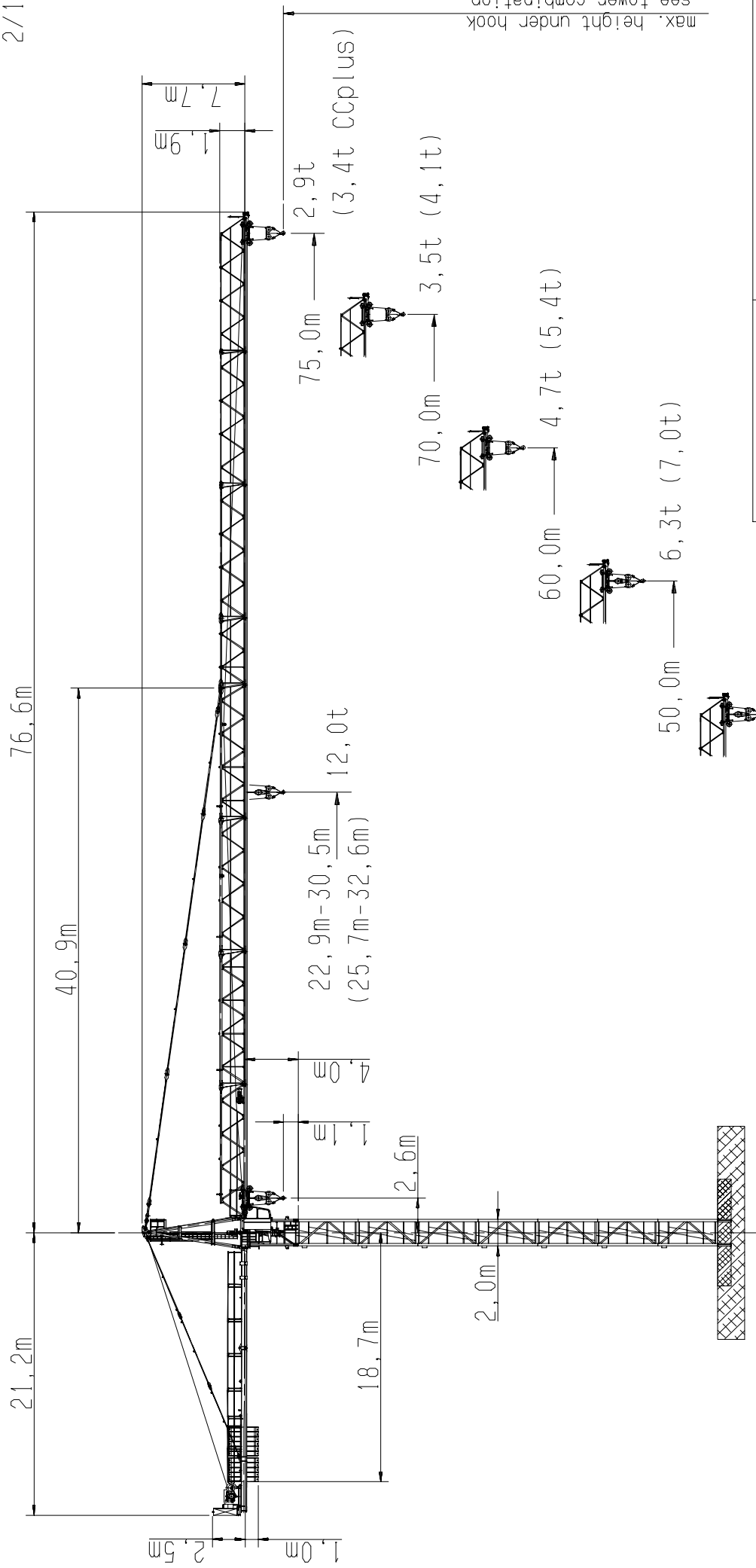
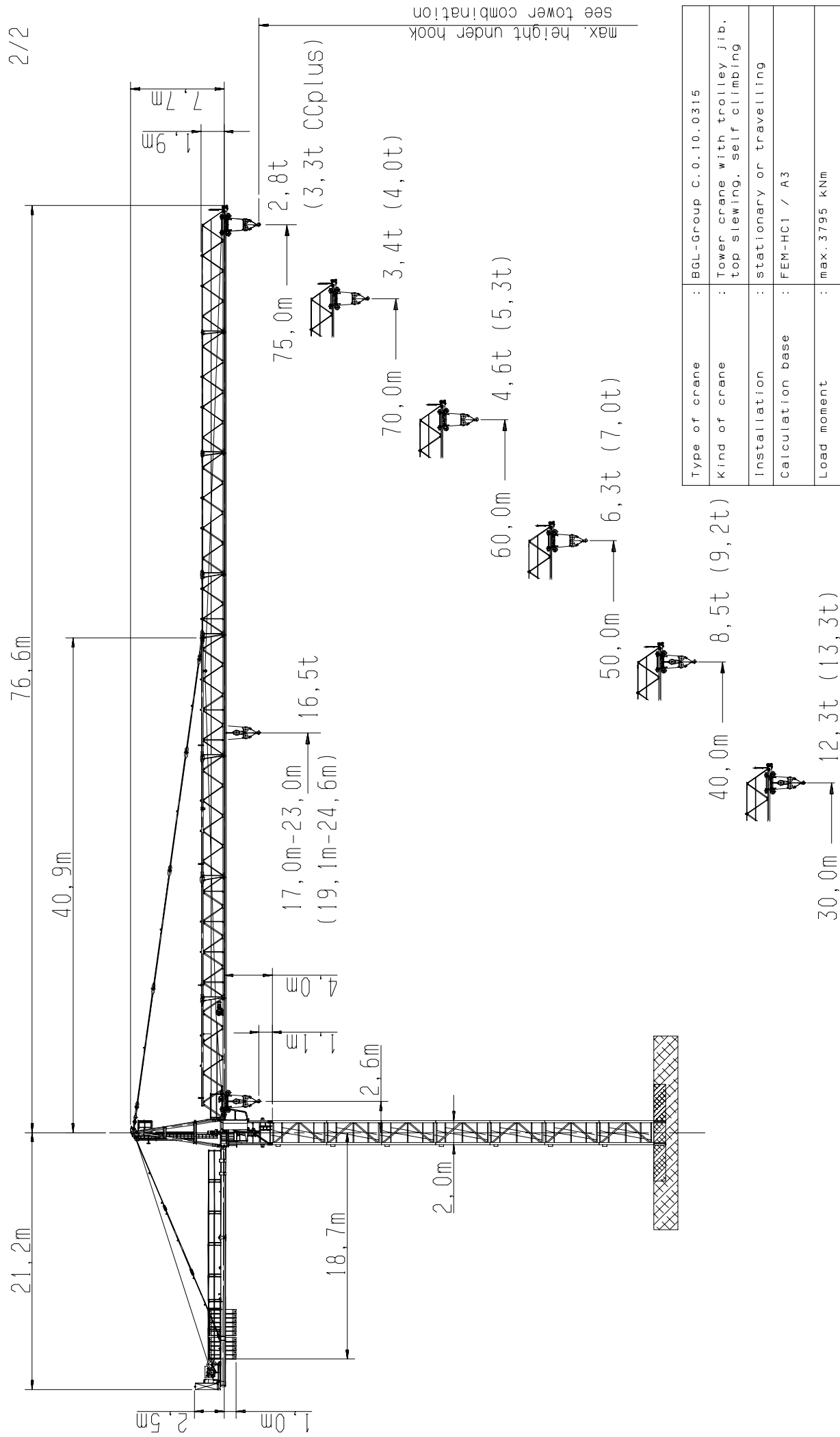




max. height under hook
see tower combination

Type of crane	: BGL-Group C.O.10.0315
Kind of crane	: Tower crane with trolley jib, top slewing, self climbing
Installation	: stationary or travelling
Calculation base	: FEM-HC1 / A3
Load moment	: max. 3660 kNm

PLANING DIAGRAM 7532 962-3-025157E
(Hw 645 FU / Hw 675 FU)



PLANING DIAGRAM 7532

962-3-025162E

(Hw 87FU)

2.2.1.1

Load capacity table

radius [m]		25	30	35	40	45	50	55	60	65	70	75	load capacity [t]
length of jib [m]	75	2,6 - 22,9	10,9	8,9	7,4	6,3	5,5	4,8	4,3	3,8	3,4	3,1	
	70	2,6 - 24,5	11,8	9,6	8,0	6,9	6,0	5,3	4,7	4,2	3,8	3,4	
	65	2,6 - 25,7	12,0	10,1	8,5	7,3	6,3	5,6	5,0	4,4	4,0		
	60	2,6 - 26,5	12,0	10,4	8,8	7,5	6,6	5,8	5,1	4,6			
	55	2,6 - 27,6	12,0	10,9	9,2	7,9	6,9	6,1	5,4				
	50	2,6 - 28,4	12,0	11,3	9,5	8,2	7,1	6,3					
	45	2,6 - 29,3	12,0	11,7	9,9	8,5	7,4						
	40	2,6 - 29,7	12,0	11,9	10,0	8,6							
	35	2,6 - 30,5	12,0	12,0	10,3								
	30	2,6 - 30,0	12,0	12,0									
length of jib [m]	75	2,6 - 42,4	6,0	6,0	6,0	6,0	5,6	4,9	4,4	3,9	3,5	3,2	load capacity [t]
	70	2,6 - 45,4	6,0	6,0	6,0	6,0	5,4	4,8	4,3	3,9	3,5		
	65	2,6 - 47,7	6,0	6,0	6,0	6,0	5,7	5,1	4,5	4,1			
	60	2,6 - 49,1	6,0	6,0	6,0	6,0	5,9	5,2	4,7				
	55	2,6 - 51,1	6,0	6,0	6,0	6,0	6,0	5,5					
	50	2,6 - 50,0	6,0	6,0	6,0	6,0	6,0	6,0					
	45	2,6 - 45,0	6,0	6,0	6,0	6,0	6,0						
	40	2,6 - 40,0	6,0	6,0	6,0	6,0							
	35	2,6 - 35,0	6,0	6,0	6,0								
	30	2,6 - 30,0	6,0	6,0									

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,4 kg per meter hook path, with 4 fall operation = 4,8 kg per meter hook path).

Arrangement of counterweights with hoisting winch

Hw 645 FU

jib [m]		75	70	65	60	55
2 t	11 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	31,7	29,0	29,0	26,3	23,6
total weight [t]		31,7	29,0	29,0	26,3	23,6
jib [m]		50	45	40	35	30
2 t	7 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	20,9	18,2	18,2	15,5	12,8
total weight [t]		20,9	18,2	18,2	15,5	12,8

962-4-025031E

2.2.1.2

Load capacity table

(these load values are switch-off values)

radius [m]		25	30	35	40	45	50	55	60	65	70	75	load capacity [t]
length of jib [m]	75	2,6 - 25,7	12,0	10,1	8,5	7,3	6,3	5,6	5,0	4,4	4,0	3,6	
	70	2,6 - 27,7	12,0	11,0	9,2	7,9	6,9	6,1	5,4	4,9	4,4	4,0	
	65	2,6 - 29,1	12,0	11,6	9,8	8,4	7,3	6,5	5,8	5,2	4,7		
	60	2,6 - 29,6	12,0	11,8	10,0	8,6	7,5	6,6	5,9	5,3			
	55	2,6 - 30,5	12,0	12,0	10,3	8,9	7,7	6,8	6,1				
	50	2,6 - 31,1	12,0	12,0	10,5	9,1	7,9	7,0					
	45	2,6 - 31,7	12,0	12,0	10,8	9,3	8,1						
	40	2,6 - 31,8	12,0	12,0	10,8	9,3							
	35	2,6 - 32,6	12,0	12,0	11,1								
	30	2,6 - 30,0	12,0	12,0									
length of jib [m]	75	2,6 - 47,6	6,0	6,0	6,0	6,0	6,0	5,7	5,1	4,5	4,1	3,7	load capacity [t]
	70	2,6 - 51,3	6,0	6,0	6,0	6,0	6,0	5,5	5,0	4,5	4,1		
	65	2,6 - 54,1	6,0	6,0	6,0	6,0	6,0	5,9	5,3	4,8			
	60	2,6 - 55,0	6,0	6,0	6,0	6,0	6,0	6,0	5,4				
	55	2,6 - 55,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0				
	50	2,6 - 50,0	6,0	6,0	6,0	6,0	6,0	6,0					
	45	2,6 - 45,0	6,0	6,0	6,0	6,0	6,0						
	40	2,6 - 40,0	6,0	6,0	6,0	6,0							
	35	2,6 - 35,0	6,0	6,0	6,0								
	30	2,6 - 30,0	6,0	6,0									

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,4 kg per meter hook path, with 4 fall operation = 4,8 kg per meter hook path).

Arrangement of counterweights with hoisting winch

Hw 645 FU

jib [m]		75	70	65	60	55
2 t	11 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	31,7	29,0	29,0	26,3	23,6
total weight [t]		31,7	29,0	29,0	26,3	23,6
jib [m]		50	45	40	35	30
2 t	7 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	20,9	18,2	18,2	15,5	12,8
total weight [t]		20,9	18,2	18,2	15,5	12,8

962-4-025032E

2.2.1.3

Load capacity table

radius [m]		25	30	35	40	45	50	55	60	65	70	75	load capacity [t]
length of jib [m]	75	2,6 - 22,9	10,9	8,9	7,4	6,3	5,5	4,8	4,3	3,8	3,4	3,1	
	70	2,6 - 24,5	11,8	9,6	8,0	6,9	6,0	5,3	4,7	4,2	3,8	3,4	
	65	2,6 - 25,7	12,0	10,1	8,5	7,3	6,3	5,6	5,0	4,4	4,0		
	60	2,6 - 26,5	12,0	10,4	8,8	7,5	6,6	5,8	5,1	4,6			
	55	2,6 - 27,6	12,0	10,9	9,2	7,9	6,9	6,1	5,4				
	50	2,6 - 28,4	12,0	11,3	9,5	8,2	7,1	6,3					
	45	2,6 - 29,3	12,0	11,7	9,9	8,5	7,4						
	40	2,6 - 29,7	12,0	11,9	10,0	8,6							
	35	2,6 - 30,5	12,0	12,0	10,3								
	30	2,6 - 30,0	12,0	12,0									
length of jib [m]	75	2,6 - 42,4	6,0	6,0	6,0	6,0	5,6	4,9	4,4	3,9	3,5	3,2	load capacity [t]
	70	2,6 - 45,4	6,0	6,0	6,0	6,0	5,4	4,8	4,3	3,9	3,5		
	65	2,6 - 47,7	6,0	6,0	6,0	6,0	5,7	5,1	4,5	4,1			
	60	2,6 - 49,1	6,0	6,0	6,0	6,0	5,9	5,2	4,7				
	55	2,6 - 51,1	6,0	6,0	6,0	6,0	6,0	5,5					
	50	2,6 - 50,0	6,0	6,0	6,0	6,0	6,0						
	45	2,6 - 45,0	6,0	6,0	6,0	6,0	6,0						
	40	2,6 - 40,0	6,0	6,0	6,0	6,0							
	35	2,6 - 35,0	6,0	6,0	6,0								
	30	2,6 - 30,0	6,0	6,0									

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,4 kg per meter hook path, with 4 fall operation = 4,8 kg per meter hook path).

Arrangement of counterweights with hoisting winch

Hw 675 FU

jib [m]		75	70	65	60	55
2 t	11 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	31,7	29,0	29,0	26,3	23,6
total weight [t]		31,7	29,0	29,0	26,3	23,6
jib [m]		50	45	40	35	30
2 t	7 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	20,9	18,2	18,2	15,5	12,8
total weight [t]		20,9	18,2	18,2	15,5	12,8

2.2.1.4

Load capacity table

(these load values are switch-off values)

radius [m]		25	30	35	40	45	50	55	60	65	70	75	load capacity [t]
length of jib [m]	75	2,6 - 25,7	12,0	10,1	8,5	7,3	6,3	5,6	5,0	4,4	4,0	3,6	
	70	2,6 - 27,7	12,0	11,0	9,2	7,9	6,9	6,1	5,4	4,9	4,4	4,0	
	65	2,6 - 29,1	12,0	11,6	9,8	8,4	7,3	6,5	5,8	5,2	4,7		
	60	2,6 - 29,6	12,0	11,8	10,0	8,6	7,5	6,6	5,9	5,3			
	55	2,6 - 30,5	12,0	12,0	10,3	8,9	7,7	6,8	6,1				
	50	2,6 - 31,1	12,0	12,0	10,5	9,1	7,9	7,0					
	45	2,6 - 31,7	12,0	12,0	10,8	9,3	8,1						
	40	2,6 - 31,8	12,0	12,0	10,8	9,3							
	35	2,6 - 32,6	12,0	12,0	11,1								
	30	2,6 - 30,0	12,0	12,0									
length of jib [m]	75	2,6 - 47,6	6,0	6,0	6,0	6,0	6,0	5,7	5,1	4,5	4,1	3,7	load capacity [t]
	70	2,6 - 51,3	6,0	6,0	6,0	6,0	6,0	5,5	5,0	4,5	4,1		
	65	2,6 - 54,1	6,0	6,0	6,0	6,0	6,0	5,9	5,3	4,8			
	60	2,6 - 55,0	6,0	6,0	6,0	6,0	6,0	6,0	5,4				
	55	2,6 - 55,0	6,0	6,0	6,0	6,0	6,0	6,0	6,0				
	50	2,6 - 50,0	6,0	6,0	6,0	6,0	6,0	6,0					
	45	2,6 - 45,0	6,0	6,0	6,0	6,0	6,0						
	40	2,6 - 40,0	6,0	6,0	6,0	6,0							
	35	2,6 - 35,0	6,0	6,0	6,0								
	30	2,6 - 30,0	6,0	6,0									

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,4 kg per meter hook path, with 4 fall operation = 4,8 kg per meter hook path).

Arrangement of counterweights with hoisting winch

Hw 675 FU

jib [m]		75	70	65	60	55
2 t	11 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	31,7	29,0	29,0	26,3	23,6
total weight [t]		31,7	29,0	29,0	26,3	23,6
jib [m]		50	45	40	35	30
2 t	7 x 2,7 t	to tower →	to tower →	to tower →	to tower →	to tower →
	intermediate ballasting = 1 x 2,7 t see assembly, section 5	20,9	18,2	18,2	15,5	12,8
total weight [t]		20,9	18,2	18,2	15,5	12,8

2.2.1.5

Load capacity table

radius [m]			25	30	35	40	45	50	55	60	65	70	75	load capacity [t]
length of jib [m]	75	2,6 - 17,0	10,8	8,8	7,3	6,2	5,4	4,7	4,2	3,7	3,3	3,0	2,7	
	70	2,6 - 18,2	11,7	9,5	7,9	6,8	5,9	5,2	4,6	4,1	3,7	3,3		
	65	2,6 - 19,1	12,3	10,0	8,4	7,2	6,2	5,5	4,9	4,3	3,9			
	60	2,6 - 19,6	12,7	10,3	8,7	7,4	6,5	5,7	5,0	4,5				
	55	2,6 - 20,5	13,3	10,8	9,1	7,8	6,8	6,0	5,3					
	50	2,6 - 21,1	13,7	11,2	9,4	8,1	7,0	6,2						
	45	2,6 - 21,8	14,2	11,6	9,8	8,4	7,3							
	40	2,6 - 22,1	14,4	11,8	9,9	8,5								
	35	2,6 - 22,6	14,8	12,1	10,2									
30	2,6 - 23,0	15,0	12,3											
length of jib [m]	75	2,6 - 31,8	8,3	8,3	7,4	6,3	5,5	4,8	4,3	3,8	3,4	3,1	2,8	load capacity [t]
	70	2,6 - 34,0	8,3	8,3	8,0	6,9	6,0	5,3	4,7	4,2	3,8	3,4		
	65	2,6 - 35,7	8,3	8,3	8,2	7,3	6,3	5,6	5,0	4,4	4,0			
	60	2,6 - 36,7	8,3	8,3	8,3	7,5	6,6	5,8	5,1	4,6				
	55	2,6 - 38,3	8,3	8,3	8,3	7,9	6,9	6,1	5,4					
	50	2,6 - 39,5	8,3	8,3	8,3	8,2	7,1	6,3						
	45	2,6 - 40,8	8,3	8,3	8,3	8,3	7,4							
	40	2,6 - 40,0	8,3	8,3	8,3	8,3								
	35	2,6 - 35,0	8,3	8,3	8,3									
	30	2,6 - 30,0	8,3	8,3										

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,5 kg per meter hook path, with 4 fall operation = 5,0 kg per meter hook path).

Arrangement of counterweights with hoisting winch

Hw 875 FU

jib [m]		75	70	65	60	55
2 t	11 x 2,7 t					
	to tower →	31,7	29,0	29,0	26,3	23,6
		intermediate ballasting = 1 x 2,7 t see assembly, section 5				
		total weight [t]				
jib [m]		50	45	40	35	30
2 t	7 x 2,7 t					
	to tower →	20,9	18,2	18,2	15,5	12,8
		total weight [t]				

2.2.1.6

Load capacity table

(these load values are switch-off values)

Ausladung [m]			25	30	35	40	45	50	55	60	65	70	75	Tragfähigkeit [t]
length of jib [m]	75	2,6 - 19,1	12,3	10,0	8,4	7,2	6,2	5,5	4,9	4,3	3,9	3,5	3,2	
	70	2,6 - 20,6	13,3	10,9	9,1	7,8	6,8	6,0	5,3	4,8	4,3	3,9		
	65	2,6 - 21,6	14,1	11,5	9,7	8,3	7,2	6,4	5,7	5,1	4,6			
	60	2,6 - 22,0	14,4	11,7	9,9	8,5	7,4	6,5	5,8	5,2				
	55	2,6 - 22,6	14,8	12,1	10,2	8,8	7,6	6,7	6,0					
	50	2,6 - 23,1	15,1	12,4	10,4	9,0	7,8	6,9						
	45	2,6 - 23,6	15,5	12,7	10,7	9,2	8,0							
	40	2,6 - 23,6	15,5	12,7	10,7	9,2								
	35	2,6 - 24,2	15,9	13,1	11,0									
30	2,6 - 24,6	16,2	13,3											
length of jib [m]	75	2,6 - 35,7	8,3	8,3	8,3	7,3	6,3	5,6	5,0	4,4	4,0	3,6	3,3	load capacity [t]
	70	2,6 - 38,4	8,3	8,3	8,3	7,9	6,9	6,1	5,4	4,9	4,4	4,0		
	65	2,6 - 40,5	8,3	8,3	8,3	8,3	7,3	6,5	5,8	5,2	4,7			
	60	2,6 - 41,1	8,3	8,3	8,3	8,3	7,5	6,6	5,9	5,3				
	55	2,6 - 42,3	8,3	8,3	8,3	8,3	7,7	6,8	6,1					
	50	2,6 - 43,2	8,3	8,3	8,3	8,3	7,9	7,0						
	45	2,6 - 44,1	8,3	8,3	8,3	8,3	8,1							
	40	2,6 - 40,0	8,3	8,3	8,3	8,3								
	35	2,6 - 35,0	8,3	8,3	8,3									
	30	2,6 - 30,0	8,3	8,3										

The load capacities refer to a hook path of 42,0 m. With greater hook paths the safe working load will be minimized by the additional weight of the hoisting cable (with 2 fall operation = 2,5 kg per meter hook path, with 4 fall operation = 5,0 kg per meter hook path).

Arrangement of counterweights with hoisting winch

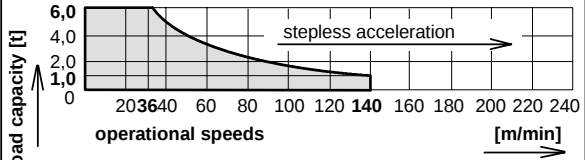
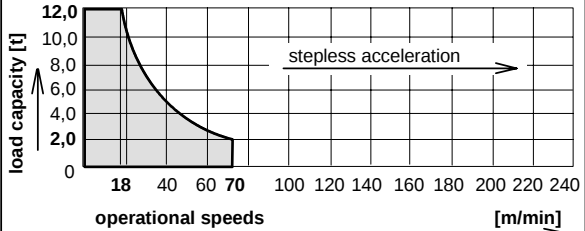
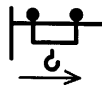
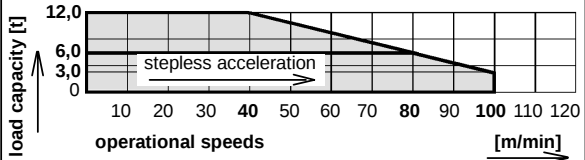
Hw 875 FU

jib [m]		75	70	65	60	55
2 t	11 x 2,7 t					
	to tower →	31,7	29,0	29,0	26,3	23,6
		intermediate ballasting = 1 x 2,7 t see assembly, section 5				
		total weight [t]				
jib [m]		50	45	40	35	30
2 t	7 x 2,7 t					
	to tower →	20,9	18,2	18,2	15,5	12,8
		total weight [t]				

2.2.2.1

Operational speeds

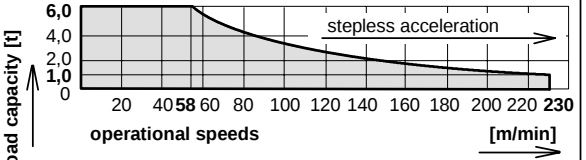
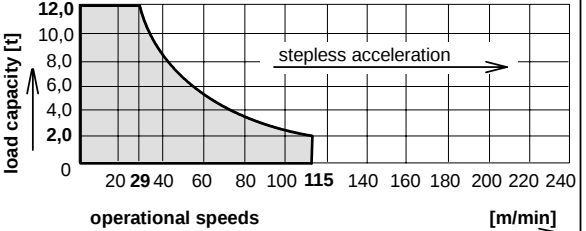
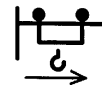
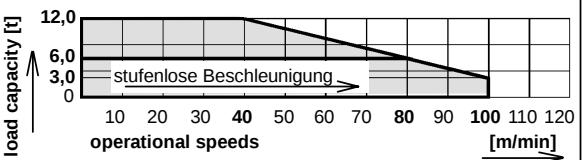
400 V, 50 Hz, 60% ED

drive [model]	operational speeds load capacity	max. lift [m]	output [kW]	total output [kVA]
Hw 645 FU	hoisting 	190	45	68,0 total output for a simultaneity factor of 0,8
	 load capacity [t] operational speeds [m/min] (referred to the fourth layer on drum)			
	 load capacity [t] operational speeds [m/min]	95		
Kw	travelling 		9,0	
	 load capacity [t] operational speeds [m/min]			
Dw	slewing 0,75 min ⁻¹ 		2 x 6,0	
	 operational speeds [min ⁻¹]			

2.2.2.2

Operational speeds

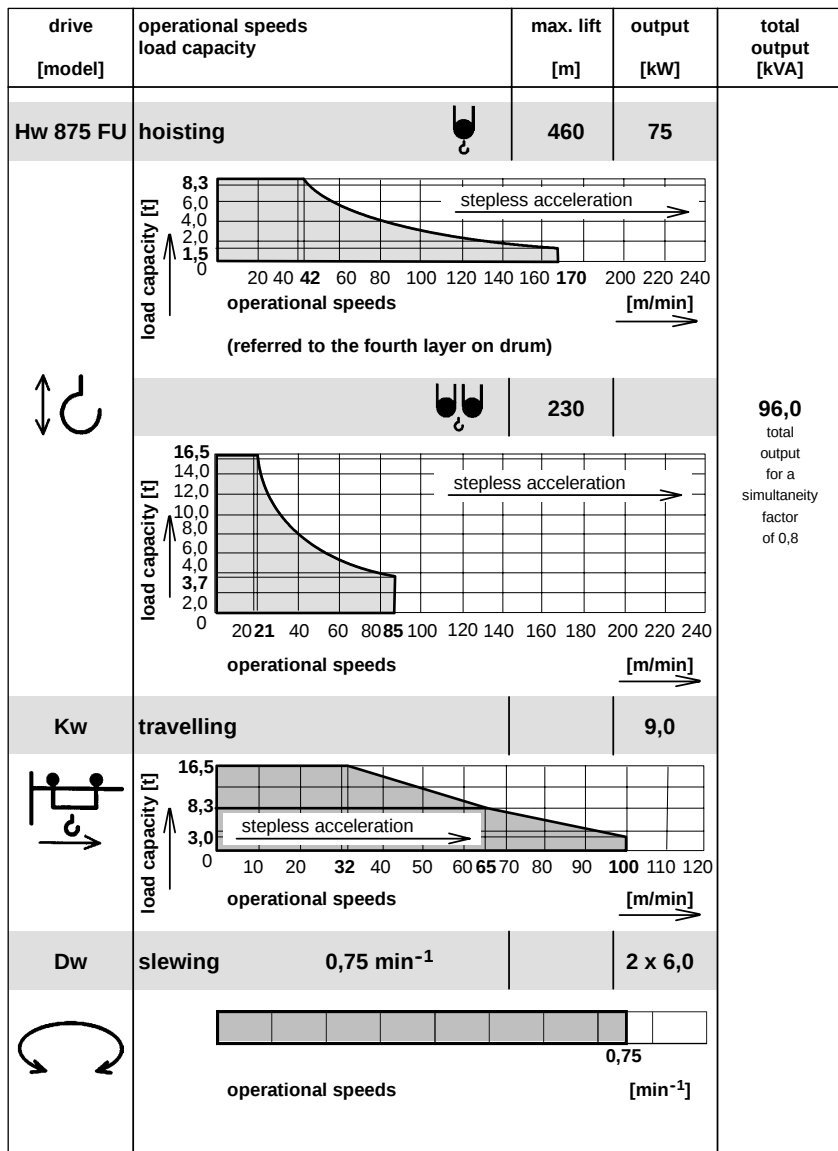
400 V, 50 Hz, 60% ED

drive [model]	operational speeds load capacity	max. lift [m]	output [kW]	total output [kVA]
Hw 675 FU	hoisting 	460	75	96,0 total output for a simultaneity factor of 0,8
	 load capacity [t] operational speeds [m/min] (referred to the fourth layer on drum)			
	 load capacity [t] operational speeds [m/min]	230		
Kw	travelling 		9,0	
	 load capacity [t] operational speeds [m/min]			
Dw	slewing 0,75 min ⁻¹ 		2 x 6,0	
	 operational speeds [min ⁻¹]			

2.2.2.3

Operational speeds

400 V, 50 Hz, 60% ED



2.2.3.1

6 t / Load capacity [kg] Data given in distances of meters

DIN 15018 / H1 - B3

radius [m]	length of jib [m]										
	30	35	40	45	50	55	60	65	70	75	
20	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
21	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
22	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
23	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
24	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
25	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
26	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
27	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
28	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
29	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
30	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	
31		6000	6000	6000	6000	6000	6000	6000	6000	6000	
32		6000	6000	6000	6000	6000	6000	6000	6000	6000	
33		6000	6000	6000	6000	6000	6000	6000	6000	6000	
34		6000	6000	6000	6000	6000	6000	6000	6000	6000	
35		6000	6000	6000	6000	6000	6000	6000	6000	6000	
36			6000	6000	6000	6000	6000	6000	6000	6000	
37			6000	6000	6000	6000	6000	6000	6000	6000	
38			6000	6000	6000	6000	6000	6000	6000	6000	
39			6000	6000	6000	6000	6000	6000	6000	6000	
40			6000	6000	6000	6000	6000	6000	6000	6000	
41				6000	6000	6000	6000	6000	6000	6000	
42				6000	6000	6000	6000	6000	6000	6000	
43				6000	6000	6000	6000	6000	6000	5910	
44				6000	6000	6000	6000	6000	6000	5750	
45				6000	6000	6000	6000	6000	6000	5600	
46					6000	6000	6000	6000	5920	5450	
47					6000	6000	6000	6000	5770	5310	
48					6000	6000	6000	5960	5630	5170	
49					6000	6000	6000	5810	5490	5040	
50					6000	6000	5900	5700	5400	4900	
51						6000	5730	5540	5230	4800	
52							5880	5600	5410	4690	
53							5750	5470	5290	4580	
54							5620	5350	5170	4470	
55							5500	5200	5100	4800	
56								5120	4940	4660	
57								5010	4840	4560	
58								4900	4730	4460	
59								4800	4630	4370	
60								4700	4500	4300	
61									4440	4180	
62									4350	4100	
63									4270	4020	
64									4180	3940	
65									4100	3900	
66										3780	
67										3710	
68										3640	
69										3570	
70										3500	
71											3130
72											3070
73											3010
74											2950
75											2900

The load capacities refer to
a range of lift of 42 m

2.2.3.8 16,5 t / Load capacity [kg] Data given in distances of meters

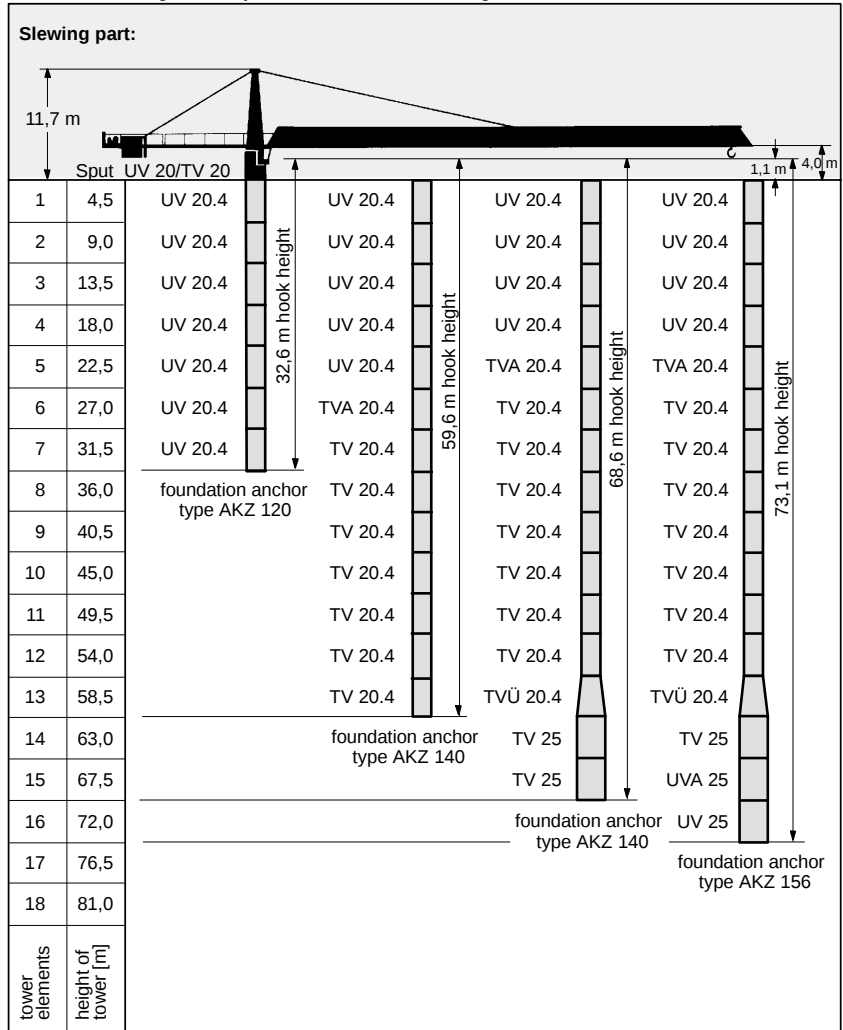
DIN 15018 / H1 - B3

radius [m]	length of jib [m]										
	30	35	40	45	50	55	60	65	70	75	
20	16500	16500	16500	16500	16500	16500	16500	16500	16500	15690	
21	16500	16500	16500	16500	16500	16500	16500	16500	16130	14870	
22	16500	16500	16500	16500	16500	16500	16500	16210	15330	14140	
23	16500	16500	16500	16500	16500	16210	15720	15450	14610	13460	
24	16500	16500	16230	16170	15830	15480	15010	14750	13940	12850	
25	16200	15900	15500	15500	15100	14800	14400	14100	13300	12300	
26	15550	15270	14880	14830	14510	14190	13750	13510	12770	11760	
27	14930	14660	14270	14230	13920	13610	13190	12960	12250	11270	
28	14350	14090	13720	13670	13370	13080	12670	12450	11760	10820	
29	13800	13550	13200	13150	12870	12580	12190	11970	11310	10400	
30	13300	13100	12700	12700	12400	12100	11700	11500	10900	10000	
31		12590	12260	12220	11950	11680	11320	11110	10490	9640	
32		12160	11840	11790	11540	11280	10920	10730	10120	9300	
33		11750	11440	11400	11140	10890	10550	10360	9780	8980	
34		11360	11060	11020	10780	10530	10200	10020	9450	8670	
35		11000	10700	10700	10400	10200	9900	9700	9100	8400	
36			10370	10340	10100	9870	9560	9390	8850	8120	
37			10050	10020	9800	9570	9270	9100	8570	7860	
38			9750	9720	9500	9280	8990	8820	8310	7620	
39			9470	9440	9220	9010	8720	8560	8070	7390	
40			9200	9200	9000	8800	8500	8300	7800	7200	
41				8910	8710	8510	8230	8080	7610	6960	
42				8670	8470	8270	8000	7850	7390	6770	
43				8430	8240	8050	7790	7640	7190	6580	
44				8210	8020	7840	7580	7440	7000	6400	
45				8000	7800	7600	7400	7200	6800	6200	
46					7620	7440	7190	7050	6630	6060	
47					7430	7250	7010	6870	6460	5900	
48					7240	7070	6840	6700	6300	5750	
49					7070	6900	6670	6540	6150	5610	
50					6900	6700	6500	6400	6000	5500	
51						6580	6350	6230	5850	5340	
52						6420	6210	6090	5710	5210	
53						6280	6060	5940	5580	5080	
54						6140	5930	5810	5450	4970	
55						6000	5800	5700	5300	4900	
56							5670	5550	5210	4740	
57							5540	5430	5100	4630	
58							5430	5320	4980	4530	
59							5310	5200	4880	4430	
60							5200	5100	4800	4300	
61								4990	4670	4240	
62								4890	4580	4150	
63								4790	4480	4060	
64								4690	4390	3980	
65								4600	4300	3900	
66									4220	3820	
67									4130	3740	
68									4050	3670	
69									3980	3590	
70									3900	3500	
71										3460	
72										3390	
73										3320	
74										3260	
75										3200	

The load capacities refer to
a range of lift of 42,0 m

2.2.7.1 Tower configurations

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



For data regarding foundation anchors see section 12.

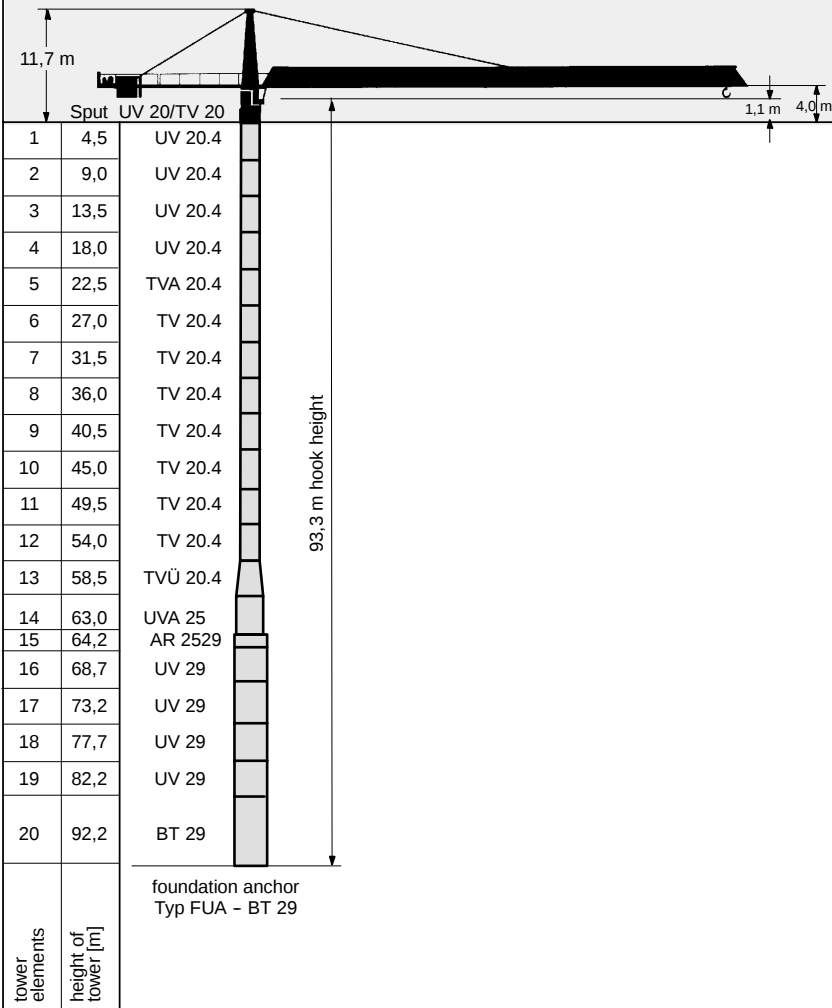
The tower configurations are recommended for economic crane installation and may be used in any case.

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.

2.2.7.2 Tower configurations

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

Slewing part:

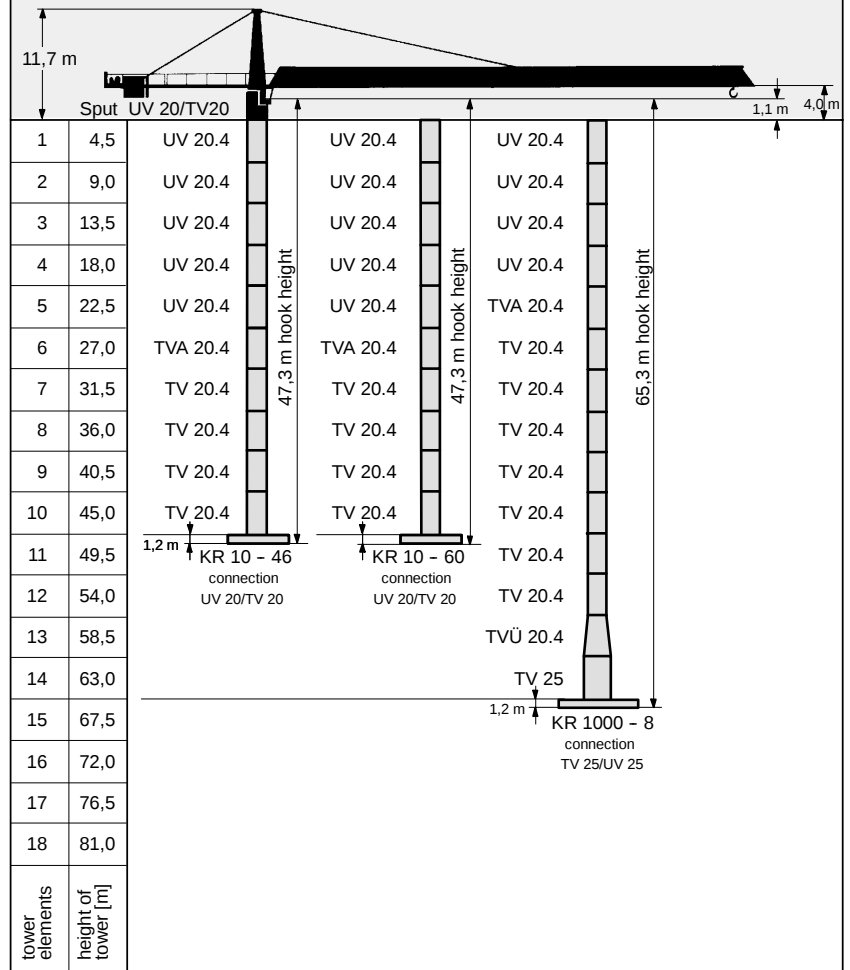


For data regarding foundation anchors see section 12.
The tower configurations are recommended for economic crane installation and may be used in any case.
Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation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

2.2.8.1 Tower configurations

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

Slewing part:

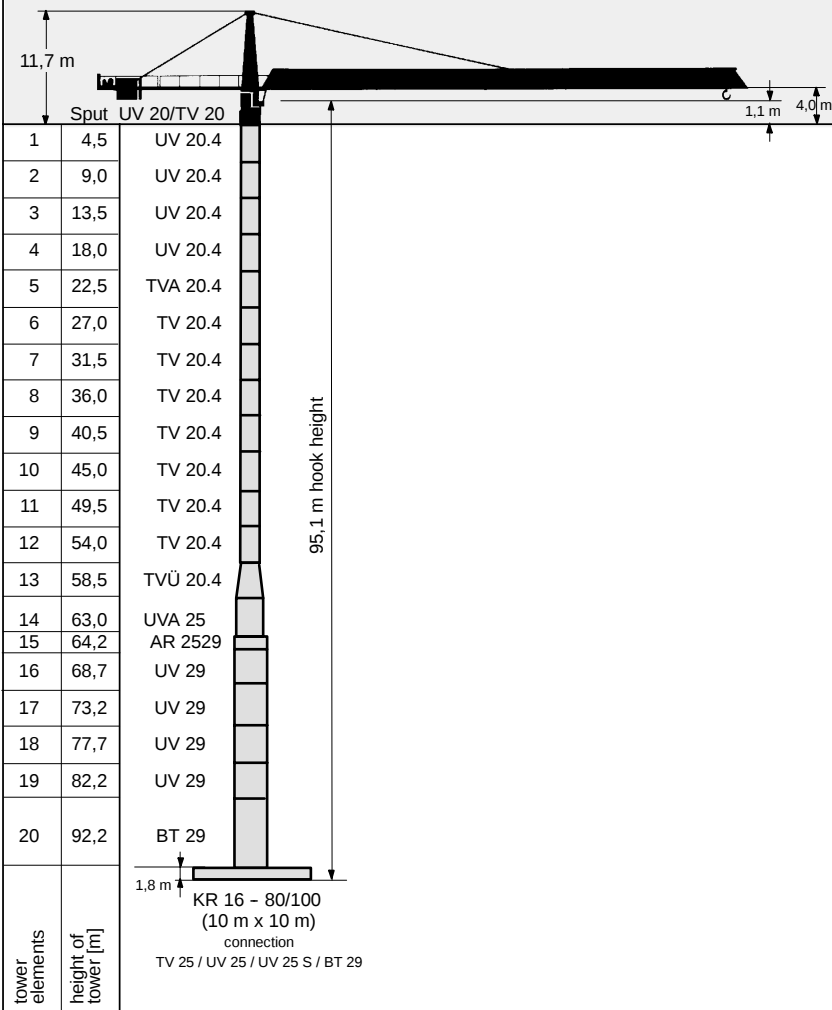


For data regarding cross frames see section 12.
The tower configurations are recommended for economic crane installation and may be used in any case.
Tower configurations with other tower elements are possible, but must be checked and confirmed by us in every individual case and before crane installation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

2.2.8.2 Tower configurations

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

Slewing part:



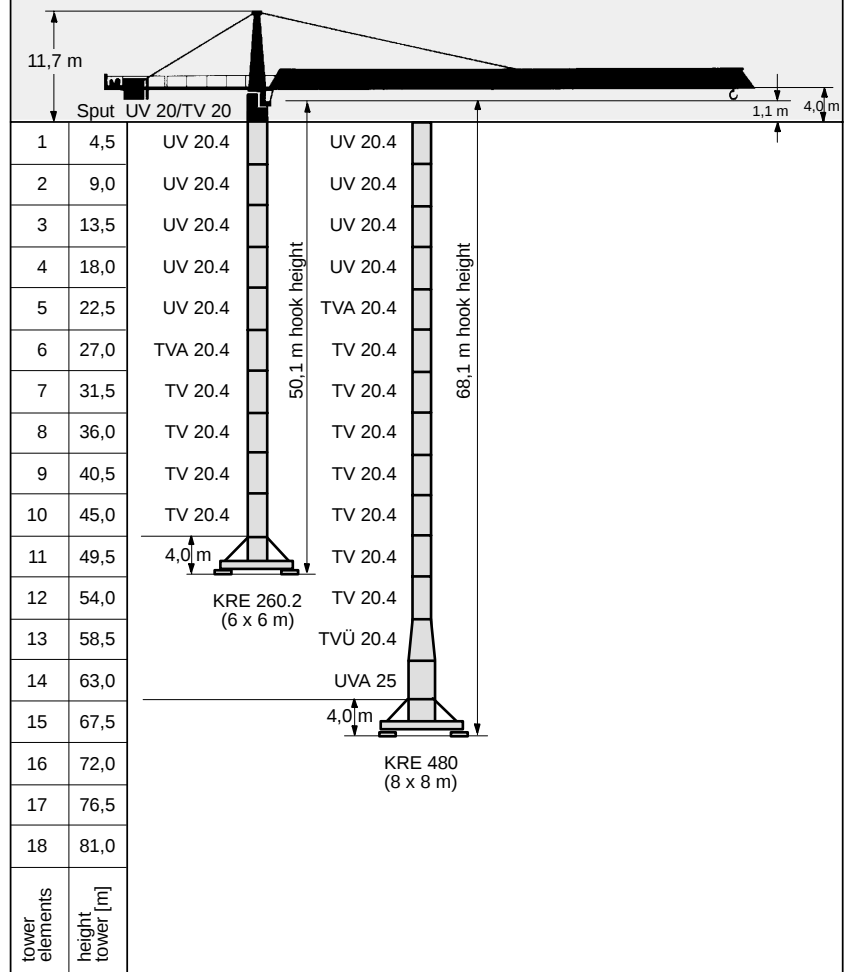
For data regarding cross frames see section 12.

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.

2.2.9.1 Tower configurations

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

Slewing part:



For data regarding cross frames elements see section 12.

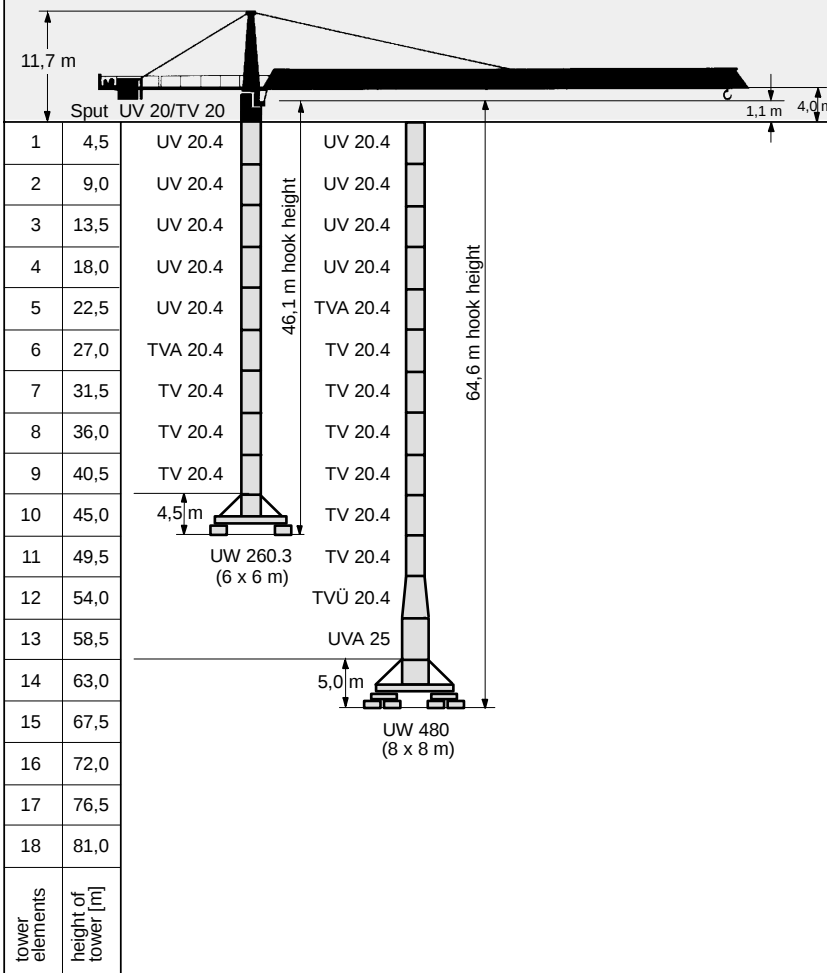
The tower configurations are recommended for economic crane installation and may be used in any case.

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.

2.2.10.1 Tower configuration

for a travelling tower crane without climbing drive.

Slewing part:



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.

2.3.1

Colli list

Item	pcs.	Designation	Colli	L (m)	B (m)	H (m)	weight (kg)	volume (m³)
1	1	tower top complete with platforms and diverse bracing parts		11,72	2,42	2,42	10560	68,64
	item 1 disassembled	tower top upper part with platforms and diverse bracing parts		7,45	1,37	2,42	2730	24,70
		tower top lower part with slewing frame, DV; slewing drives and slip ring system		5,39	2,42	2,42	7830	31,57
2	1	driver's cabin with driver's cabin suspension		2,80	2,15	2,45	1100	14,75
		driver's cabin suspension		1,03	2,01	0,58	230	1,20
3	1	counterjib folded (with bracing parts)		12,40	2,49	1,05	5500 (555)	32,29
		counterjib (with bracing parts)		20,35	2,49	0,65	5500 (555)	32,80
4	1	machinery platform Hw645FU with hoisting rope (Ø16mmx285m)		2,48	2,46	2,18	4200	13,30
		machinery platform Hw645FU/Hw875FU with hoisting rope (Ø16mmx285m)		2,48	2,46	2,18	4570	13,30

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

2.3.2

Kolliliste

Pos.	Stck.	Beschreibung	Kolli	L (m)	B (m)	H (m)	Gewicht (kg)	Volumen (m³)
5	1	Auslegerteil 1 mit Katzfahrwerk		10,18	1,64	2,30	3000	38,40
6	1	Auslegerteil 2		10,21	1,64	2,05	2150	34,32
7	1	Auslegerteil 3		10,21	1,64	2,03	2000	33,99
8	1	Auslegerteil 4 (Abspannteile)		10,27	1,64	2,05	1900 (2620)	34,53
9	1	Auslegerteil 5		5,26	1,64	2,02	990	17,43
10	1	Auslegerteil 6		10,24	1,64	2,01	1700	33,76
11	1	Auslegerteil 7		10,22	1,64	2,00	1260	33,52
12	1	Auslegerteil 8		10,20	1,64	2,00	1010	33,46
13	1	Seilwirbeltraverse		1,05	1,54	0,47	135	0,76
14	1	Laufkatze LK 6/12 LK 8/16		1,87 1,87	1,85 1,85	0,99 1,00	400 460	3,43 3,46
15	1	Unterflasche U 8/16 (Losteil)		1,02	0,26	1,70	640	0,45
16	1	Normgeländer (Losteil)		2,55	1,1	1,8	460	5,05
17	1	Kiste (Kleinteil)		1,6	0,9	0,8	370	1,15
Losteile und Kleinteile können nach vorhandenen Platzverhältnissen verteilt werden.								

2.5.1

Assembly weights - slewing part

Tower top complete	11 790 kg
bracing brackets (1 x 600 mm, 2 x 6315 mm), driver's cabin, driver's cabin suspension, platform and standard handrails	
- tower top upper part complete	2 730 kg
- driver's cabin with driver's cabin suspension	1 230 kg
- Tower top lower part with slewing frame, KDV, slewing drives, standard handrails and slipping system	7 830 kg
Counterjib	
with Hw 645 FU complete	11 980 kg
- counterjib with 4 bracing brackets and standard handrails	5 780 kg
- machinery platform with hoisting rope (Ø 16 mm x 280 m)	4 200 kg
- counterweight stone 2 t (under the machinery platform)	2 000 kg
Counterjib	
with Hw 675 FU complete	12 350 kg
- counterjib with 4 bracing brackets and standard handrails	5 780 kg
- machinery platform with hoisting rope (Ø 16 mm x 280 m)	4 570 kg
- counterweight stone 2 t (under the machinery platform)	2 000 kg
Counterjib	
with Hw 875 FU complete	12 450 kg
- counterjib with 4 bracing brackets and standard handrails	5 780 kg
- machinery platform with hoisting rope (Ø 16 mm x 280 m)	4 670 kg
- counterweight stone 2 t (under the machinery platform)	2 000 kg
75 m Trolley jib complete	17 700 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
70 m Trolley jib complete	16 800 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
65 m Trolley jib complete	16 700 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
60 m Trolley jib complete	15 800 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
55 m Trolley jib complete	14 200 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
50 m Trolley jib complete	13 200 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
45 m Trolley jib complete	12 900 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
40 m Trolley jib complete	12 000 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
35 m Trolley jib complete	11 300 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	
30 m Trolley jib complete	10 300 kg
- bracing brackets, trolley, traversing ropes, hook block and standard handrails	

2.5.2

Assembly weights - cross frame / cross frame element / undercarriage

Cross frame KR 10 - 46 (without optional features)		7 000 kg
- 4 spigots UV 20		560 kg
- 4 spigots TV 20		684 kg
Cross frame KR 10 - 60 (without optional features)		8 200 kg
- 4 spigots UV 20		560 kg
- 4 spigots TV 20		684 kg
Cross frame KR 1000 - 8 (without optional features)		14 630 kg
- 4 spigots TV 25		684 kg
- 4 spigots UV 25		748 kg
Cross frame element KRE 260.2 complete		10 900 kg
- base mast part with diagonal struts and track rod	5 445 kg	
- cross frame platform with swivel arms, corner bearings and transport safety devices	5 455 kg	
Cross frame element KRE 480 complete		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 260.3 complete		17 100 kg
- base mast part with diagonal struts and track rod	5 880 kg	
- undercarriage platform with swivel arms, subframes and transport safety devices	11 220 kg	
Undercarriage UW 480 complete		34 000 kg
- base mast part	7 100 kg	
- swivel arms with traverse and subframes	(2x) 8 000 kg	
- diagonal struts and ballast suspension means	(2x) 4 630 kg	
- assembly platform, ladder and small parts	1 640 kg	

962-4-025057E

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

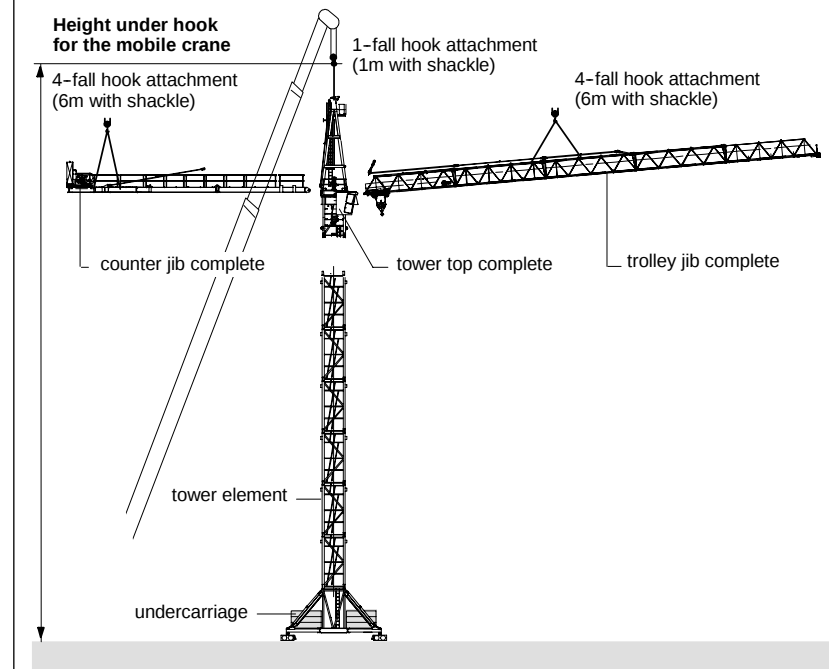
=

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.

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



962-4-025058E

2.6.1.1 Trolley jib - suspension plan jib 75 m to 60 m

**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.

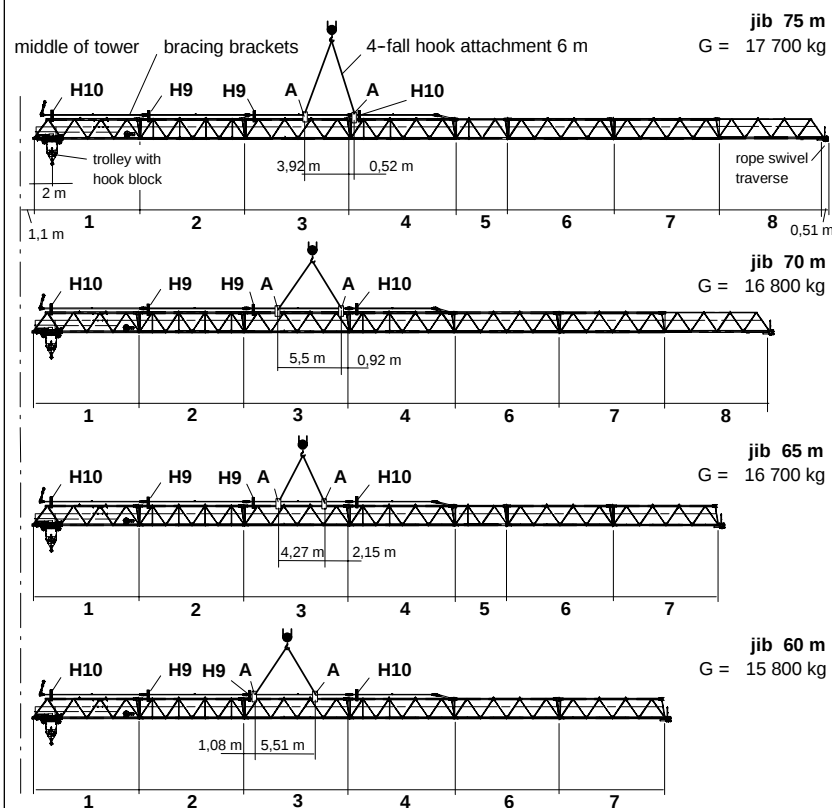
The parts of the jib are labeled with a building part identification at the top chord.

Lengths:	jib part	1/2/3/4/6/7/8	= 10,0 m
	jib part	5	= 5,0 m
	rope swivel traverse		= 0,51 m

More details about suspension **A** and support **H9 and H10** see section 2.6.2

**Attention!**

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.



2.6.1.2 Trolley jib - suspension plan 55 m to 30 m

**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.

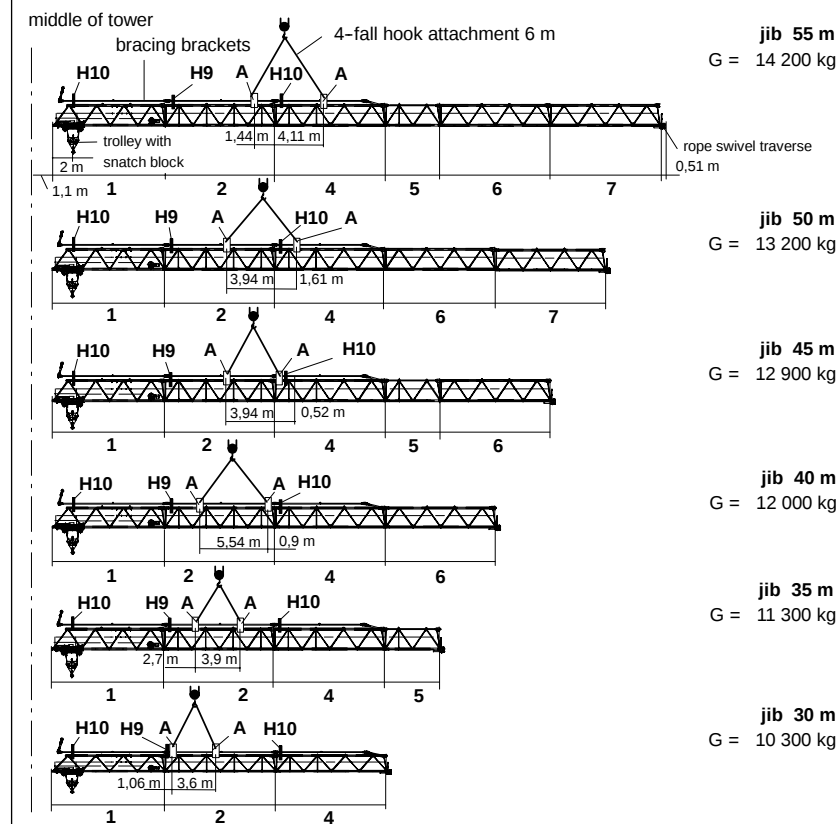
The parts of the jib are labeled with a building part identification at the top chord.

Lengths:	jib part	1/2/3/4/6/7/8	= 10,0 m
	jib part	5	= 5,0 m
	rope swivel traverse		= 0,51 m

More details about suspension **A** and support **H9 and H10** see section 2.6.2

**Attention!**

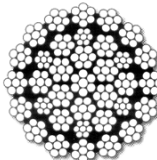
For assembly hang on snatch block with 2 sling ropes DIN 3088 (Ø 8 mm x 1 m with shackle) to the trolley, reeve in assembly rope (perlon rope Ø 14 mm x 12 m) and secure at the trolley.



2.7.1

Hoisting rope

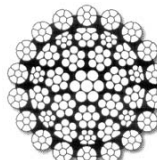
for hoisting winch - Hw 645 FU / Hw 675 FU

Rope 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 rope core 		
Design	nominal strength = 1770 N/mm² calc. breaking strength = 234,1 kN min. breaking strength = 178,1 kN weight per meter = 1,191 kg langs lay rope, right handed, made from cable wire. middle space factor = 0,654 middle spinning loss factor = 0,76 middle 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 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"> rope length 285 m </td><td data-bbox="524 1027 976 1107"> for crane with: cable radius 75 m hook path 42 m </td></tr> </table> By lengthening the hook path by 1 tower element (4,5 m) the necessary rope length increases by 9 m for operation in 2 falls and 18,0 m for operation in 4 falls.		rope length 285 m	for crane with: cable radius 75 m hook path 42 m
rope length 285 m	for crane with: cable radius 75 m hook path 42 m		
! Attention! A wire rope is a complex machine element. Conventional rope design frequently doesn't meet the requirements of modern rope drives. Short service life is the result.			

2.7.1.2

Hoisting rope

for hoisting winch - Hw 875 FU

Rope Ø = 16 mm + 4% + 2%	design according to DIN 15 020 kind of operation TWG 1 Am		
First equipment	CASAR EUROLIFT - non twisting flexible hoisting rope with compressed outer strands and compressed rope core 		
Design	nominal strength = 1770 N/mm² calc. breaking strength = 257,7 kN min. breaking strength = 209,4 kN weight per meter = 1,267 kg langs-lay rope, right handed, made from blank cable wire. middle space factor = 0,720 middle spinning loss factor = 0,82 middle weight factor = 0,87 total twist number = 280 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 = 126		
Basic equipment <table border="1" data-bbox="1285 1043 1989 1123"> <tr> <td data-bbox="1285 1043 1536 1123"> rope length 285 m </td><td data-bbox="1536 1043 1989 1123"> for crane with: cable radius 75 m hook path 42 m </td></tr> </table> By lengthening the hook path by 1 tower element (4,5 m) the necessary rope length increases by 9 m for operation in 2 falls and 18,0 m for operation in 4 falls.		rope length 285 m	for crane with: cable radius 75 m hook path 42 m
rope length 285 m	for crane with: cable radius 75 m hook path 42 m		
! Attention! A wire rope is a complex machine element. Conventional rope design frequently doesn't meet the requirements of modern rope drives, Short service life is the result.			

2.7.2

Traversing rope

rope Ø = 8 mm

First equipment

Design

+ 4%
+ 2%

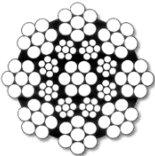
CASAR UNILIFT - cable with 8 strands in non-overlapped double parallel construction made out of uncompressed strands.

nominal strength = 1770 N/mm²
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
middle spinning loss factor = 0,90
middle 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

rope lengths	1 x 87 m	for crane with:	radius	75 m
	1 x 147 m			

Attention!
A wire rope is a complex machine element.

Conventional rope 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

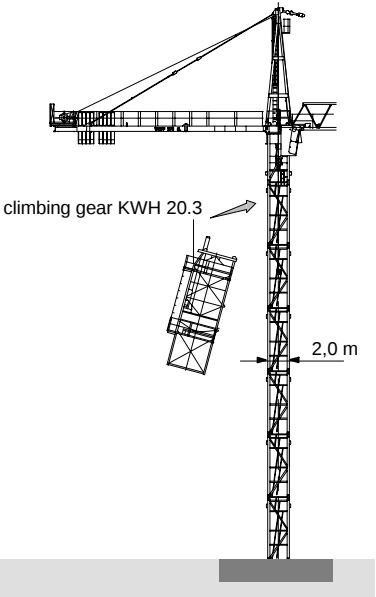


Attention!
The erection of the climbing gear with the tower crane WOLFF 7532 is possible with operation in 2 falls.

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

Min. height with stationary erection:
3 tower elements = 13,5 m tower height

Min. height with travelling erection:
2 tower elements + undercarriage ca. 13,5 m tower height



2.8.1.1

Table of balancing weights

7532 FL balancing weight	jib									
	30 m	35 m	40 m	45 m	50 m	55 m	60 m	65 m	70 m	75 m
UV 20 = 1,95 t *	--	--	--	38,5 m **	43,8 m	41,0 m	31,0 m	25,8 m	23,0 m	15,8 m
TV 20 = 3,05 t	--	--	35,8 m	28,0 m	31,9 m	29,8 m	22,2 m	18,3 m	16,2 m	10,8 m
load = 5,00 t	20,7 m	21,2 m	21,8 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.
- balancing not possible

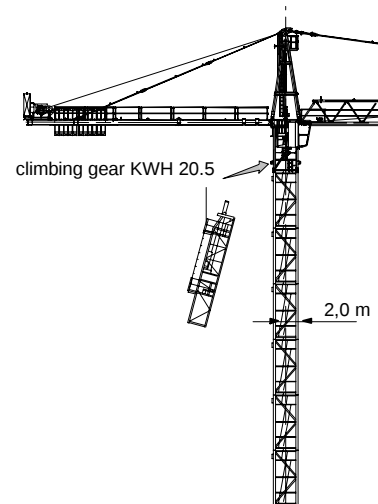


Danger!
The climbing gear is an auxilliary device for erection and mustn't stay at the tower crane WOLFF under normal working conditions.

WOLFF 7532**Crane data****2 / 92****2.8.3 Insertable exterior climbing gear KWH 20.5****Attention!**

The erection of the climbing gear with the tower crane WOLFF 7532 is possible with operation in 4 falls.

Details about climbing gear KWH 20.5 see additional equipment, section 12.



Min. height with stationary erection
2 tower elements = 9,0 m tower height

Min. height with travelling erection:
2 tower elements + undercarriage ca. 13,5 m tower height

2.8.3.1 Table of balancing weights

7532 FL balancing weight	jib										
	30 m	35 m	40 m	45 m	50 m	55 m	60 m	65 m	70 m	75 m	
UV 20 = 1,95 t *	--	--	--	**	37,8 m	43,0 m	40,1 m	--	--	--	--
TV 20 = 3,05 t	--	--	35,2 m	27,4 m	31,3 m	29,1 m	--	--	--	--	--
load = 5,00 t	20,3 m	20,7 m	21,3 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.

-- balancing not possible

**Danger!**

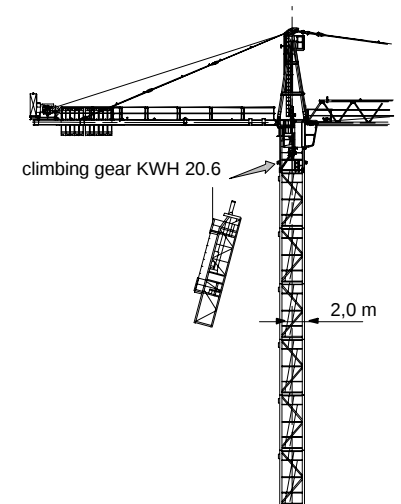
The climbing gear is an auxiliary device for erection and mustn't stay at the tower crane WOLFF under normal working conditions.

962-4-025080E

WOLFF 7532**Crane data****2 / 93****2.8.4 Insertable exterior climbing gear KWH 20.6****Attention!**

The erection of the climbing gear with the tower crane WOLFF 7532 is possible with operation in 4 falls.

Details about climbing gear KWH 20.6 see additional equipment, section 12.



Min. height with stationary erection
2 tower elements = 9,0 m tower height

Min. height with travelling erection:
2 tower elements + undercarriage ca. 13,5 m tower height

2.8.4.1 Table of balancing weights

7532 FL balancing weight	jib										
	30 m	35 m	40 m	45 m	50 m	55 m	60 m	65 m	70 m	75 m	
UV 20 = 1,95 t *	--	--	--	**	37,8 m	43,0 m	40,1 m	30,1 m	25,0 m	22,2 m	15,0 m
TV 20 = 3,05 t	--	--	35,2 m	27,4 m	31,3 m	29,1 m	21,6 m	17,7 m	15,6 m	10,1 m	--
load = 5,00 t	20,3 m	20,7 m	21,3 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.

-- balancing not possible

**Danger!**

The climbing gear is an auxiliary device for erection and mustn't stay at the tower crane WOLFF under normal working conditions.

962-4-025186E

2.8.5 Insertable internal climbing gear KSH 20 H

For use of the WOLFF 7532 in connection with internal climbing gear KSH 20 H, the tower combination has to be observed as shown here.

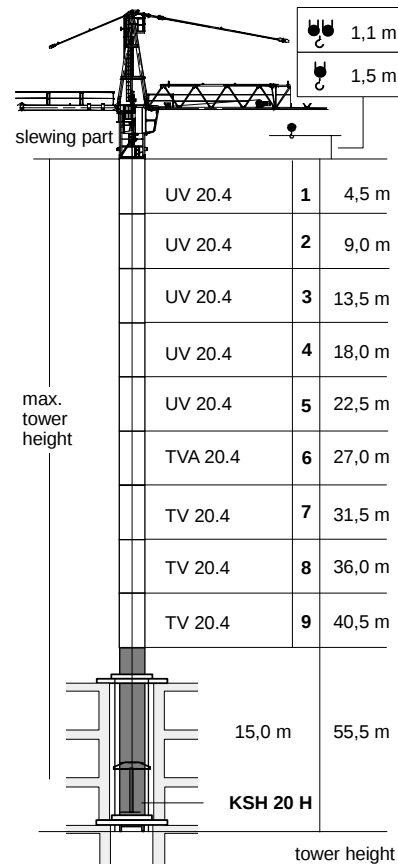
Details about climbing drive KSH 20 H see additional equipment, section 12.

2.8.5.1 Table of balancing weights

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

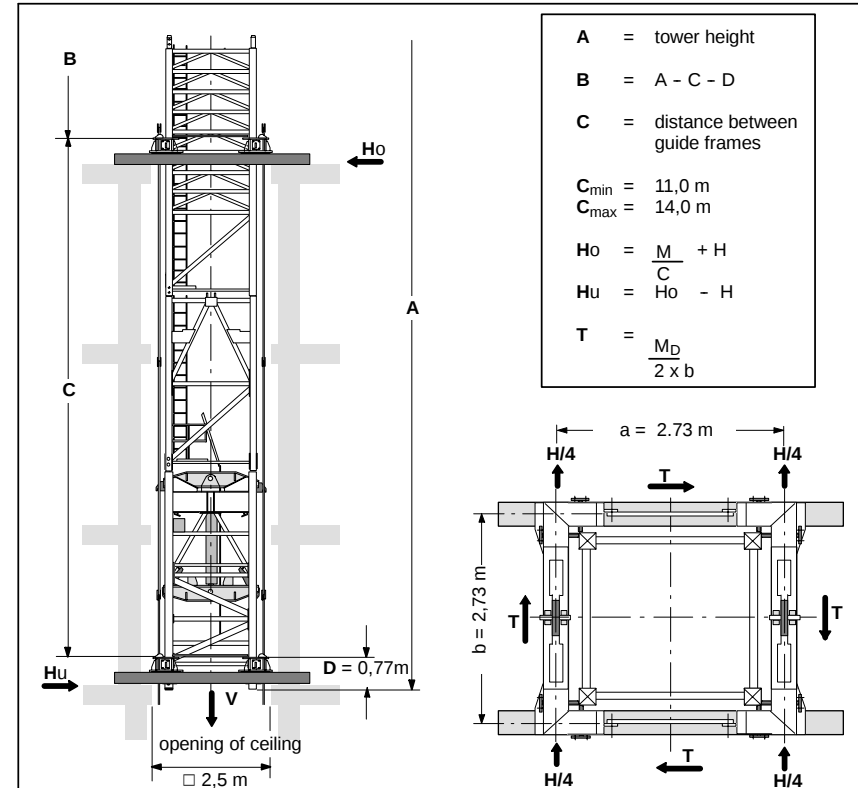
** The indicated radius refers to the centre of the tower and shall be treated as standard value. Exact balancing must be achieved by travelling of trolley with tower element or load and can be checked by measuring the distance between corner posts and tensioning brackets. This distance shall be equal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

-- balancing not possible



7532 FL	jib										
balancing weight *	30 m	35 m	40 m	45 m	50 m	55 m	60 m	65 m	70 m	75 m	
UV 20 = 1,95 t	--	--	--	--	--	--	--	** 55,6m	52,8m	47,0m	
TV 20 = 3,05 t	--	--	--	--	--	51,3m	45,0m	42,1m	40,0m	35,6m	
load = 5,00 t	--	--	36,3m	31,3m	34,5m	33,8m	29,6m	--	--	--	
load = 8,00 t	23,0m	23,8m									

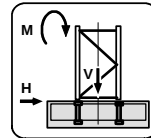
2.8.2.2 Reacting forces to building for hydraulic interior climbing drive KSH 25



Reacting forces to building (kN) in operation																
A(m)	55,5				51,0				46,5				42,0			
C(m)	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14
V	1287				1258				1230				1201			
H _o	450	415	380	355	430	390	360	335	410	375	345	320	385	355	330	305
H _u	405	365	335	310	380	350	315	290	365	330	305	280	345	315	285	265
T	72				72				72				72			
Reacting forces to building (kN) out of operation																
A(m)	55,5				51,0				46,5				42,0			
C(m)	11	12	13	14	11	12	13	14	11	12	13	14	11	12	13	14
V	1104				1076				1047				1019			
H _o	600	550	510	475	525	480	445	415	460	420	385	360	390	360	330	310
H _u	420	370	330	290	355	310	275	240	300	260	225	200	240	205	180	155
T	0				0				0				0			

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
Permanent acting moment = **1740** kNm
M = moment **H** = horizontal force **V** = vertical load



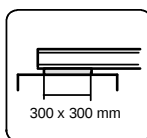
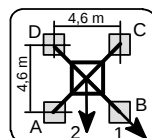
Foundation loads

Jib length 30 - 75 m

height under hook		Crane in service torque moment 390 kNm			Crane out of service			Assembly		
 [m]	 [m]	M [kNm]	H [kN]	V [kN]	M [kNm]	H [kN]	V [kN]	M [kNm]	H [kN]	V [kN]
10,1	10,5	3000	26	651	80	45	732	3190	15	462
14,6	15,0	3140	27	669	320	49	751	3280	17	481
19,1	19,5	3290	29	687	910	68	769	3380	18	509
23,6	24,0	3470	30	706	1300	75	787	3490	20	517
28,1	28,5	3660	32	724	1730	82	806	3620	21	535
32,6	33,0	3880	33	742	2200	88	823	3760	23	554
37,1	37,5	4050	36	791	2700	98	872	3880	25	602
41,6	42,0	4280	38	814	3270	106	900	4040	27	630
46,1	46,5	4530	40	847	3900	115	928	4220	29	658
50,6	51,0	4810	42	875	4600	123	957	4420	31	687
55,1	55,5	5190	45	1130	5370	132	985	4640	33	715
59,6	60,0	5590	47	1159	6220	140	1013	4840	35	743
64,1	64,5	5900	50	1209	7120	152	1063	5110	38	793
68,6	69,0	6300	53	1241	8060	161	1045	5360	40	825
73,1	73,5	6670	55	1281	9020	171	1135	5600	43	865
Attention ! Tower configuration with basis tower BT 29										
75,3	75,7	6700	56	1335	9660	176	1190	5670	44	919
79,8	80,2	7100	59	1381	10400	187	1236	5930	47	966
84,3	84,7	7520	62	1427	11570	200	1282	6230	50	1012
88,8	89,2	7990	64	1474	12820	210	1328	6540	52	1058
93,3	93,7	8500	67	1520	14170	221	1374	6880	55	1105

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



KR 10 - 46

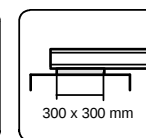
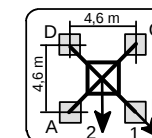
Corner distance 4,6 m x 4,6 m

Jib length 30 m

[illegible]

3.2.1.2 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 46

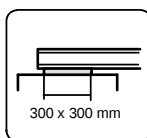
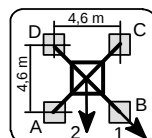
Corner distance 4,6 m x 4,6 m

Jib length 35 m

[illegible]

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



KR 10 - 46

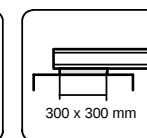
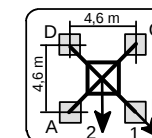
Corner distance 4,6 m x 4,6 m

Jib length 40 m

[illegible]

3.2.1.4 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 46

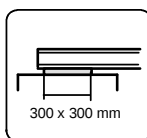
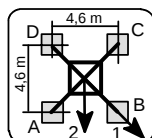
Corner distance 4,6 m x 4,6 m

Jib length 45 m

[illegible]

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



KR 10 - 46

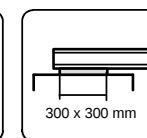
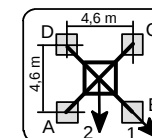
Corner distance 4,6 m x 4,6 m

Jib length 50 m

[illegible]

3.2.1.6 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 46

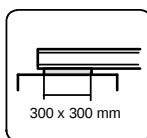
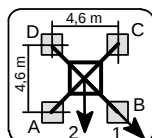
Corner distance 4,6 m x 4,6 m

Jib length 55 m

[illegible]

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



KR 10 - 46

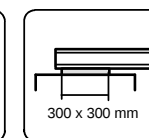
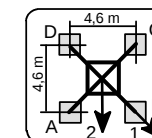
Corner distance 4,6 m x 4,6 m

Jib length 60 m

[illegible]

3.2.1.8 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 46

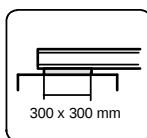
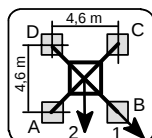
Corner distance 4,6 m x 4,6 m

Jib length 65 m

[illegible]

3.2.1.9 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 46

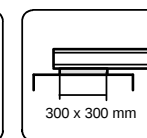
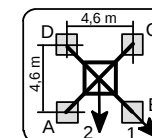
Corner distance 4,6 m x 4,6 m

Jib length 70 m

[illegible]

3.2.1.10 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 46

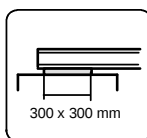
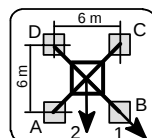
Corner distance 4,6 m x 4,6 m

Jib length 75 m

[illegible]

3.2.2.1 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

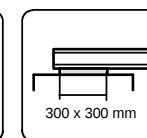
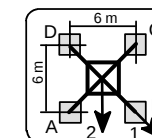
Corner distance 6 m x 6 m

Jib length 30 m

[illegible]

3.2.2.2 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

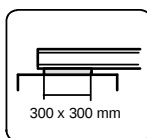
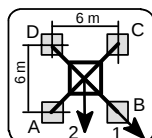
Corner distance 6 m x 6 m

Jib length 35 m

[illegible]

3.2.2.3 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

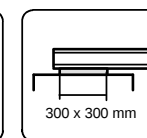
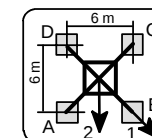
Corner distance 6 m x 6 m

Jib length 40 m

[illegible]

3.2.2.4 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

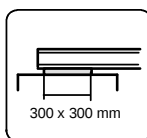
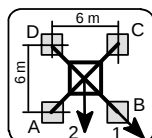
Corner distance 6 m x 6 m

Jib length 45 m

[illegible]

3.2.2.5 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

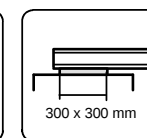
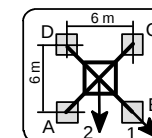
Corner distance 6 m x 6 m

Jib length 50 m

[illegible]

3.2.2.6 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

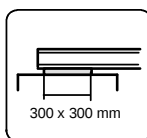
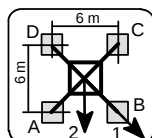
Corner distance 6 m x 6 m

Jib length 55 m

[illegible]

3.2.2.7 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

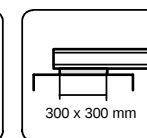
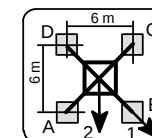
Corner distance 6 m x 6 m

Jib length 60 m

[illegible]

3.2.2.8 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

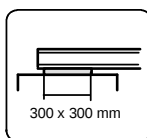
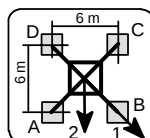
Corner distance 6 m x 6 m

Jib length 65 m

[illegible]

3.2.2.9 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

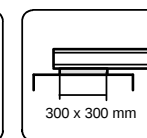
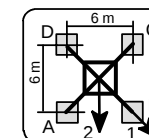
Corner distance 6 m x 6 m

Jib length 70 m

[illegible]

3.2.2.10 Center ballasts and corner loads acc. to DIN 15019

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



KR 10 - 60

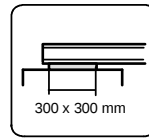
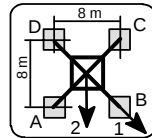
Corner distance 6 m x 6 m

Jib length 75 m

[illegible]

3.2.3.1 Center ballasts and corner loads to DIN 15019

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

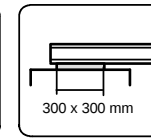
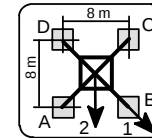


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 30 m

height under hook 		center ballast [t]	jib position	crane in service torque moment: 390 kNm				horizontal force [kN]	jib position	crane out of service torque moment: 0 kNm				horizontal force [kN]
[m]	[m]			corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
11,3	11,7	40	1	293	523	293	63	32	1	195	359	195	32	51
			2	456	456	130	130		2	327	327	177	177	
15,8	16,2	40	1	298	540	298	55	33	1	200	369	200	31	56
			2	469	469	126	126		2	320	320	80	80	
20,3	20,7	40	1	302	558	302	46	35	1	205	381	205	28	73
			2	483	483	121	121		2	329	329	80	80	
24,8	25,2	40	1	307	577	307	36	36	1	209	393	209	25	80
			2	498	498	115	115		2	339	339	79	79	
29,3	29,7	40	1	311	598	311	24	38	1	214	406	214	21	86
			2	514	514	108	108		2	350	350	78	78	
33,8	34,2	40	1	316	621	316	10	39	1	218	420	218	16	93
			2	532	532	100	100		2	361	361	75	75	
38,3	38,7	40	1	328	649	328	7	42	1	230	442	230	19	103
			2	555	555	101	101		2	380	380	81	81	
42,8	43,2	40	1	329	681	329	0	44	1	237	461	237	14	111
			2	576	576	94	94		2	396	396	191	191	
47,3	47,7	50	1	367	730	367	4	46	1	326	520	326	131	119
			2	623	623	110	110		2	463	463	188	188	
51,8	52,3	60	1	399	786	399	12	48	1	358	607	358	109	128
			2	672	672	126	126		2	534	534	182	182	
56,3	56,7	75	1	444	857	444	31	50	1	402	710	402	95	136
			2	736	736	152	152		2	620	620	185	185	
60,8	61,2	85	1	476	917	476	34	52	1	434	806	434	63	145
			2	788	788	163	163		2	697	697	172	172	
65,3	65,7	100	1	526	993	526	59	55	1	484	930	484	39	156
			2	856	856	195	195		2	799	799	170	170	

3.2.3.2 Center ballasts and corner loads to DIN 15019

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

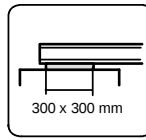
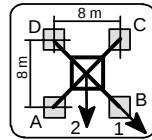


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 35 m

height under hook 		center ballast 	jib position	crane in service torque moment: 390 kNm				horizontal force	jib position	crane out of service torque moment: 0 kNm				horizontal force
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
[m]	[m]	[t]												
11,3	11,7	35	1	290	507	290	72	32	1	248	354	248	143	52
			2	443	443	136	136		2	323	323	174	174	
15,8	16,2	35	1	294	524	294	65	33	1	188	357	188	18	57
			2	457	457	132	132		2	315	315	191	191	
20,3	20,7	35	1	299	542	299	56	35	1	192	369	192	16	74
			2	471	471	127	127		2	317	317	67	67	
24,8	25,2	35	1	303	561	303	45	36	1	197	381	197	12	81
			2	486	486	121	121		2	327	327	66	66	
29,3	29,7	35	1	308	583	308	33	38	1	201	394	201	8	87
			2	502	502	114	114		2	338	338	65	65	
33,8	34,2	35	1	312	606	312	19	39	1	206	408	206	3	94
			2	520	520	105	105		2	349	349	62	62	
38,3	38,7	35	1	325	633	325	16	42	1	218	431	218	5	104
			2	543	543	106	106		2	368	368	67	67	
42,8	43,2	40	1	344	673	344	15	44	1	237	462	237	13	112
			2	577	577	112	112		2	408	408	198	198	
47,3	47,7	50	1	376	727	376	25	46	1	335	534	335	136	120
			2	624	624	128	128		2	476	476	194	194	
51,8	52,2	60	1	408	783	408	33	48	1	367	621	367	113	129
			2	673	673	143	143		2	546	546	188	188	
56,3	56,7	70	1	440	842	440	39	50	1	399	713	399	86	137
			2	724	724	157	157		2	621	621	177	177	
60,8	61,2	85	1	485	915	485	54	52	1	444	822	444	65	146
			2	789	789	180	180		2	711	711	176	176	
65,3	65,7	100	1	535	991	535	79	55	1	494	946	494	41	157
			2	857	857	212	212		2	814	814	173	173	

3.2.3.3 Center ballasts and corner loads to DIN 15019

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

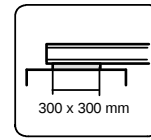
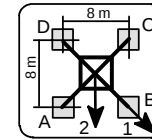


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 40 m

height under hook  [m]		center ballast  [t]	jib position	crane in service torque moment: 390 kNm				horizontal force [kN]	jib position	crane out of service torque moment: 0 kNm				horizontal force [kN]
corner loads		corner loads												
A [kN]	B [kN]	C [kN]	D [kN]	A [kN]	B [kN]	C [kN]	D [kN]							
11,3	11,7	30	1	286	487	286	85	32	1	244	351	244	138	52
			2	428	428	143	143		2	320	320	169	169	
15,8	16,2	30	1	290	503	290	77	33	1	175	345	175	5	57
			2	441	441	139	139		2	311	311	187	187	
20,3	20,7	30	1	295	522	295	68	35	1	180	356	180	3	75
			2	455	455	134	134		2	305	305	55	55	
24,8	25,2	30	1	299	541	299	58	36	1	184	369	184	0	81
			2	470	470	128	128		2	315	315	53	53	
29,3	29,7	30	1	304	562	304	46	38	1	184	386	184	0	88
			2	487	487	121	121		2	325	325	52	52	
33,8	34,2	30	1	308	585	308	32	39	1	184	406	184	0	94
			2	504	504	113	113		2	337	337	50	50	
38,3	38,7	30	1	321	613	321	28	42	1	198	426	198	0	104
			2	527	527	114	114		2	356	356	55	55	
42,8	43,2	35	1	340	652	340	28	44	1	225	450	225	0	112
			2	561	561	119	119		2	405	405	193	193	
47,3	47,7	45	1	372	706	372	38	46	1	331	532	331	130	121
			2	609	609	136	136		2	473	473	189	189	
51,8	52,2	60	1	417	775	417	58	48	1	376	632	376	119	129
			2	670	670	163	163		2	557	557	194	194	
56,3	56,7	70	1	449	834	449	64	50	1	408	724	408	91	138
			2	721	721	177	177		2	631	631	184	184	
60,8	61,2	85	1	493	908	493	79	52	1	452	834	452	70	146
			2	786	786	201	201		2	722	722	182	182	
65,3	65,7	95	1	531	971	531	91	55	1	490	947	490	32	158
			2	842	842	220	220		2	813	813	166	166	

3.2.3.3 Center ballasts and corner loads to DIN 15019

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

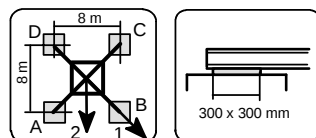


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 45 m

height under hook  [m]		center ballast  [t]	jib position	crane in service torque moment: 390 kNm				horizontal force [kN]	jib position	crane out of service torque moment: 0 kNm				horizontal force [kN]
corner loads				corner loads										
A [kN]	B [kN]	C [kN]	D [kN]	A [kN]	B [kN]	C [kN]	D [kN]							
11,3	11,7	35	1	301	529	301	72	32	1	183	347	183	19	53
			2	462	462	139	139		2	310	310	209	209	
15,8	16,2	35	1	305	546	305	64	34	1	188	358	188	17	58
			2	476	476	135	135		2	308	308	67	67	
20,3	20,5	35	1	310	565	310	55	35	1	192	369	192	15	76
			2	490	490	129	129		2	317	317	67	67	
24,8	25,2	35	1	314	585	314	44	37	1	197	382	197	11	82
			2	506	506	123	123		2	328	328	66	66	
29,3	29,7	35	1	319	607	319	31	38	1	201	395	201	7	89
			2	522	522	115	115		2	338	338	64	64	
33,8	34,2	35	1	323	630	323	16	40	1	206	410	206	2	95
			2	540	540	106	106		2	353	353	211	211	
38,3	38,7	35	1	335	658	335	13	43	1	294	438	294	151	105
			2	564	564	107	107		2	396	396	193	193	
42,8	43,2	35	1	342	687	342	0	44	1	301	491	301	111	113
			2	585	585	100	100		2	436	436	167	167	
47,3	47,7	35	1	333	732	333	0	46	1	308	550	308	66	122
			2	609	609	91	91		2	480	480	137	137	
51,8	52,2	45	1	372	783	372	0	48	1	340	639	340	42	130
			2	659	659	105	105		2	551	551	129	129	
56,3	56,7	60	1	426	846	426	7	50	1	385	745	385	25	139
			2	723	723	130	130		2	640	640	130	130	
60,8	61,2	75	1	471	921	471	21	52	1	430	857	430	2	147
			2	789	789	153	153		2	732	732	128	128	
65,3	65,7	85	1	508	984	508	32	55	1	432	1005	432	0	159
			2	845	845	172	172		2	823	823	111	111	

3.2.3.5 Center ballasts and corner loads to DIN 15019

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



KR 1000 - 8

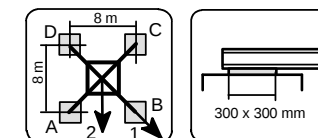
Corner distance 8 m x 8 m

Jib length 50 m

[illegible]

3.2.3.6 Center ballasts and corner loads to DIN 15019

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



KR 1000 - 8

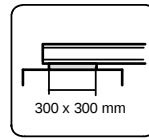
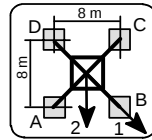
Corner distance 8 m x 8 m

Jib length 55 m

[illegible]

3.2.3.7 Center ballasts and corner loads to DIN 15019

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

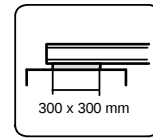
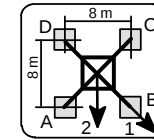


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 60 m

height under hook  [m]		center ballast  [t]	jib position	crane in service torque moment: 390 kNm				horizontal force [kN]	jib position	crane out of service torque moment: 0 kNm				horizontal force [kN]
corner loads		corner loads												
A [kN]	B [kN]	C [kN]	D [kN]	A [kN]	B [kN]	C [kN]	D [kN]							
11,3	11,7	25	1	303	517	303	89	33	1	121	417	121	0	55
			2	454	454	152	152		2	326	326	89	89	
15,8	16,2	25	1	307	534	307	81	34	1	124	431	124	0	59
			2	468	468	147	147		2	336	336	89	89	
20,3	20,7	25	1	312	553	312	71	36	1	125	446	125	0	78
			2	483	483	141	141		2	346	346	88	88	
24,8	25,2	25	1	317	574	317	59	37	1	126	463	126	0	84
			2	499	499	135	135		2	357	357	86	86	
29,3	29,7	30	1	334	609	334	58	39	1	150	482	150	0	91
			2	528	528	139	139		2	381	381	96	96	
33,8	34,2	30	1	338	633	338	43	40	1	149	502	149	0	98
			2	547	547	129	129		2	395	395	199	199	
38,3	38,7	30	1	350	661	350	39	43	1	163	523	163	0	108
			2	570	570	130	130		2	438	438	180	180	
42,8	43,2	30	1	357	690	357	24	45	1	165	548	165	0	116
			2	593	593	122	122		2	479	479	153	153	
47,3	47,7	30	1	364	721	364	8	47	1	323	608	323	38	124
			2	617	617	112	112		2	525	525	122	122	
51,8	52,2	35	1	384	767	384	1	49	1	342	688	342	0	133
			2	655	655	113	113		2	586	586	99	99	
56,3	56,7	45	1	416	829	416	4	51	1	341	818	341	0	141
			2	708	708	124	124		2	664	664	85	85	
60,8	61,2	65	1	473	918	473	28	53	1	384	960	384	0	150
			2	788	788	159	159		2	772	772	92	92	
65,3	65,7	85	1	536	1007	536	64	56	1	431	1117	431	0	161
			2	869	869	202	202		2	889	889	99	99	

3.2.3.8 Center ballasts and corner loads to DIN 15019

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

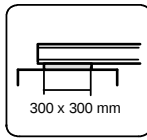
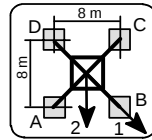


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 65 m

height under hook  [m]		center ballast  [t]	jib position	crane in service torque moment: 390 kNm				horizontal force [kN]	jib position	crane out of service torque moment: 0 kNm				horizontal force [kN]
corner loads				corner loads										
A [kN]	B [kN]	C [kN]	D [kN]	A [kN]	B [kN]	C [kN]	D [kN]							
11,3	11,7	25	1	312	531	312	93	33	1	201	439	201	0	55
			2	467	467	157	157		2	365	365	55	55	
15,8	16,2	25	1	317	549	317	84	34	1	203	453	203	0	60
			2	481	481	152	152		2	375	375	54	54	
20,3	20,7	25	1	321	568	321	74	36	1	204	470	204	0	79
			2	496	496	146	146		2	385	385	53	53	
24,8	25,2	25	1	326	589	326	62	37	1	204	488	204	0	85
			2	512	512	139	139		2	397	397	51	51	
29,3	29,7	30	1	343	625	343	61	39	1	227	510	227	0	92
			2	542	542	143	143		2	421	421	60	60	
33,8	34,2	30	1	347	650	347	45	40	1	224	533	224	0	98
			2	561	561	134	134		2	434	434	57	57	
38,3	38,7	30	1	360	678	360	41	43	1	238	555	238	0	109
			2	585	585	134	134		2	462	462	174	174	
42,8	43,2	30	1	367	707	367	26	45	1	238	582	238	0	116
			2	608	608	126	126		2	504	504	147	147	
47,3	47,7	30	1	374	739	374	8	47	1	332	640	332	24	125
			2	632	632	115	115		2	550	550	115	115	
51,8	52,2	30	1	370	784	370	0	49	1	311	736	311	0	134
			2	658	658	103	103		2	600	600	79	79	
56,3	56,7	45	1	425	848	425	3	51	1	334	869	334	0	142
			2	724	724	126	126		2	691	691	77	77	
60,8	61,2	70	1	495	951	495	39	53	1	400	1014	400	0	150
			2	817	817	172	172		2	812	812	95	95	
65,3	65,7	90	1	557	1041	557	74	56	1	446	1173	446	0	162
			2	899	899	215	215		2	931	931	101	101	

3.2.3.9 Center ballasts and corner loads to DIN 15019

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

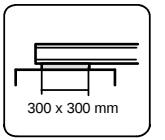
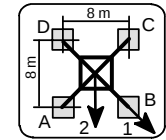


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 70 m

height under hook  [m]		center ballast [t]	jib position	crane in service torque moment: 390 kNm				horizontal force [kN]	jib position	crane out of service torque moment: 0 kNm				horizontal force [kN]
 [m]				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
11,3	11,7	25	1	312	522	312	102	33	1	193	454	193	0	56
			2	461	461	164	164		2	371	371	49	49	
15,8	16,2	25	1	317	540	317	94	34	1	195	469	195	0	61
			2	474	474	159	159		2	381	381	49	49	
20,3	20,7	25	1	321	559	321	84	36	1	196	486	196	0	80
			2	489	489	153	153		2	391	391	47	47	
24,8	25,2	25	1	326	580	326	72	37	1	195	505	195	0	86
			2	505	505	146	146		2	403	403	45	45	
29,3	29,7	30	1	343	615	343	71	39	1	219	527	219	0	93
			2	535	535	150	150		2	427	427	55	55	
33,8	34,2	30	1	347	640	347	55	40	1	216	551	216	0	99
			2	554	554	140	140		2	440	440	51	51	
38,3	38,7	30	1	360	668	360	51	43	1	229	572	229	0	109
			2	578	578	141	141		2	475	475	162	162	
42,8	43,2	30	1	367	697	367	36	45	1	230	600	230	0	117
			2	600	600	133	133		2	517	517	134	134	
47,3	47,7	30	1	374	729	374	19	47	1	332	660	332	5	126
			2	625	625	123	123		2	564	564	101	101	
51,8	52,2	30	1	380	764	380	0	49	1	291	776	291	0	134
			2	651	651	111	111		2	614	614	65	65	
56,3	56,7	50	1	438	850	438	26	51	1	338	910	338	0	143
			2	729	729	147	147		2	719	719	75	75	
60,8	61,2	75	1	507	952	507	62	53	1	404	1058	404	0	151
			2	822	822	193	193		2	840	840	92	92	
65,3	65,7	95	1	570	1042	570	97	56	1	449	1217	449	0	163
			2	904	904	236	236		2	959	959	98	98	

3.2.3.10 Center ballasts and corner loads to DIN 15019

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

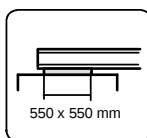
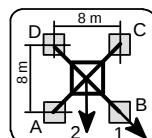


KR 1000 - 8 Corner distance 8 m x 8 m Jib length 75 m

height under hook  [m]		center ballast  [t]	jib position	crane in service torque moment: 390 kNm				horizontal force [kN]	jib position	crane out of service torque moment: 0 kNm				horizontal force [kN]
				corner loads						corner loads				
				A [kN]	B [kN]	C [kN]	D [kN]			A [kN]	B [kN]	C [kN]	D [kN]	
11,3	11,7	30	1	334	537	334	131	33	1	167	567	167	0	56
			2	478	478	190	190		2	426	426	25	25	
15,8	16,2	30	1	338	555	338	122	35	1	168	582	168	0	61
			2	491	491	185	185		2	436	436	24	24	
20,3	20,7	30	1	343	574	343	112	36	1	169	600	169	0	80
			2	506	506	179	179		2	447	447	22	22	
24,8	25,2	30	1	348	595	348	100	38	1	168	620	168	0	87
			2	523	523	172	172		2	458	458	19	19	
29,3	29,7	35	1	365	631	365	99	39	1	190	643	190	0	94
			2	553	553	176	176		2	483	483	28	28	
33,8	34,2	35	1	369	656	369	83	41	1	186	669	186	0	100
			2	572	572	166	166		2	497	497	24	24	
38,3	38,7	35	1	381	684	381	79	43	1	200	691	200	0	110
			2	595	595	167	167		2	517	517	28	28	
42,8	43,2	35	1	388	713	388	63	45	1	199	720	199	0	118
			2	618	618	159	159		2	559	559	135	135	
47,3	47,7	35	1	395	745	395	46	47	1	197	753	197	0	127
			2	643	643	148	148		2	607	607	101	101	
51,8	52,2	40	1	415	792	415	38	49	1	328	840	328	0	135
			2	681	681	148	148		2	671	671	77	77	
56,3	56,7	60	1	472	879	472	65	51	1	373	978	373	0	144
			2	760	760	184	184		2	777	777	85	85	
60,8	61,2	80	1	529	970	529	88	53	1	411	1129	411	0	152
			2	841	841	217	217		2	887	887	88	88	
65,3	65,7	105	1	604	1073	604	135	56	1	480	1291	480	0	164
			2	935	935	273	273		2	1019	1019	106	106	

3.2.4.1 Center ballasts and corner loads to DIN 15019

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



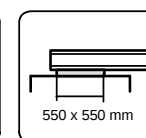
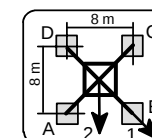
KR 16 - 80/100	Corner distance 8 m x 8 m	Jib length 30 m
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[illegible]

962-4-027673-1E

3.2.4.2 Center ballasts and corner loads to DIN 15019

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

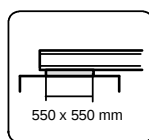
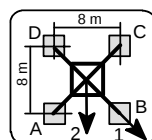


KR 16 - 80/100	Corner distance 8 m x 8 m	Jib length 35 m
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[illegible]

3.2.4.3 Center ballasts and corner loads to DIN 15019

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

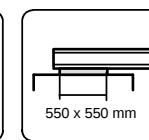
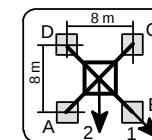


KR 16 - 80/100	Corner distance 8 m x 8 m	Jib length 40 m
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[illegible]

3.2.4.4 Center ballasts and corner loads to DIN 15019

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

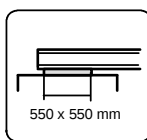
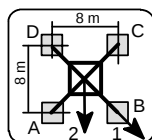


KR 16 - 80/100 **Corner distance 8 m x 8 m** **Jib length 45 m**

[illegible]

3.2.4.5 Center ballasts and corner loads to DIN 15019

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



KR 16 - 80/100

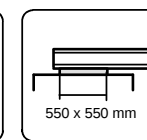
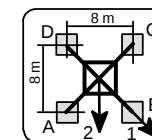
Corner distance 8 m x 8 m

Jib length 50 m

[illegible]

3.2.4.6 Center ballasts and corner loads to DIN 15019

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



KR 16 - 80/100

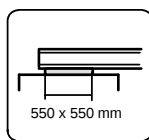
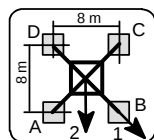
Corner distance 8 m x 8 m

Jib length 55 m

[illegible]

3.2.4.7 Center ballasts and corner loads to DIN 15019

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



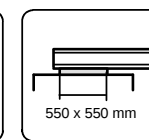
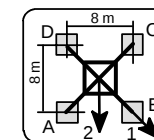
KR 16 - 80/100	Corner distance 8 m x 8 m
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Jib length 60 m

[illegible]

3.2.4.8 Center ballasts and corner loads to DIN 15019

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



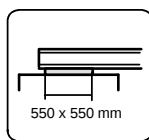
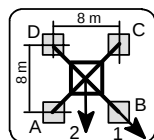
KR 16 - 80/100	Corner distance 8 m x 8 m
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Jib length 65 m

[illegible]

3.2.4.9 Center ballasts and corner loads to DIN 15019

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



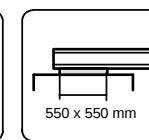
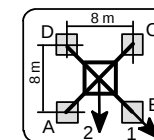
KR 16 - 80/100 Corner distance 8 m x 8 m

Jib length 70 m

[illegible]

3.2.4.10 Center ballasts and corner loads to DIN 15019

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



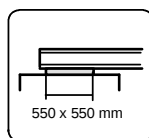
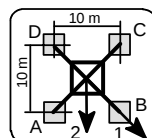
KR 16 - 80/100	Corner distance 8 m x 8 m
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Jib length 75 m

[illegible]

3.2.5.1 Center ballasts and corner loads to DIN 15019

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



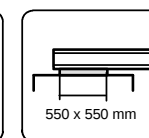
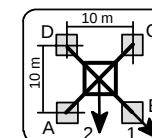
KR 16 - 80/100	Corner distance 10,0 m x 10,0 m
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Jib length 30 m

[illegible]

3.2.5.2 Center ballasts and corner loads to DIN 15019

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



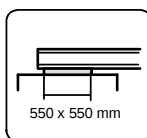
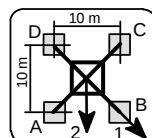
KR 16 - 80/100	Corner distance 10,0 m x 10,0 m
-----------------------	--

Jib length 35 m

[illegible]

3.2.5.3 Center ballasts and corner loads to DIN 15019

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



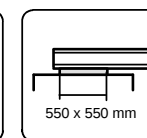
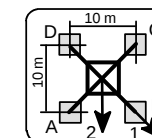
KR 16 - 80/100 Corner distance 10,0 m x 10,0 m

Jib length 40 m

[illegible]

3.2.5.4 Center ballasts and corner loads to DIN 15019

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



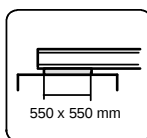
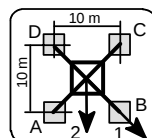
KR 16 - 80/100	Corner distance 10,0 m x 10,0 m
-----------------------	--

Jib length 45 m

[illegible]

3.2.5.5 Center ballasts and corner loads to DIN 15019

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



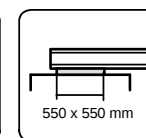
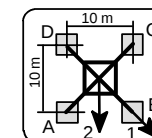
KR 16 - 80/100 Corner distance 10,0 m x 10,0 m

Jib length 50 m

[illegible]

3.2.5.6 Center ballasts and corner loads to DIN 15019

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



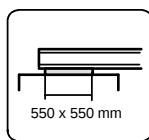
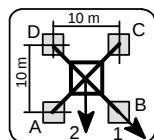
KR 16 - 80/100	Corner distance 10,0 m x 10,0 m
-----------------------	--

Jib length 55 m

[illegible]

3.2.5.7 Center ballasts and corner loads to DIN 15019

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



KR 16 - 80/100

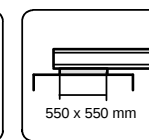
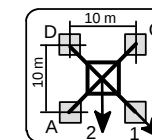
Corner distance 10,0 m x 10,0 m

Jib length 60 m

[illegible]

3.2.5.8 Center ballasts and corner loads to DIN 15019

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



KR 16 - 80/100

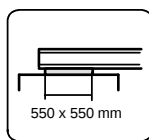
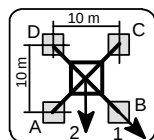
Corner distance 10,0 m x 10,0 m

Jib length 65 m

[illegible]

3.2.5.9 Center ballasts and corner loads to DIN 15019

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



KR 16 - 80/100

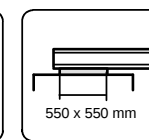
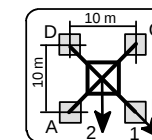
Corner distance 10,0 m x 10,0 m

Jib length 70 m

[illegible]

3.2.5.10 Center ballasts and corner loads to DIN 15019

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



KR 16 - 80/100

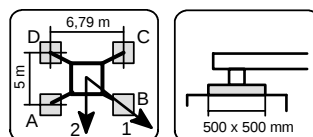
Corner distance 10,0 m x 10,0 m

Jib length 75 m

[illegible]

3.3.1.1 Center ballasts and corner loads acc. to DIN 15019

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

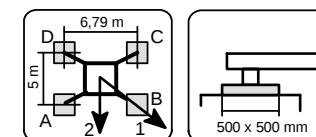


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 30 m
-----------	------------------------------	-----------------

[illegible]

3.3.1.2 Center ballasts and corner loads acc. to DIN 15019

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

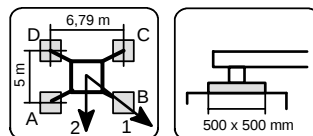


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 35 m
-----------	------------------------------	-----------------

[illegible]

3.3.1.3 Center ballasts and corner loads acc. to DIN 15019

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

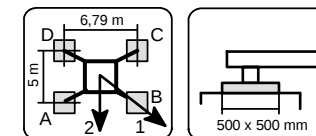


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 40 m
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[illegible]

3.3.1.4 Center ballasts and corner loads acc. to DIN 15019

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

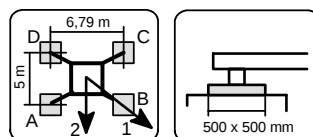


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 45 m
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[illegible]

3.3.1.5 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

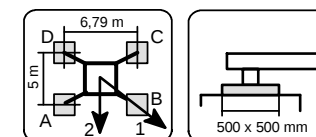
Corner distance 5 m x 6,79 m

Jib length 50 m

[illegible]

3.3.1.6 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

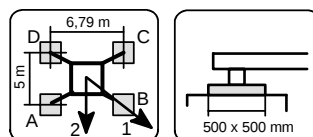
Corner distance 5 m x 6,79 m

Jib length 55 m

[illegible]

3.3.1.7 Center ballasts and corner loads acc. to DIN 15019

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

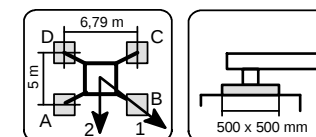


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 60 m
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[illegible]

3.3.1.8 Center ballasts and corner loads acc. to DIN 15019

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

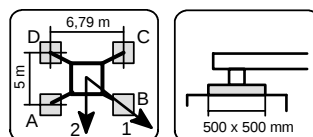


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 65 m
-----------	------------------------------	-----------------

[illegible]

3.3.1.9 Center ballasts and corner loads acc. to DIN 15019

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

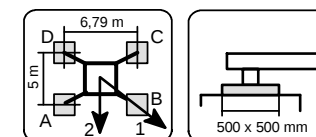


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 70 m
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[illegible]

3.3.1.10 Center ballasts and corner loads acc. to DIN 15019

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

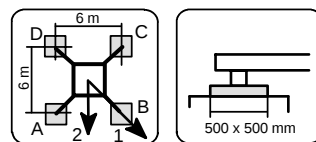


KRE 260.2	Corner distance 5 m x 6,79 m	Jib length 75 m
-----------	------------------------------	-----------------

[illegible]

3.3.2.1 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

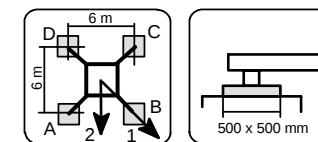
Corner distance 6 m x 6 m

Jib length 30 m

[illegible]

3.3.2.2 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

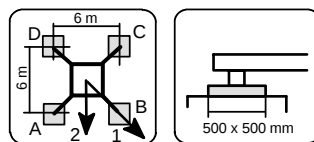
Corner distance 6 m x 6 m

Jib length 35 m

[illegible]

3.3.2.3 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

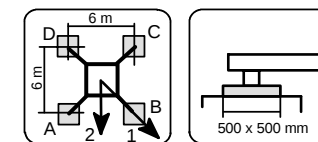
Corner distance 6 m x 6 m

Jib length 40 m

[illegible]

3.3.2.4 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

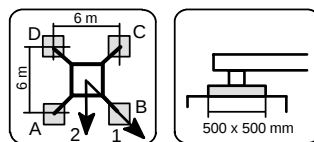
Corner distance 6 m x 6 m

Jib length 45 m

[illegible]

3.3.2.5 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

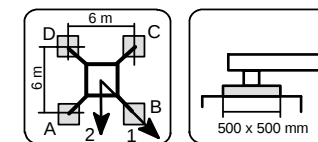
Corner distance 6 m x 6 m

Jib length 50 m

[illegible]

3.3.2.6 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

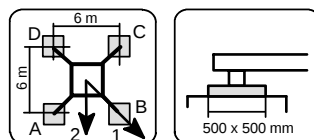
Corner distance 6 m x 6 m

Jib length 55 m

[illegible]

3.3.2.7 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

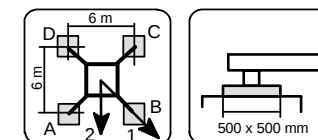
Corner distance 6 m x 6 m

Jib length 60 m

[illegible]

3.3.2.8 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

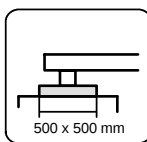
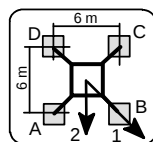
Corner distance 6 m x 6 m

Jib length 65 m

[illegible]

3.3.2.9 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

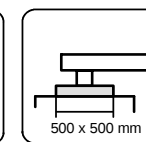
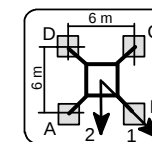
Corner distance 6 m x 6 m

Jib length 70 m

[illegible]

3.3.2.10 Center ballasts and corner loads acc. to DIN 15019

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



KRE 260.2

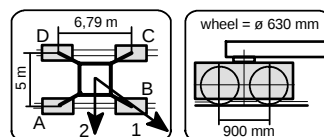
Corner distance 6 m x 6 m

Jib length 75 m

[illegible]

3.4.1.1 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive

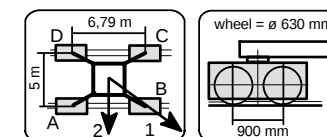


UW 260.3	Corner distance 5 m x 6,79 m	Jib length 30 m
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[illegible]

3.4.1.2 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive

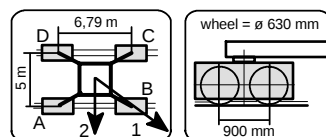


UW 260.3	Corner distance 5 m x 6,79 m	Jib length 35 m
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[illegible]

3.4.1.3 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



UW 260.3

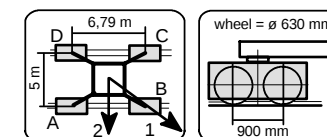
Corner distance 5 m x 6,79 m

Jib length 40 m

[illegible]

3.4.1.4 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



UW 260.3

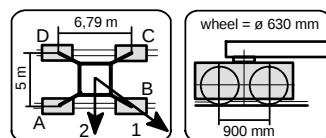
Corner distance 5 m x 6,79 m

Jib length 45 m

[illegible]

3.4.1.5 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



UW 260.3

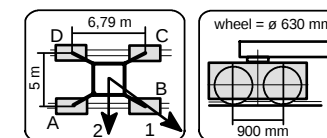
Corner distance 5 m x 6,79 m

Jib length 50 m

[illegible]

3.4.1.6 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



UW 260.3

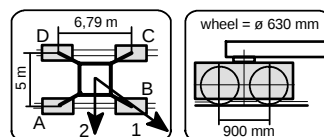
Corner distance 5 m x 6,79 m

Jib length 55 m

[illegible]

3.4.1.7 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



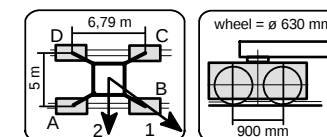
UW 260.3

Corner distance 5 m x 6,79 m

Jib length 60 m

3.4.1.8 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



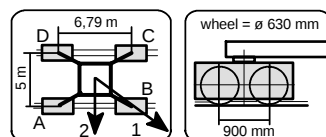
UW 260.3

Corner distance 5 m x 6,79 m

Jib length 65 m

3.4.1.9 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



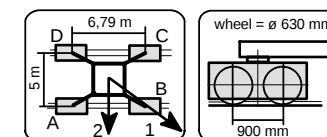
UW 260.3

Corner distance 5 m x 6,79 m

Jib length 70 m

3.4.1.10 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



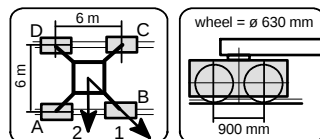
UW 260.3

Corner distance 5 m x 6,79 m

Jib length 75 m

3.4.2.1 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



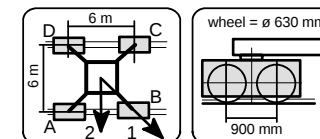
UW 260.3

Corner distance 6 m x 6 m

Jib length 30 m

3.4.2.2 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



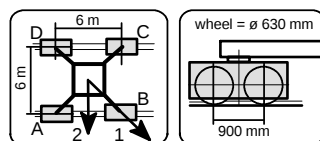
UW 260.3

Corner distance 6 m x 6 m

Jib length 35 m

3.4.2.3 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



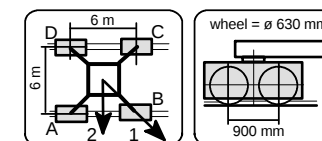
UW 260.3

Corner distance 6 m x 6 m

Jib length 40 m

3.4.2.4 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



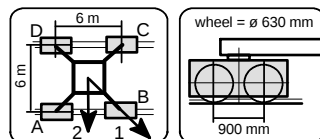
UW 260.3

Corner distance 6 m x 6 m

Jib length 45 m

3.4.2.5 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



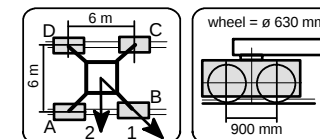
UW 260.3

Corner distance 6 m x 6 m

Jib length 50 m

3.4.2.6 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



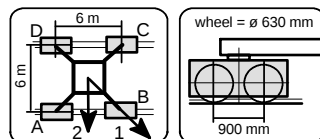
UW 260.3

Corner distance 6 m x 6 m

Jib length 55 m

3.4.2.7 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



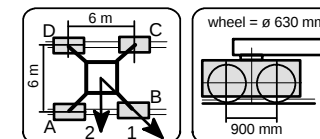
UW 260.3

Corner distance 6 m x 6 m

Jib length 60 m

3.4.2.8 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



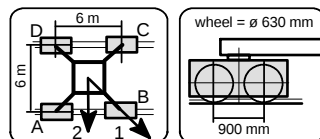
UW 260.3

Corner distance 6 m x 6 m

Jib length 65 m

3.4.2.9 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



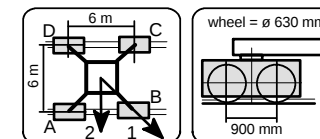
UW 260.3

Corner distance 6 m x 6 m

Jib length 70 m

3.4.2.10 Center ballasts and corner loads acc. to DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



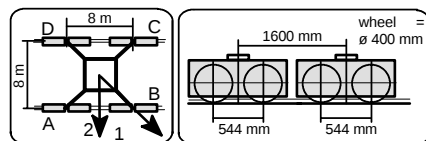
UW 260.3

Corner distance 6 m x 6 m

Jib length 75 m

3.4.3.7 Center ballasts and corner loads - DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



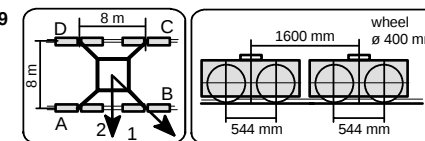
UW 480

Corner distance 8 m x 8 m

Jib length 60 m

3.4.3.8 Center ballasts and corner loads - DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



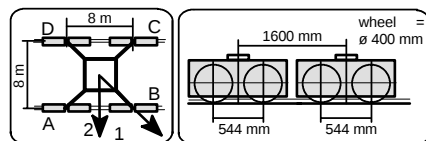
UW 480

Corner distance 8 m x 8 m

Jib length 65 m

3.4.3.9 Center ballasts and corner loads - DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



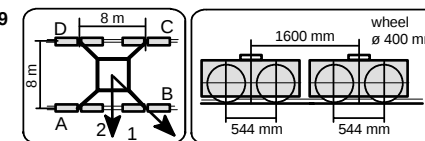
UW 480

Corner distance 8 m x 8 m

Jib length 70 m

3.4.3.10 Center ballasts and corner loads - DIN 15019

for a travelling tower crane on an undercarriage without climbing drive



UW 480

Corner distance 8 m x 8 m

Jib length 75 m