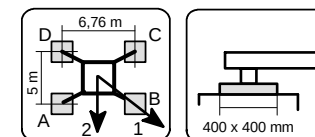


KRE 260.1	Corner distance 5,0 m x 6,79 m	Jib 40 m
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[illegible]

3.3.3.3 Centerballasts and Cornerloads acc. to DIN 15019

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

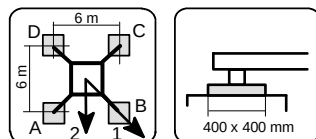


KRE 260.1	Corner distance 5,0 m x 6,79 m	Jib 45 m
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[illegible]

3.3.4.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.1

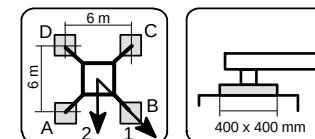
Corner distance 6,0 m x 6,0 m

Jib 30 m

[illegible]

3.3.4.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.1

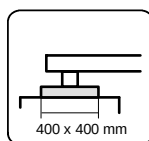
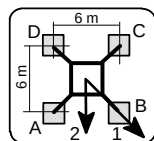
Corner distance 6,0 m x 6,0 m

Jib 40 m

[illegible]

3.3.4.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.1

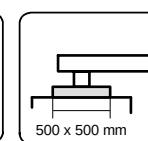
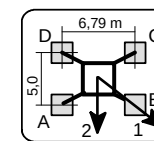
Corner distance 6,0 m x 6,0 m

Jib 45 m

[illegible]

3.3.5.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.2

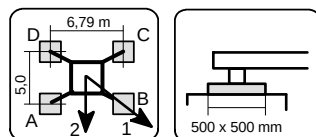
Corner distance 5,0 m x 6,79 m

Jib 30 m

[illegible]

3.3.5.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.2

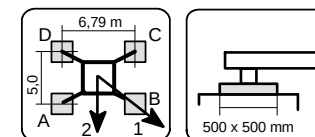
Corner distance 5,0 m x 6,79 m

Jib 30 m

[illegible]

3.3.5.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.2

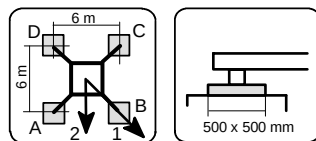
Corner distance 5,0 m x 6,79 m

Jib 45 m

[illegible]

3.3.6.1 Centerballasts and Cornerloads acc. to DIN 15019

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

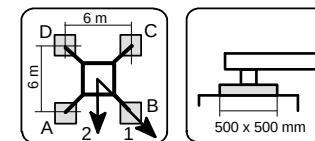


KRE 260.2	Corner distance 6,0 m x 6,0 m	Jib 30 m
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[illegible]

3.3.6.2 Centerballasts and Cornerloads acc. to DIN 15019

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

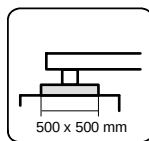
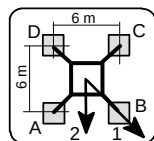


KRE 260.2	Corner distance 6,0 m x 6,0 m	Jib 40 m
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[illegible]

3.3.6.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 260.2

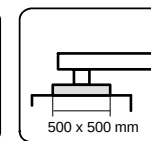
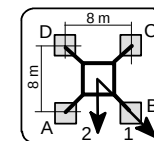
Corner distance 6,0 m x 6,0 m

Jib 30 m

[illegible]

3.3.7.1 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 480

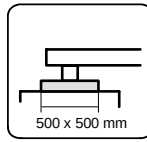
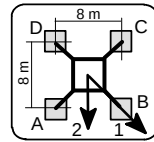
Corner distance 8,0 m x 8,0 m

Jib 30 m

[illegible]

3.3.7.2 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 480

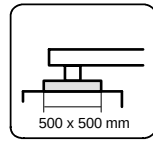
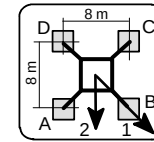
Corner distance 8,0 m x 8,0 m

Jib 40 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm					Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm					Horizontal force [kN]
			Cornerloads				Cornerloads								
			A [kN]	B [kN]	C [kN]	D [kN]	A [kN]			B [kN]	C [kN]	D [kN]			
8,5	0	1	177	295	177	59	27	1	162	220	162	105	87		
		2	261	261	94	94		2	203	203	121	121			
13,0	0	1	182	308	182	56	28	1	167	246	167	87	92		
		2	271	271	93	93		2	223	223	110	110			
17,5	0	1	186	321	186	51	30	1	171	278	171	65	96		
		2	282	282	91	91		2	247	247	96	96			
22,0	0	1	191	335	191	46	31	1	176	311	176	40	101		
		2	293	293	89	89		2	272	272	80	80			
26,5	0	1	195	350	195	40	33	1	180	351	180	10	108		
		2	305	305	86	86		2	301	301	60	60			
31,0	5	1	200	367	200	33	34	1	161	418	161	0	114		
		2	318	318	82	82		2	333	333	37	37			
35,5	20	1	242	421	242	62	36	1	203	501	203	0	121		
		2	369	369	115	115		2	404	404	49	49			
40,0	35	1	284	477	284	90	37	1	242	592	242	0	128		
		2	421	421	147	147		2	478	478	59	59			
44,5	50	1	326	535	326	117	39	1	277	691	277	0	134		
		2	474	474	178	178		2	555	555	67	67			
49,0	65	1	368	593	368	143	40	1	308	798	308	0	141		
		2	527	527	209	209		2	635	635	71	71			
53,5	80	1	415	656	415	174	43	1	346	908	346	0	150		
		2	586	586	245	245		2	722	722	79	79			
58,0	100	1	472	731	472	213	45	1	399	1031	399	0	158		
		2	656	656	289	289		2	822	822	93	93			
62,5	115	1	517	796	517	238	46	1	422	1163	422	0	166		
		2	714	714	320	320		2	913	913	90	90			
67,0	135	1	579	877	579	282	49	1	475	1308	475	0	179		
		2	790	790	369	369		2	1027	1027	102	102			

3.3.7.3 Centerballasts and Cornerloads acc. to DIN 15019

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



KRE 480

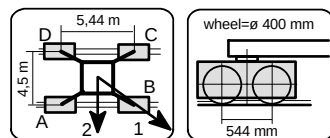
Corner distance 8,0 m x 8,0 m

Jib 45 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm					Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm					Horizontal force [kN]
			Cornerloads				Cornerloads								
			A [kN]	B [kN]	C [kN]	D [kN]	A [kN]			B [kN]	C [kN]	D [kN]			
8,5	0	1	169	313	169	24	28	1	169	238	169	100	90		
		2	271	271	66	66		2	218	218	121	121			
13,0	0	1	173	326	173	20	29	1	174	269	174	79	95		
		2	281	281	65	65		2	241	241	107	107			
17,5	0	1	178	339	178	16	31	1	178	302	178	55	99		
		2	292	292	63	63		2	266	266	91	91			
22,0	0	1	182	354	182	10	32	1	183	337	183	29	104		
		2	304	304	61	61		2	292	292	74	74			
26,5	5	1	187	370	187	4	34	1	185	380	185	0	111		
		2	316	316	57	57		2	322	322	53	53			
31,0	10	1	204	399	204	9	35	1	180	460	180	0	117		
		2	342	342	66	66		2	367	367	42	42			
35,5	25	1	246	454	246	38	37	1	220	547	220	0	124		
		2	393	393	99	99		2	440	440	53	53			
40,0	40	1	288	510	288	65	38	1	257	641	257	0	131		
		2	445	445	131	131		2	516	516	62	62			
44,5	55	1	330	568	330	92	40	1	290	743	290	0	137		
		2	498	498	162	162		2	594	594	68	68			
49,0	70	1	377	630	377	124	42	1	331	851	331	0	147		
		2	556	556	198	198		2	679	679	77	77			
53,5	85	1	422	692	422	151	44	1	361	969	361	0	155		
		2	613	613	230	230		2	765	765	80	80			
58,0	105	1	479	768	479	189	46	1	411	1097	411	0	163		
		2	683	683	274	274		2	868	868	92	92			
62,5	125	1	536	845	536	226	48	1	454	1238	454	0	171		
		2	755	755	317	317		2	975	975	99	99			

3.4.1.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device

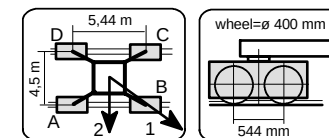


UW 250	Corner distance 4,5 m x 5,44 m	Jib 30 m
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[illegible]

3.4.1.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device

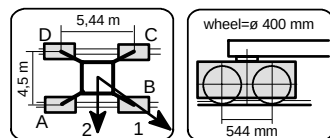


UW 250	Corner distance 4,5 m x 5,44 m	Jib 40 m
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[illegible]

3.4.1.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device

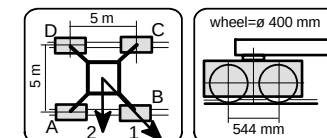


UW 250	Corner distance 4,5 m x 5,44 m	Jib 45 m
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[illegible]

3.4.2.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 250	Corner distance 5,0 m x 5,0 m	Jib 30 m
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[illegible]

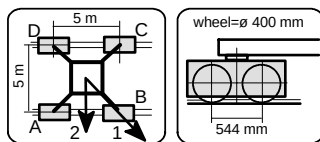
WOLFF 100 B

Static data

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3.4.2.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 250	Corner distance 5,0 m x 5,0 m	Jib 40 m
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[illegible]

962-4-027390-2E

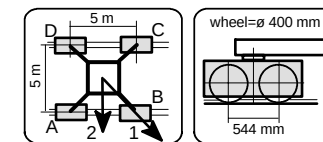
WOLFF 100 B

Static data

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3.4.2.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



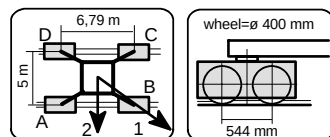
UW 250	Corner distance 5,0 m x 5,0 m	Jib 45 m
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[illegible]

962-4-027390-3E

3.4.3.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.1

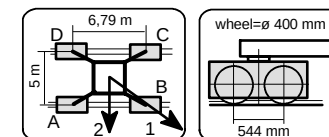
Corner distance 5 m x 6,79 m

Jib 30 m

[illegible]

3.4.3.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.1

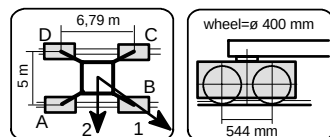
Corner distance 5 m x 6,79 m

Jib 40 m

[illegible]

3.4.3.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.1

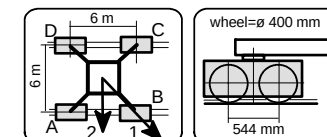
Corner distance 5 m x 6,79 m

Jib 45 m

[illegible]

3.4.4.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.1

Corner distance 6,0 m x 6,0 m

Jib 30 m

[illegible]

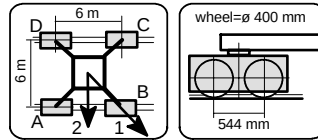
WOLFF 100 B

Static data

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3.4.4.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.1	Corner distance 6,0 m x 6,0 m	Jib 40 m
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[illegible]

962-4-027392-2E

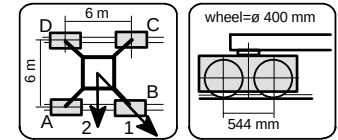
WOLFF 100 B

Static data

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3.4.4.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



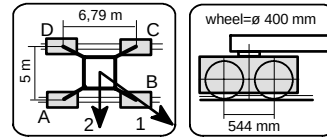
UW 260.1	Corner distance 6,0 m x 6,0 m	Jib 45 m
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[illegible]

962-4-027392-3E

3.4.5.1 Centerballasts and Cornerloads acc. to DIN 15019

for travelling tower crane on undercarriage
without climbing device

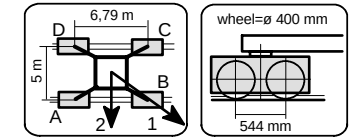


UW 260.2	Corner distance 5,0 m x 6,79 m	Jib 30 m
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Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm				Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm				Horizontal force [kN]
			Cornerloads						Cornerloads				
			A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
9,0	35	1	280	409	170	40	29	1	191	247	144	89	76
		2	373	373	76	76		2	239	239	185	185	
13,5	35	1	287	425	171	34	30	1	234	276	199	156	81
		2	387	387	72	72		2	264	264	168	168	
18,0	35	1	296	442	172	26	32	1	247	310	194	132	86
		2	402	402	66	66		2	292	292	149	149	
22,5	35	1	281	463	146	7	34	1	264	355	187	96	92
		2	418	418	59	59		2	330	330	121	121	
27,0	45	1	339	506	197	30	35	1	307	430	203	79	99
		2	459	459	77	77		2	396	396	114	114	
31,5	55	1	373	552	222	43	37	1	351	510	218	59	106
		2	503	503	92	92		2	466	466	103	103	
36,0	70	1	421	613	259	66	39	1	410	607	243	46	112
		2	560	560	120	120		2	552	552	101	101	

3.4.5.2 Centerballasts and Cornerloads acc. to DIN 15019

for travelling tower crane on undercarriage
without climbing device

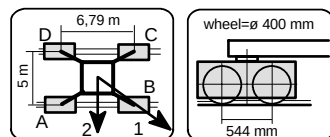


UW 260.2	Corner distance 5 m x 6,79 m	Jib 40 m
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[illegible]

3.4.5.3 Centerballasts and Cornerloads acc. to DIN 15019

for travelling tower crane on undercarriage
without climbing device



UW 260.2

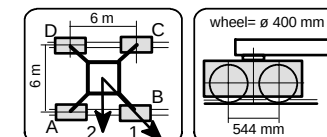
Corner distance 5,0 m x 6,79 m

Jib 45 m

[illegible]

3.4.6.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.2

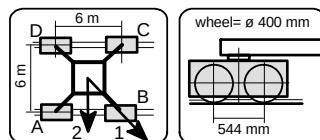
Corner distance 6,0 m x 6,0 m

Jib 30 m

[illegible]

3.4.6.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device

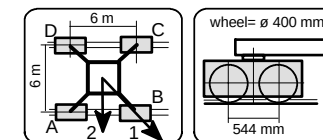


UW 260.2	Corner distance 6,0 m x 6,0 m	Jib 40 m
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[illegible]

3.4.6.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.2	Corner distance 6,0 m x 6,0 m	Jib 45 m
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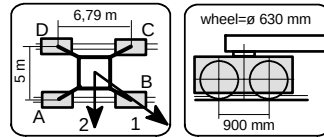
[illegible]

WOLFF 100 B

Static data
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3.4.7.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.3	Corner distance 5,0 m x 6,79 m	Jib 30 m
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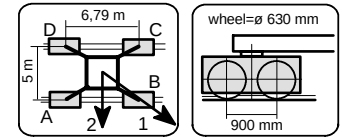
[illegible]

WOLFF 100 B

Static data
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3.4.7.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.3	Corner distance 5,0 m x 6,79 m	Jib 40 m
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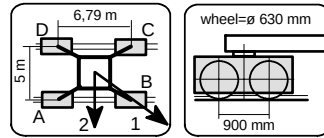
[illegible]

WOLFF 100 B

Static data
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3.4.7.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device

[illegible]

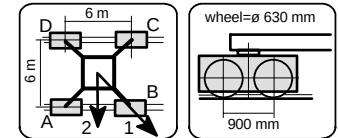
962-4-027395-3E

WOLFF 100 B

Static data
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3.4.8.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device

[illegible]

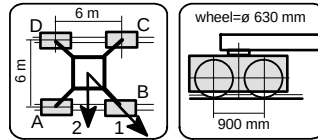
962-4-027396-1E

WOLFF 100 B

Static data
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3.4.8.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.3 **Corner distance 6,0 m x 6,0 m** **Jib 40 m**

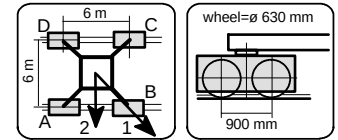
[illegible]

WOLFF 100 B

Static data
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3.4.8.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 260.3	Corner distance 6,0 m x 6,0 m	Jib 45 m
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[illegible]

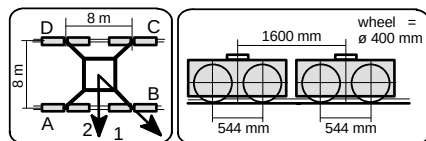
WOLFF 100 B

Static data

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3.4.9.1 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 480	Corner distance 8,0 m x 8,0 m	Jib 30 m
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[illegible]

962-4-027397-1E

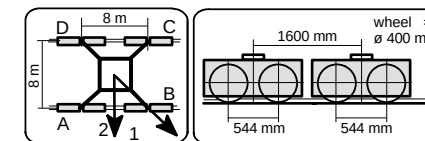
WOLFF 100 B

Static data

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3.4.9.2 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



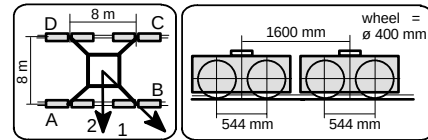
UW 480	Corner distance 8,0 m x 8,0 m	Jib 40 m
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[illegible]

962-4-027397-2E

3.4.9.3 Centerballasts and Cornerloads acc. to DIN 15019

for a travelling tower crane on undercarriage
without climbing device



UW 480 Corner distance 8,0 m x 8,0 m Jib 45 m

Tower height [m]	Centerballasts [t]	Jib position	Crane in service torque moment: 140 kNm					Horizontal force [kN]	Jib position	Crane out of service torque moment: 0 kNm					Horizontal force [kN]
			Cornerloads							Cornerloads					
			A [kN]	B [kN]	C [kN]	D [kN]				A [kN]	B [kN]	C [kN]	D [kN]		
9,5	0	1	193	350	193	37	35		1	194	270	194	119	90	
		2	304	304	83	83			2	248	248	141	141		
14,0	0	1	198	365	198	31	37		1	199	301	199	97	95	
		2	316	316	80	80			2	271	271	127	127		
18,5	0	1	202	382	202	24	39		1	203	334	203	73	99	
		2	329	329	76	76			2	296	296	111	111		
23,0	0	1	199	407	199	24	40		1	208	373	208	43	106	
		2	342	342	72	72			2	324	324	91	91		
27,5	5	1	194	434	194	24	42		1	199	429	199	24	113	
		2	356	356	67	67			2	355	355	70	70		
32,0	15	1	239	463	239	24	44		1	217	510	217	24	119	
		2	396	396	86	86			2	414	414	71	71		
36,5	30	1	283	519	283	48	45		1	257	598	257	24	126	
		2	450	450	117	117			2	487	487	81	81		
41,0	45	1	325	578	325	73	47		1	293	694	293	24	132	
		2	504	504	147	147			2	563	563	90	90		
45,5	60	1	367	639	367	96	49		1	326	797	326	24	139	
		2	559	559	175	175			2	641	641	95	95		
50,0	75	1	414	704	414	125	51		1	365	907	365	24	149	
		2	619	619	209	209			2	727	727	103	103		
54,5	90	1	459	770	459	148	54		1	394	1027	394	24	157	
		2	679	679	239	239			2	814	814	106	106		
59,0	110	1	516	849	516	183	56		1	442	1159	442	24	165	
		2	752	752	280	280			2	918	918	116	116		
63,5	135	1	586	944	586	228	58		1	510	1302	510	24	174	
		2	839	839	333	333			2	1038	1038	135	135		