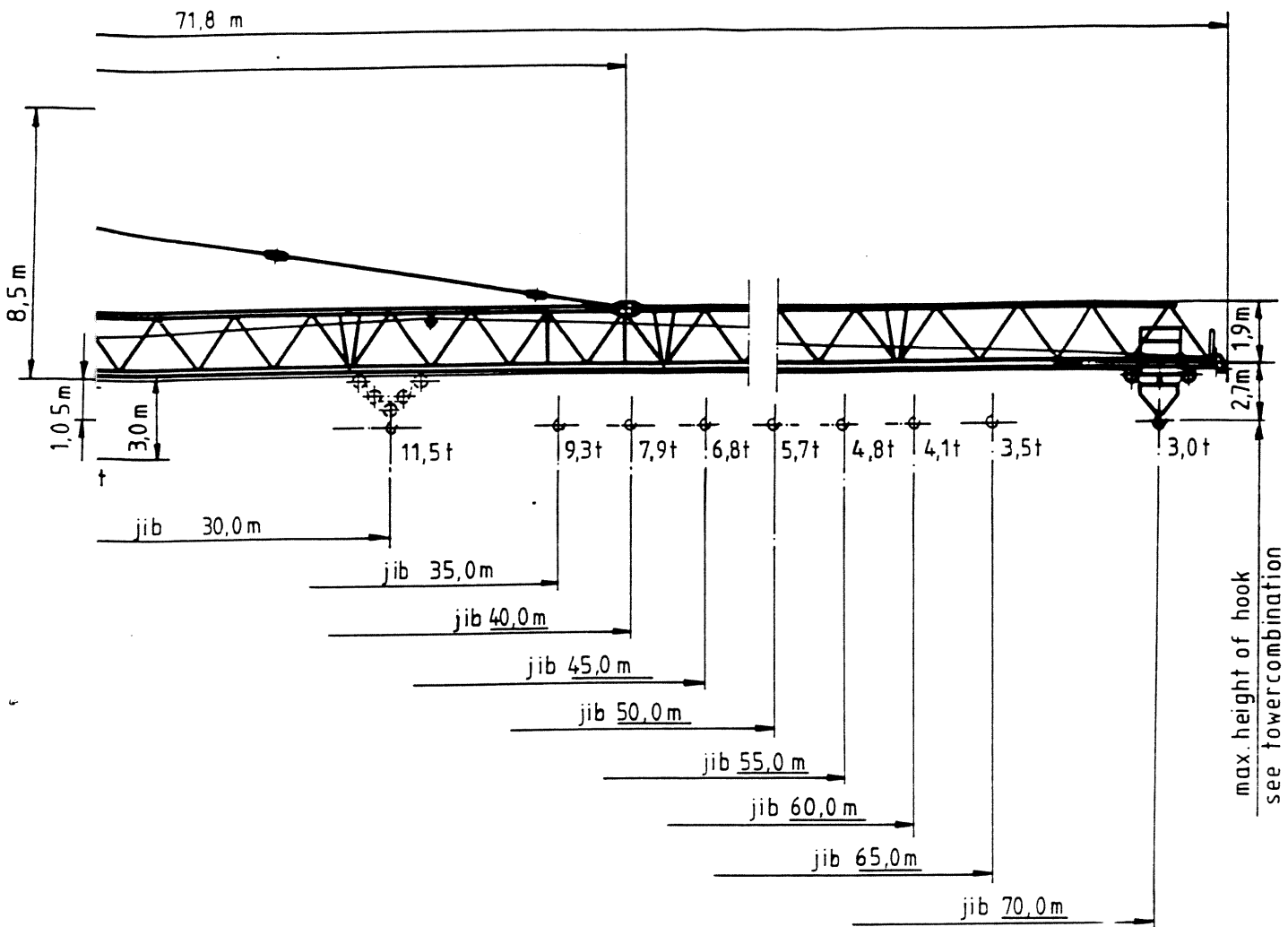


## Technical documentation



20. 22.05.01. 2/4



model : WK 280 EC

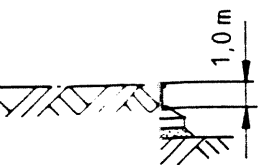
kind of crane : tower crane with horizontal jib,  
top-slewing, self-climbing

installation : stationary or travelling

calculation base : FEM.3

max. load moment : 3480 kNm

R 1000-6



# Wolffkran WK 280 EC

arranges and crossframes upon request.  
height under hook is reduced by 0,3 m.

Bemerkungen	Genehmigungsweg	Zeichnungs-Nr. des Aufmaßplans
Verwendungsbereich	Zur Abw. mittel DIN 7168 Genauigkeitssgr. B DIN 8570 Oberfl. Reihe 2 DIN 3141	Maßstab 1:200 Werkstoff Modell-Nr. Rollen-Sach-Nr.
	16.982 Schw.	Benennung WK280EC
		Über gene
	MAN WOLFFKRAN GMBH HEILBRONN	Zeichnungsnummer XIV 10745 E

# Wolffkran 280 EC

XIV 10659 E  
FEM

## TECHNICAL DATA

### CAPACITY - RADIUS

	Radius [m]	2,6-	30	35	40	45	50	55	60	65	70
<b>12,0</b>	30	2,6 - 29,00	<b>11,50</b>								
	35	2,6 - 28,00	11,11	<b>9,30</b>							
	40	2,6 - 27,40	10,97	9,22	<b>7,90</b>						
	45	2,6 - 27,10	10,84	9,11	7,82	<b>6,80</b>					
	50	2,6 - 25,90	10,34	8,69	7,45	6,49	<b>5,70</b>				
	55	2,6 - 25,10	9,88	8,29	7,11	6,18	5,45	<b>4,80</b>			
	60	2,6 - 23,80	9,35	7,84	6,71	5,83	5,13	4,55	<b>4,10</b>		
	65	2,6 - 22,80	9,04	7,57	6,48	5,62	4,94	4,38	3,92	<b>3,50</b>	
	70	2,6 - 21,90	8,55	7,15	6,11	5,29	4,64	4,11	3,66	3,29	<b>3,00</b>

### ARRANGEMENT OF COUNTERWEIGHTS

Jib [m]	30	35	40	45
to tower				
Tot. weight [t]	<b>8,2</b>	<b>9,3</b>	<b>11,3</b>	<b>14,4</b>
	<b>50</b>	<b>55</b>	<b>60</b>	<b>65</b>
	<b>14,4</b>	<b>17,5</b>	<b>20,6</b>	<b>23,7</b>
	<b>70</b>			
	<b>26,8</b>			

### OPERATIONAL SPEEDS - MOTOROUTPUTS

Drive [Typ]	Operational speeds [Motion]		Reev- ing [falls]	max. Hook- travel [m]	Output [kW]	Total Output [kW]
		[m/min]				
Hw 6663	Hoisting 2,0 t up to 4,0 t 6,0 t	124,0 70,0 50,0	2	200	66	84,6
	Hoisting 4,0 t up to 8,0 t 12,0 t	62,0 35,0 25,0				
Tw 70 FSG	Travers. 6,0 t up to 12,0 t	80/40/20 40/20			6,0	
Dw - FSG	Slewing	0,7 min <sup>-1</sup>			2 x 6,3	
Fw	Cranetravel	25			11 - 22	95,6 - 106,6

20.05.03 C.L.

# Wolffkran 280 EC

XIV 10660 E  
FEM

## TECHNICAL DATA

### CAPACITY - RADIUS

	Radius [m]	2,6-	30	35	40	45	50	55	60	65	70	
12,0	30	2,6-29,00	11,50									
	35	2,6-28,00	11,11	9,30								
	40	2,6-27,40	10,97	9,22	7,90							
	45	2,6-27,10	10,84	9,11	7,82	6,80						
	50	2,6-25,90	10,34	8,69	7,45	6,49	5,70					
	55	2,6-25,10	9,88	8,29	7,11	6,18	5,45	4,80				
	60	2,6-23,80	9,35	7,84	6,71	5,83	5,13	4,55	4,10			
	65	2,6-22,80	9,04	7,57	6,48	5,62	4,94	4,38	3,92	3,50		
	70	2,6-21,90	8,55	7,15	6,11	5,29	4,64	4,11	3,66	3,29	3,00	

### ARRANGEMENT OF COUNTERWEIGHTS

Jib [m]	30	35	40	45
to tower				
Tot. weight [t]	8,2	8,2	11,3	14,4
50	55	60	65	70
14,4	17,5	20,6	23,7	26,8

### OPERATIONAL SPEEDS - MOTOROUTPUTS

Drive [Typ]	Operational speeds		Reev- ing [falls]	max. Hook- travel [m]	Output [kW]	Total Output [kW]
	[Motion]	[m/min]				
Hw 6753	Hoisting up to	2,0t 4,0t 6,0t	140,0 80,0 56,0	2	200	93,6
	Hoisting up to	4,0t 8,0t 12,0t	70,0 40,0 28,0	4	100	
Tw 70 FSG	Travers. up to	6,0t 12,0t	80/40/20 40/20		6,0	
Dw - FSG	Slewing		0,7 min <sup>-1</sup>		2 x 6,3	
Fw	Cranetravel		25		11-22	104,6-115,6

**Hoisting rope:** design according to DIN 15 020  
kind of operation TWG 1 A<sub>m</sub>

**rope  $\varnothing$  16 mm, twistfree, impregnated**

**minimum breaking strength = 135 kN**

Wolffkran rope: minimum breaking strength = 168.7 kN  
calculated breaking strength = 216.7 kN  
rated tensile strength = 1770 N/mm<sup>2</sup>

**basic equipment:**

rope length	1 x 280m	42 m height under hook 70m - jib
-------------	----------	-------------------------------------

Upon decrease or increase of the height under hook of 4.5 m,  
the necessary rope length is shortened or lengthened by 9 m with rope  
in 2 falls and by 18 m with rope in 4 falls.

**traversing ropes:** design according to DIN 15 020  
kind of operation TWG 1 A<sub>m</sub>

**rope  $\varnothing$  = 8 mm, low twist, zinc coated**

**minimum breaking strength = 38 kN**

Wolffkran rope: minimum breaking strength = 43 kN  
calculated breaking strength = 57 kN  
rated tensile strength = 1770 N/mm<sup>2</sup>

**basic equipment:**

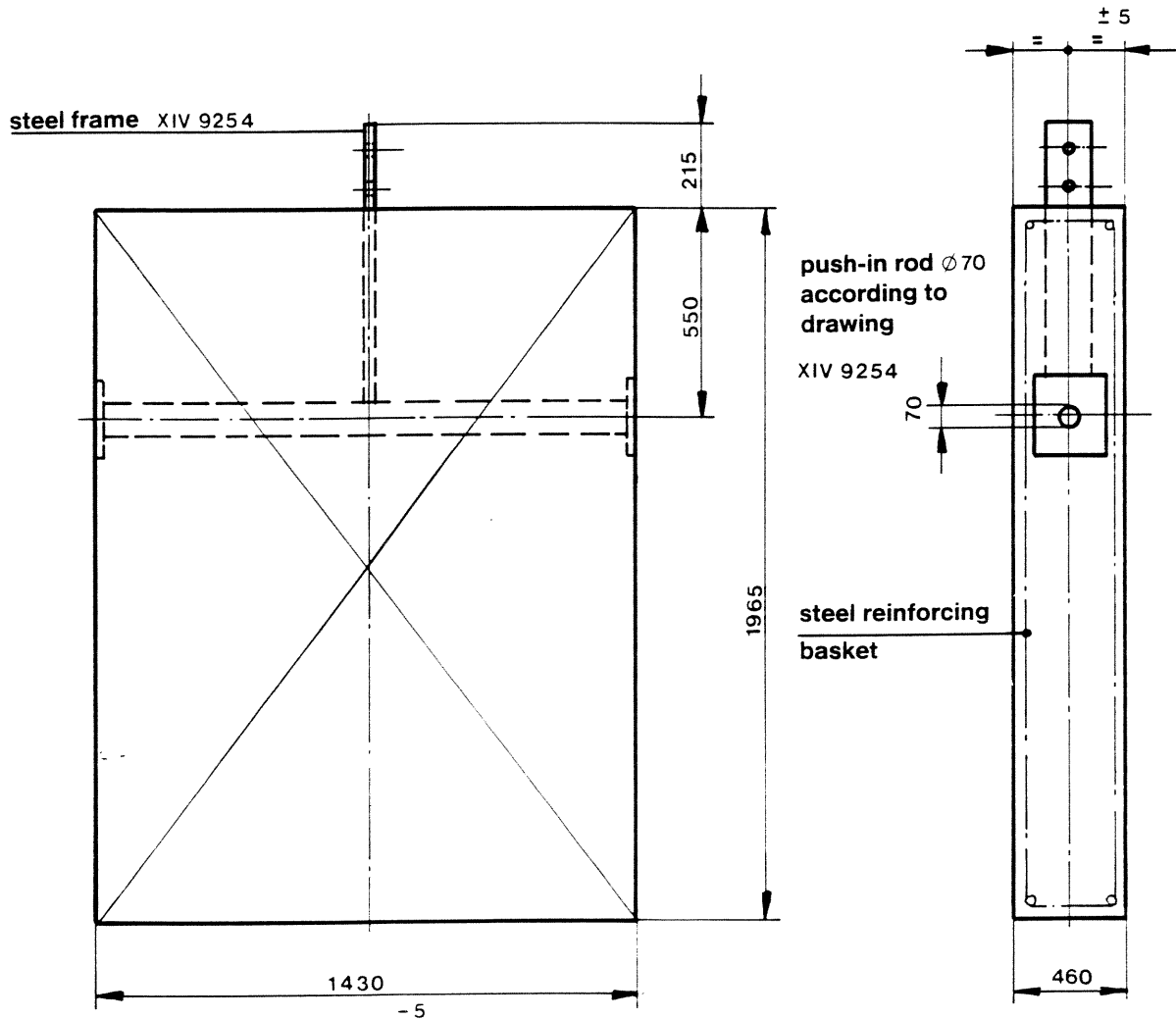
rope length	1 x 51 m	30 - 40m - jib
	1 x 76 m	
	1 x 81 m	45 - 70m - jib
	1 x 136m	

*Handwritten signature*

## Counterweights

**Material:** concrete of min. BN 250 density  $\rho = 2,4 \text{ t/m}^3$

All counterweights to be weighed again and to be clearly identified, stating the actual weight.  
max. weight allowance  $\pm 2\%$ .



Weight t	Volume m <sup>3</sup>
3,1	1,293

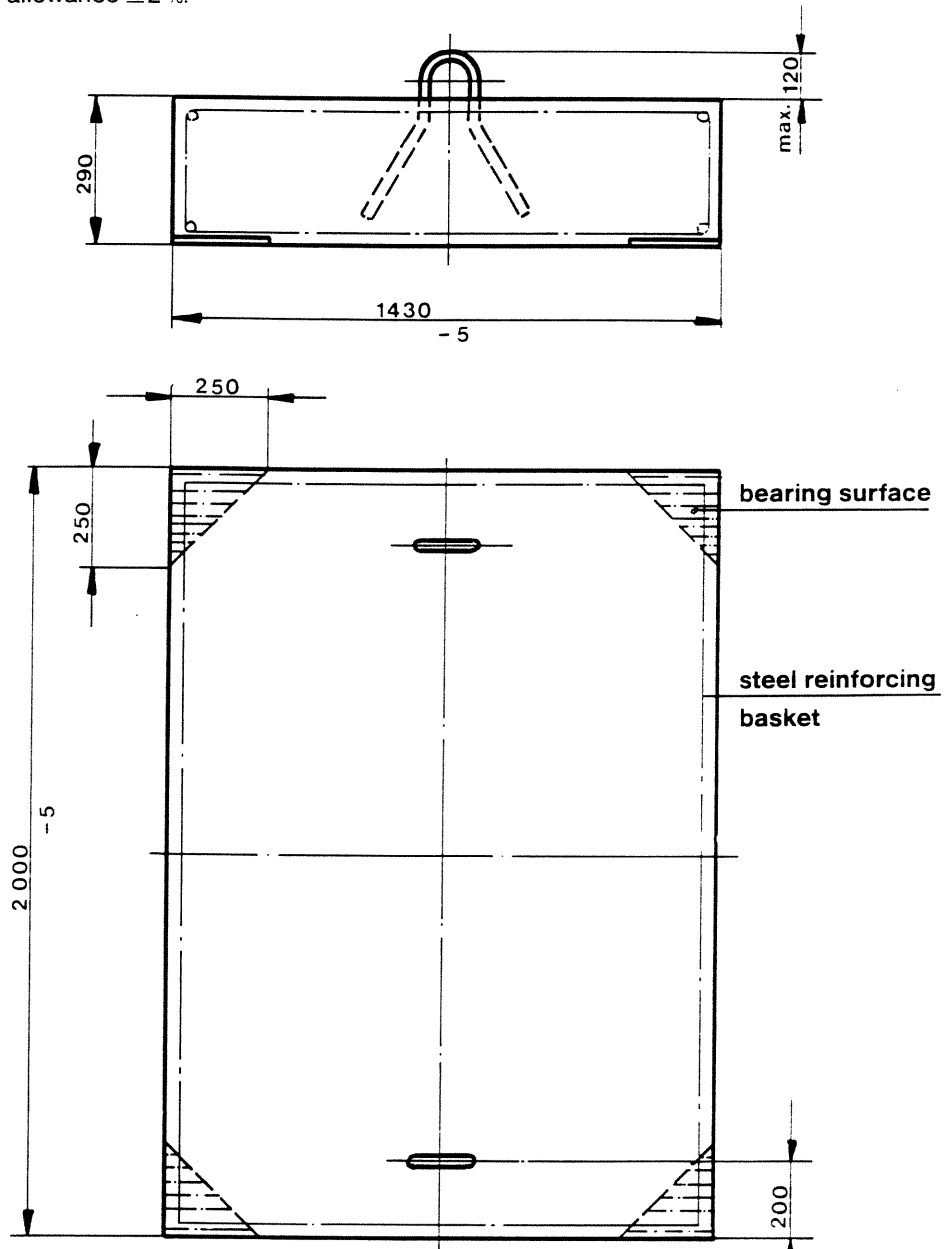
Quantity and arrangement of the counterweights  
see technical data

9.82 Scher

**Counterweights (platform with machinery)**

**Material:** concrete of min. BN 250 density  $\rho = 2,4 \text{ t/m}^3$

All counterweights to be weighed again and to be clearly identified,  
stating the actual weight.  
max. weight allowance  $\pm 2\%$ .



Weight t	Volume $\text{m}^3$
2,0	0,83

Arrangement of the counterweights  
see technical data

16 9 82 Schw

# Wolffkran 262 SL WK 280 EC

XIV 10698

Drehteil:

Hakenhöhe  
Auslegeranlenkpunkthöhe  
Gesamthöhe

A = 1,5 m  
B = 4,2 m  
C = 13,0 m

Slewing part:

Height under hook  
Height of jib pivot point  
Total height

A = 1,5 m  
B = 4,2 m  
C = 13,0 m

Partie tournante:

Hauteur sous crochet  
Haut. de l'axe du jib pied de fleche  
Hauteur totale

A = 1,5 m  
B = 4,2 m  
C = 13,0 m

1 2 3 4 5 6

Turmelemente Tower elements Éléments de tour	Hakenhöhe (m) Height of hook (m) Hauteur sous crochet (m)				
1	6,0	UV20.3	UV20.3	UV20.3	UV20.3
2	10,5	UV20.3	UV20.3	UV20.3	UV20.3
3	15,0	UV20.3	UV20.3	UV20.3	UV20.3
4	19,5	UV20.3	UV20.3	UV20.3	UV20.3
5	24,0	UV20.3	UV20.3	UV20.3	UV20.3
6	28,5	UV20.3	UV20.3	UV20.3	UV20.3
7	33,0	UV20.3	UV20.3	UV20.3	UV20.3
8	37,5	UV20.3	UV20.3	UV20.3	TVA20.3
9	42,0	UV20.3	UV20.3	TVA20.3	TV20
10	46,5	UV20.3	TVA20.3	TV20	TV20
11	51,0		TV20	TV20	TV20
12	55,5		TV20	TV20	TV20
13	60,0			TV20	TV20
14	64,5			TV20	TVÜ20
15	69,0				TV25
16	73,5				TV25
17	78,0				
18	82,5				

Die hier gezeigten Turmkombinationen stellen Empfehlungen für eine kostengünstige Krananstellung dar und können jederzeit verwendet werden. Jedes Turmelement gilt in der gezeigten Position auch als Turmbasisstück bei stationären Aufstellungen mit kleineren Hakenhöhen. Turmkombinationen mit größeren Hakenhöhen oder anderen Turmelementen sind möglich, müssen aber vor Aufstellung des Kranes von uns geprüft und schriftlich bestätigt werden.

The tower configurations are recommended for economic crane installations and may be used in any case. Each tower element in its indicated position may be used as a basic tower element for static cranes with its corresponding height under hook. Tower configurations not shown here, with greater heights u. h. or by means of other tower elements are possible but must be checked and confirmed by us in every individual case and before crane installation starts.

Les configurations de tour représentées constituent des recommandations pour une installation de grue favorable; elles peuvent être utilisées toujours. Chaque élément de tour fait également fonction dans la position représentée, élément de base de tour au cas d'installation stationnaire avec des hauteurs sous crochet moins importantes. Des combinaisons de tour avec des hauteurs plus importantes ou avec d'autres éléments de tour sont possibles, mais doivent être vérifiées et confirmées par avis écrit de nos services avant l'installation de la grue.



# Wolffkran 262 SL WK 280 EC

XIV 10699

Drehteil:

Hakenhöhe A = 1,5 m  
 Auslegeranlenkpunkthöhe B = 4,2 m  
 Gesamthöhe C = 13,0 m

Slewing part:

Height under hook  
 Height of jib pivot point  
 Total height

Partie tournante:

Hauteur sous crochet A = 1,5 m  
 Haut. de l'axe du pied de fleche B = 4,2 m  
 Hauteur totale C = 13,0 m

		1	2	3	4	5	6
Turmelemente Lower elements Éléments de tour	Hakenhöhe (m) Height of hook (m) Hauteur sous crochet (m)						
1	6.0		UV20.3	UV20.3	UV20.3	UV20.3	
2	10.5		UV20.3	UV20.3	UV20.3	UV20.3	
3	15.0		UV20.3	UV20.3	UV20.3	UV20.3	
4	19.5		UV20.3	UV20.3	UV20.3	UV20.3	
5	24.0		UV20.3	UV20.3	UV20.3	UV20.3	
6	28.5		UV20.3	UV20.3	UV20.3	UV20.3	
7	33.0		UV20.3	UV20.3	UV20.3	UV20.3	
8	37.5		UV20.3	UV20.3	UV20.3	TVA20.3	
9	42.0		TVA20.3	TVA20.3	TVA20.3	TV20	
10	46.5			TV20	TV20	TV20	
11	51.0	UW260.2		TV20	TV20	TV20	
12	55.5			TV20	TV20	TV20	
13	60.0					TV20	
14	64.5		UW260.3 UW460	UW280.1		TVÜ20	
15	69.0						
16	73.5					UW280.2 UW480	
17	78.0						
18	82.5						

Die hier gezeigten Turmkombinationen stellen Empfehlungen für eine kostengünstige Kranaufstellung dar und können jederzeit verwendet werden. Jedes Turmelement gilt in der gezeigten Position auch als Turmbasisstück bei stationären Aufstellungen mit kleineren Hakenhöhen. Turmkombinationen mit größeren Hakenhöhen oder anderen Turmelementen sind möglich, müssen aber vor Aufstellung des Kranes von uns geprüft und schriftlich bestätigt werden.

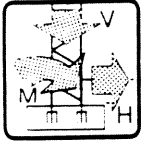
The tower configurations are recommended for economic crane installations and may be used in any case. Each tower element in its indicated position may be used as a basic tower element for static cranes with its corresponding height under hook. Tower configurations not shown here, with greater heights u. h. or by means of other tower elements are possible but must be checked and confirmed by us in every individual case and before crane installation starts.

Les configurations de tour représentées constituent des recommandations pour une installation de grue favorable; elles peuvent être utilisées toujours. Chaque élément de tour fait également fonction dans la position représentée, élément de base de tour au cas d'installation stationnaire avec des hauteurs sous crochet moins importantes. Des combinaisons de tour avec des hauteurs plus importantes ou avec d'autres éléments de tour sont possibles, mais doivent être vérifiées et confirmées par avis écrit de nos services avant l'installation de la grue.

# Wolffkran WK 280EC

XIV 10693  
E

## Foundationloads



for cranes free standing without climbers on concrete foundation. Values given are for least favourable jib length. Other length of jib may result into lower foundation loads.

### Always acting loads are:

Vertical forces of loadcase 2 and a moment of 1421 kNm.

free stand- ing height under hook (m)	Crane in service (for loadcase 1 of DIN 1054) torquemoment: 229 kNm		
	M (kNm)*	H (kN)*	V (kN)*
15,0	2448	54	574
19,5	2665	55	594
24,0	2894	56	614
28,5	3135	57	634
33,0	3390	58	654
37,5	3659	59	674
42,0	3944	61	694
46,5	4248	62	714
51,0	4517	64	757
55,5	4830	66	788
60,0	5149	68	830
64,5	5505	69	861
69,0	5808	72	912
73,5	6299	74	935

Crane out of service (for loadcase 2 of DIN 1054) torquemoment: 0 kNm		
M (kNm)*	H (kN)*	V (kN)*
2889**	43	455
2976**	44	473
3069**	45	491
3168**	47	509
3274**	48	527
3392**	50	546
3520**	52	574
3656**	54	602
3801**	56	631
3956**	58	659
4346	114	940
5041	122	968
5742	132	1014
6535	141	1046

\*New units for forces and moments to international law: 10 kNm ≈ 1 tfm

10 kN ≈ 1 tf

\*\* Moments during crane erection

M = Moment

H = Horizontal force

V = Vertical load

# Wolffkran 262 SL WK 280 EC XIV 10548 E

## Colli List

Pos.	Quantity	Description	Colli	L (m)	W (m)	H (m)	Weight (kg)	Volume (m <sup>3</sup> )
1	1	tower top, slipping system various bracing parts slewing frame, KDV, slewing drive lower tower top part		12,96	2,42	2,45	12 100	76,8
Pos. 1 divided up		tower top, slipping system various bracing parts		8,50	1,36	1,80	3 800	20,8
		slewing frame, KDV, slew. drive L lower tower top part (without slewing drive) L*		5,92	2,42	2,45	8 300	35,1
		lower tower top part KDV		4,71	2,42	2,45	7 700	27,9
		lower tower top part		3,78	2,03	2,45	4 610	18,8
	lower tower top part		3,66	2,03	2,45	3 910	18,2	
2	1	lower top platform		1,00	0,91	1,14	50	1,0
3	1	driver's cabin suspension		1,16	2,00	0,50	210	1,2
4	1	driver's cabin standard		1,70	1,05	2,16	455	3,9
		special		2,10	1,20	2,20	610	5,5
5	1	counter jib - head		10,16	1,84	0,61	2 220	11,4
6	1	counter jib - foot		10,00	2,05	0,76	2 580	15,6
7	1	counter jib platform		3,01	1,54	0,4	200	1,9
8	1	platform with hoist unit		2,36	3,75	1,65	5 800	14,6
9	1	jib part with traversing drive		10,22	1,75	2,32	2 650	41,6
10	1	jib part		10,22	1,71	2,16	1 950	37,8
11	1	jib part		10,22	1,71	2,16	1 920	37,8
12	1	jib part		10,27	1,71	2,16	1 960	37,9
13	1	jib part		10,30	1,69	1,94	1 650	33,8
14	1	jib part		5,31	1,69	1,94	940	17,4
15	1	jib part		5,27	1,69	1,93	720	17,2
16	1	jib part		10,23	1,69	1,93	1 230	33,4
17	1	maintenance platform		0,65	0,89	1,40	55	0,8
18	1	rope swivel traverse traversing rope pulley		0,95	1,65	0,43	130	0,7
19	1	bracing parts		10,10	0,3	0,7	2 400	2,1
20	1	trolley, complete		2,21	1,95	0,93	390	4,0
21	1	hook block		1,30	0,24	1,59	585	0,5
22	1	standard handrails		2,60	1,05	1,30	350	3,6
23	1	crate with small parts		1,60	0,90	0,80	400	1,2

## Basic erection

For 10.5 m height under hook of the construction crane.

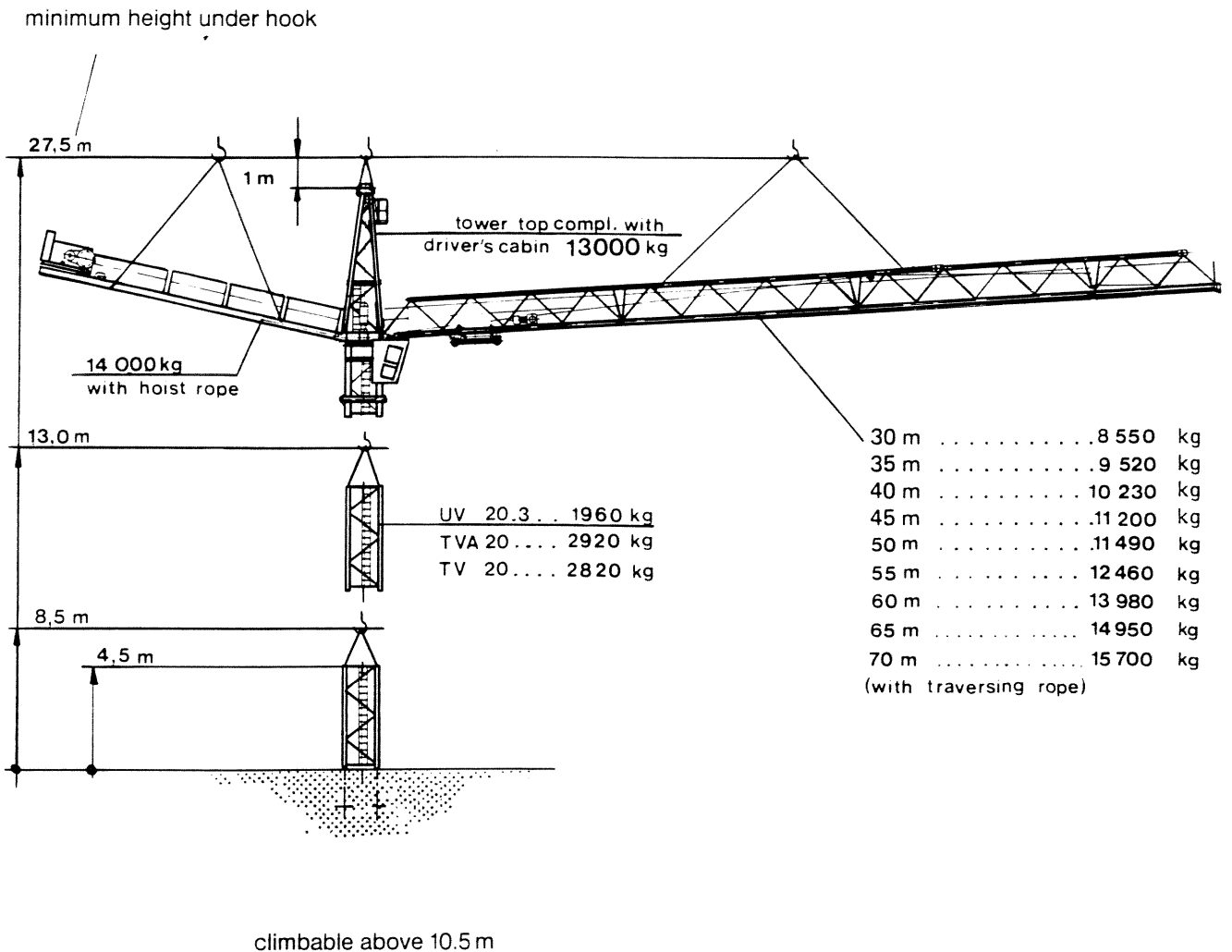
Erection single weights and heights under hook for the mobile crane.

For every additional tower element the necessary height under hook will be increased by

### Attention:

Upon basic erections with restricted erection weights, the main parts jib – tower top – counter jib can be further disassembled.

Further details colli list.



5.9.82 Schw. / Za.

## Basic erection

For 15.0 m height under hook of the construction crane.

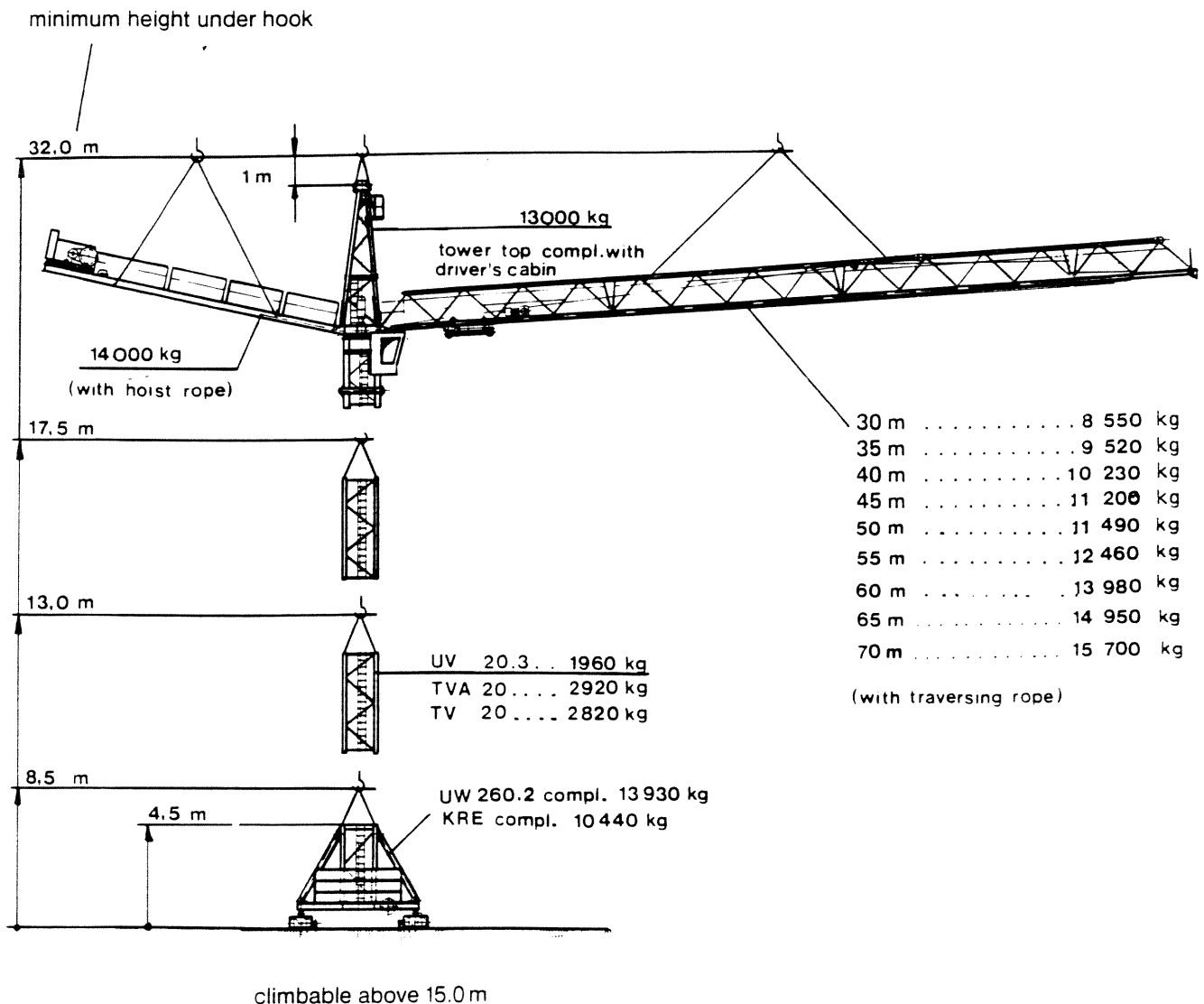
Erection single weights and heights under hook for the mobile crane.

For every additional tower element the necessary height under hook will be increased by 4.5 m.

### Attention:

Upon basic erections with restricted erection weights, the main parts jib – tower top – counter jib can be further disassembled.

Further details colli list.



16 9 82 Schw. / a.

List of pins

Pos.	Connection	Pins		Spring plug		Split pin		
		Quantity	Dimension [mm]	Quantity	Dimension [mm]	Quantity	Dimension [mm]	
1	Jib joint, top	30 m	2	∅ 95/∅ 85 x 187	2	∅ 10/80		
		35 m	3	∅ 95/∅ 85 x 187	3	∅ 10/80		
		40 m	3	∅ 95/∅ 85 x 187	3	∅ 10/80		
		45 m	4	∅ 95/∅ 85 x 187	4	∅ 10/80		
		50 m	4	∅ 95/∅ 85 x 187	4	∅ 10/80		
		55 m	5	∅ 95/∅ 85 x 187	5	∅ 10/80		
		60 m	5	∅ 95/∅ 85 x 187	5	∅ 10/80		
		65 m	6	∅ 95/∅ 85 x 187	6	∅ 10/80		
		70 m	7	∅ 95/∅ 85 x 187	7	∅ 10/80		
	Jib joint, bottom	30 m	6	∅ 90/∅ 80 x 177	6	∅ 10/80		
		35 m	8	∅ 90/∅ 80 x 177	8	∅ 10/80		
		40 m	8	∅ 90/∅ 80 x 177	8	∅ 10/80		
		45 m	10	∅ 90/∅ 80 x 177	10	∅ 10/80		
		50 m	10	∅ 90/∅ 80 x 177	10	∅ 10/80		
		55 m	12	∅ 90/∅ 80 x 177	12	∅ 10/80		
		60 m	12	∅ 90/∅ 80 x 177	12	∅ 10/80		
		65 m	14	∅ 90/∅ 80 x 177	14	∅ 10/80		
		70 m	16	∅ 90/∅ 80 x 177	16	∅ 10/80		
2	Tower top slewing frame	4	∅ 80 x 240			8	∅ 13	
3	Bracing counter jib	6	∅ 70 x 190			12	∅ 10	
		2	∅ 85/∅ 70 x 137			2	∅ 10	
4	Bracing trolley jib	30-55 m	3	∅ 80 x 240			6	∅ 13
			2	∅ 80 x 185			4	∅ 13
			1	∅ 80 x 315			2	∅ 13
			1	∅ 95/∅ 80 x 275	axle guard	40 x 10		
	60-70 m	3	∅ 80 x 240			6	∅ 13	
		3	∅ 80 x 185			6	∅ 13	
		1	∅ 80/315			2	∅ 13	
		1	∅ 95/∅ 80 x 275	axle guard	40 x 10			
5	Lower tower top	TV20	8	∅ 70 x 295	16	∅ 10/-		
		UV20	8	∅ 60 x 335	16	∅ 10/-		
6	Driver's cabin suspension	1	∅ 50 x 500	1	∅ 6/50			
7	Platform with hoist unit	2	∅ 40 x 300	4	∅ 6/40			

# Wolffkran 262 SL WK 280 EC XIV 10540 E

NG 1500

Arrangement and quantity of the  
standard handrails (NG)  
Slewing part WK 262 SL

NG 1000

trolley jib

NG 2500

driver's cabin

NG 2500

counter jib

NG 2500

NG 2500

NG 2000

chain  $\phi 6 \times 500$

NG 2500

chain  $\phi 6 \times 350$

NG 2500

NGE 300

NG 2000

NG 1000

NG 1500

NG 750

NG 1000

NG 2500

NG 2500

NG 2500

NG 2500

NG 2000

chain  
 $\phi 6 \times 800$

NG 2500

NG 1500

NG 2500

chain  $\phi 6 \times 350$

NG 2500

NG 1500

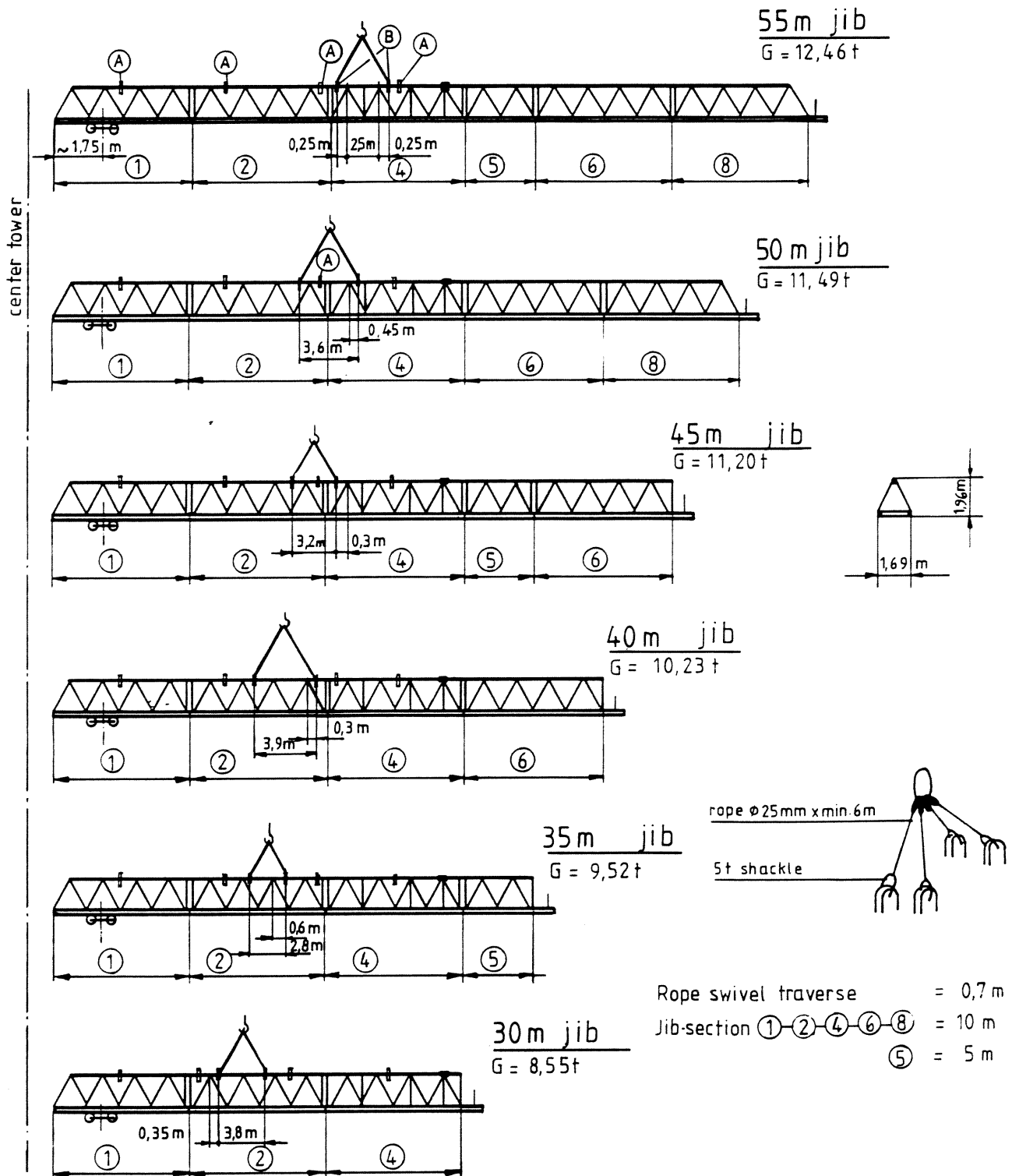
Standard handrails	
NG 750	= 1 x
NG 1000	= 3 x
NG 1500	= 4 x
NG 2000	= 3 x
NG 2500	= 13 x
NGE 300	= 1 x
chain $\phi 6 \times 500$ with 2 spring hooks	= 1 x
chain $\phi 6 \times 800$ with 2 spring hooks	= 1 x
chain $\phi 6 \times 350$ with 2 spring hooks	= 3 x

16.9.82 Schus

## Erection plan

Ⓐ Ⓑ see XIV 10751 E

The single parts of the jib are marked with the No.1-8.



### Attention when dismantling!

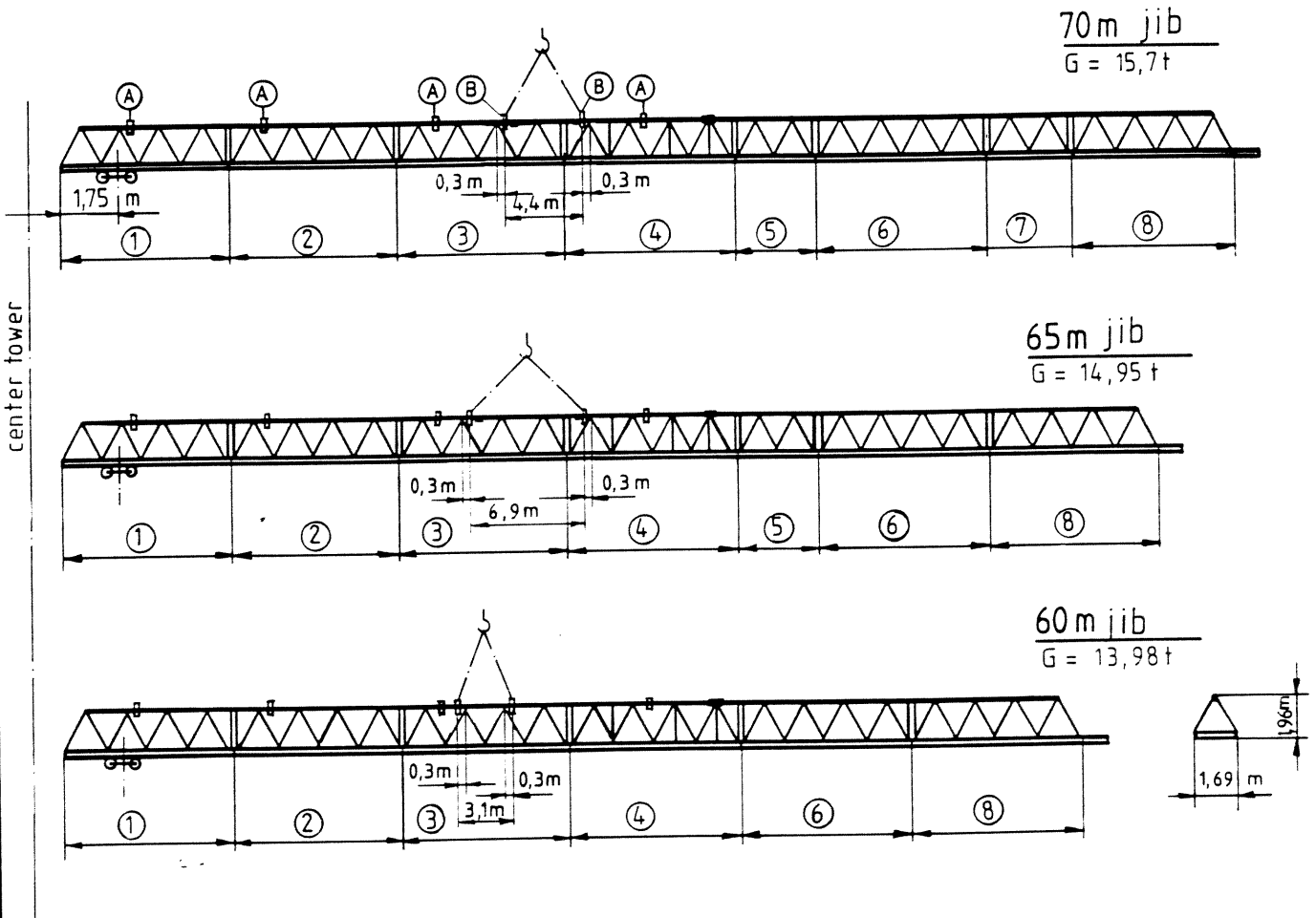
Secure jib on slewing frame via erection rope. Jib and slewing frame are provided with mounting links for this purpose. Unbolt mounting bolts on jib pivot point carefully. Jib to be properly balanced before erection rope is loosened.



## Erection plan

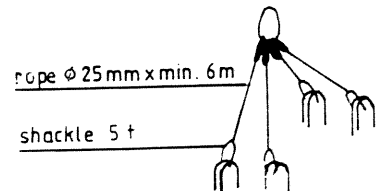
(A) (B) see XIV 10751 E

The single parts of the jib are marked with the No. 1 - 8.



Jib-section ①-②-③-④-⑥-⑧ = 10 m  
 ⑤-⑦ = 5 m

Rope swivel traverse = 0,70 m

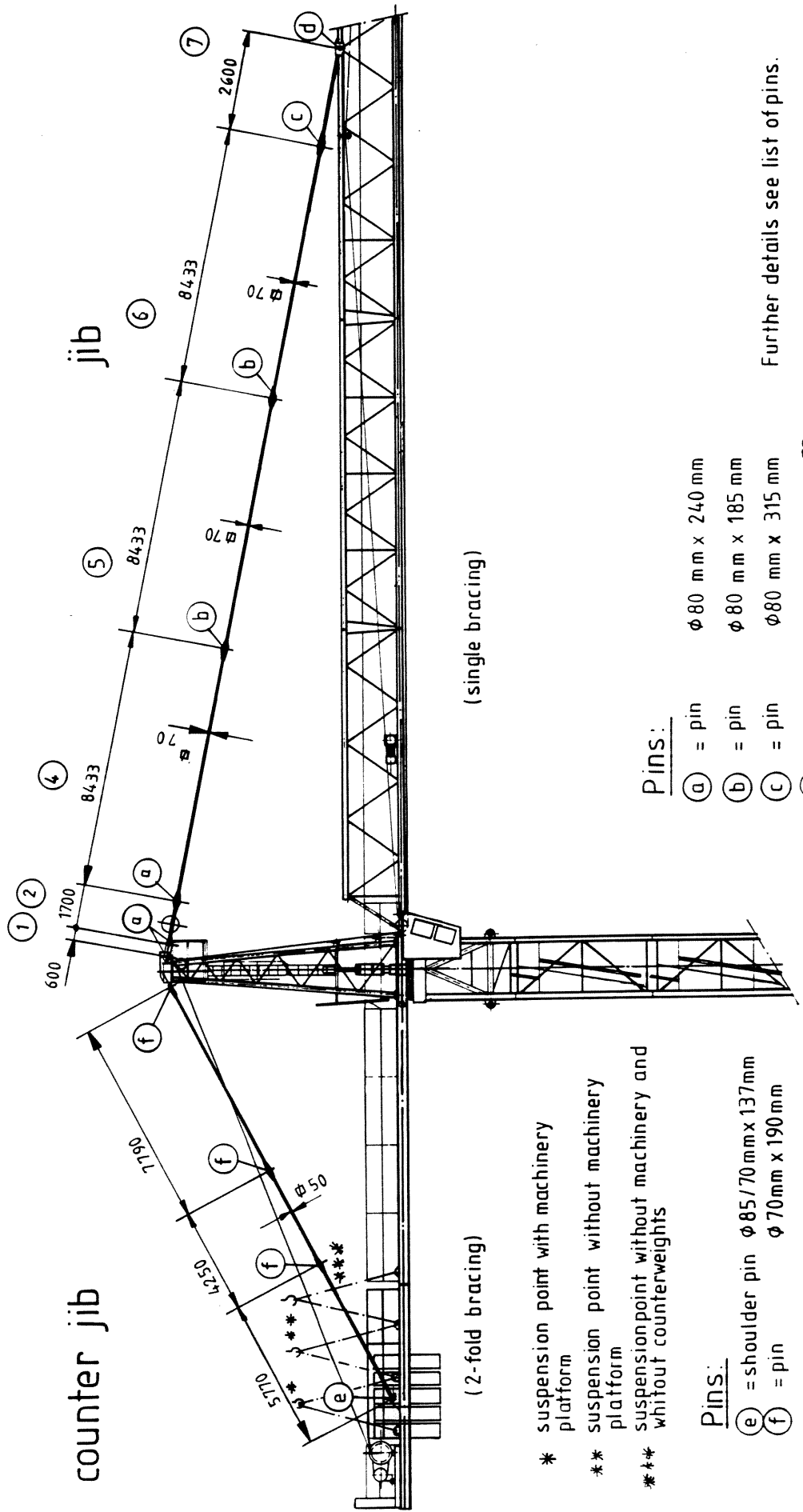


### Attention when dismantling!

Secure jib on slewing frame via erection rope. Jib and slewing frame are provided with mounting links for this purpose. Unbolt mounting bolts on jib pivot point carefully. Jib to be properly balanced before erection rope is loosened.

12 B2 (Chu) 1/4. ab Serie Nr. 811882

## Bracing\_plan 30-55m jib



- \* suspension point with machinery platform
- \*\* suspension point without machinery platform
- \*\*\* suspension point without machinery and without counterweights

**Pins:**

(e) = shoulder pin  $\phi 85/70$  mm x 137 mm

(f) = pin  $\phi 70$  mm x 190 mm

**PINS:**

(a) = pin  $\phi 80$  mm x 240 mm

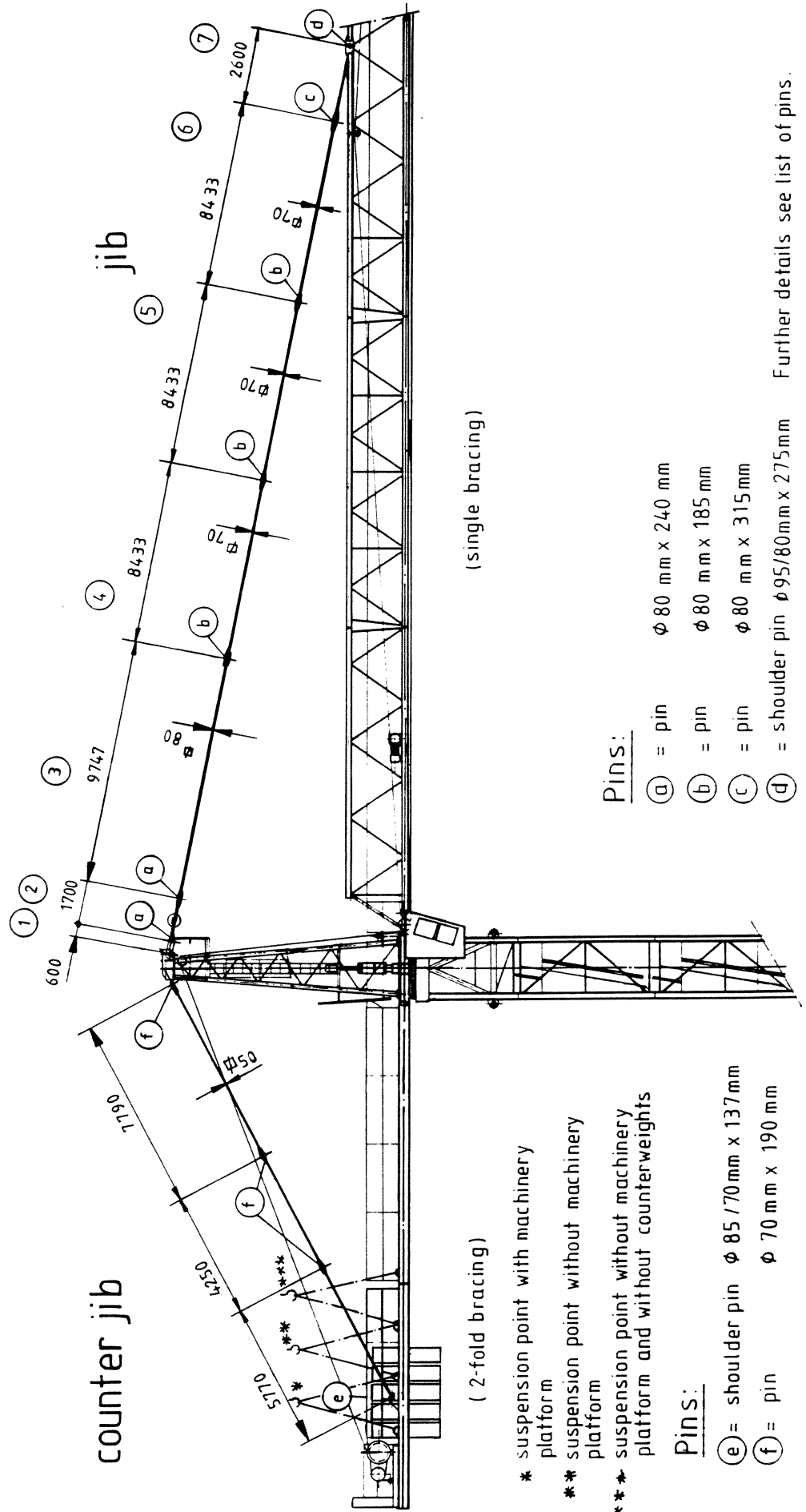
(b) = pin  $\phi 80$  mm x 185 mm

(c) = pin  $\phi 80$  mm x 315 mm

(d) = shoulder pin  $\phi 95/80$  mm x 275 mm

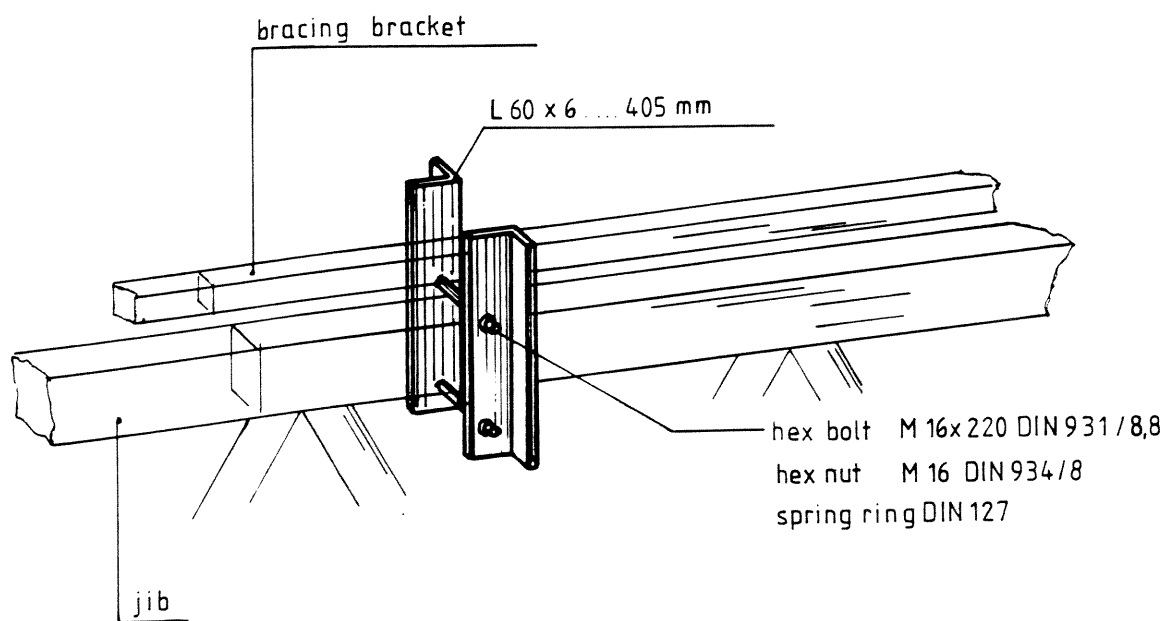
Further details see list of pins.

## Bracing plan 60-70m jib

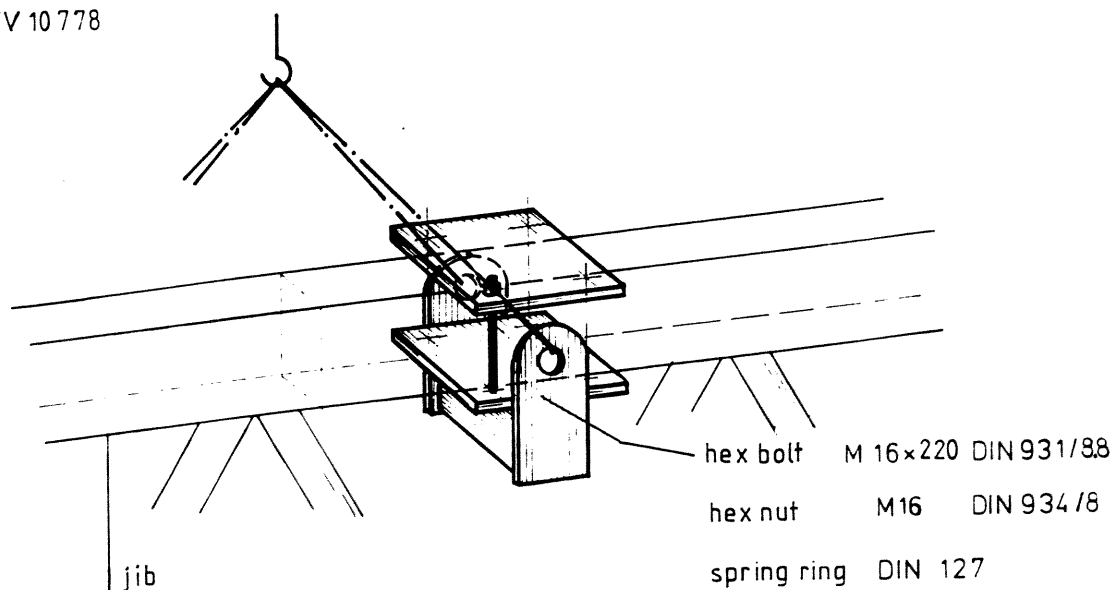


# Wolffkran 262 SL WK 280 EC XIV 10751E

## (A) Fixing XIV 10778

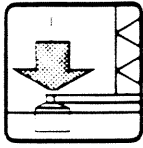
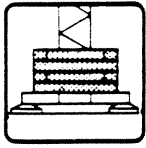


## (B) Suspension XIV 10778



# Wolffkran WK 262 SL WK 280 EC

XIV11138E



## Centerballast and Cornerloads DIN 15019

for stationary crane without climber on crossframe

Horizontal forces H and torquemoments to be taken from table "Foundation loads"

KR 1000-8, KR 1000-6

Height under hook (m)	30.0 m - jib				35.0 m - jib				40.0 m - jib				45.0 m - jib			
	Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)	
	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0
	Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*	
15.0	22.5	55.0	435	568	22.5	52.5	438	558	22.5	47.5	447	564	20.0	50.0	438	561
19.5	22.5	57.5	447	588	22.5	52.5	450	572	22.5	50.0	459	584	20.0	50.0	450	578
24.0	22.5	60.0	460	609	22.5	57.5	463	607	22.5	52.5	472	606	20.0	50.0	463	591
28.5	22.5	62.5	473	631	22.5	60.0	476	629	22.5	55.0	485	628	20.0	50.0	476	608
33.0	22.5	65.0	487	653	22.5	62.5	490	651	22.5	57.5	499	650	20.0	50.0	490	626
37.5	25.0		508		22.5		506		22.5		515		20.0		505	
42.0	25.0		524		22.5		522		22.5		531		20.0		522	
46.5	27.5		546		25.0		544		22.5		548		20.0		539	
51.0	27.5		567		25.0		565		22.5		569		20.0		559	
55.5	35.0		603		32.5		596		27.5		601		22.5		586	
60.0	42.5		641		40.0		635		35.0		657		30.0		658	
64.5	50.0		707		47.5		729		42.5		751		37.5		752	
69.0	57.5		803		55.0		831		52.5		854		47.5		856	
73.5	67.5		910		65.0		932		62.5		962		60.0		969	
78.0																

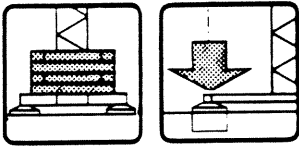
Height under hook (m)	50.0 m - jib				55.0 m - jib				60.0 m - jib				65.0 m - jib			
	Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)		Corner distance (m)	
	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0	8.0	6.0
	Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*	
15.0	20.0	50.0	432	552	20.0	50.0	433	550	20.0	50.0	440	556	20.0	50.0	443	557
19.5	20.0	50.0	444	567	20.0	50.0	445	565	20.0	50.0	452	571	20.0	50.0	456	572
24.0	20.0	50.0	457	582	20.0	50.0	458	581	20.0	50.0	465	587	20.0	50.0	468	588
28.5	20.0	50.0	470	599	20.0	50.0	471	598	20.0	50.0	479	604	20.0	50.0	482	605
33.0	20.0	50.0	484	617	20.0	50.0	485	615	20.0	50.0	493	622	20.0	50.0	496	623
37.5	20.0		500		20.0		501		20.0		508		20.0		511	
42.0	20.0		516		20.0		517		20.0		524		20.0		528	
46.5	20.0		533		20.0		534		20.0		542		20.0		545	
51.0	20.0		554		20.0		555		20.0		581		20.0		604	
55.5	20.0		588		20.0		615		20.0		652		20.0		675	
60.0	27.5		677		22.5		696		22.5		734		22.5		757	
64.5	35.0		773		35.0		800		35.0		839		37.5		868	
69.0	50.0		886		50.0		914		55.0		962		57.5		991	
73.5	65.0		1004		67.5		1033		77.5		1094		80.0		1123	
78.0																

\* New units for forces and moments to international law: 10 kNm ~ 1 tfm

10 kN ~ 1 tf

# Wolffkran WK 262 SL WK 280 EC

XIV11138E



## Centerballast and Cornerloads DIN 15019

for stationary crane without climber on crossframe

Horizontal forces H and torquemoments to be taken from table "Foundation loads"

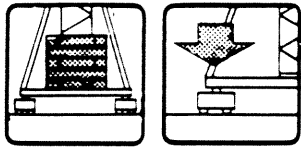
KR 1000-8, KR 1000-6

Height under hook (m)	70,0m-jib				m-jib				m-jib				m-jib			
	Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)	
	8,0	6,0	8,0	6,0	8,0	6,0	8,0	6,0	8,0	6,0	8,0	6,0	8,0	6,0	8,0	6,0
	Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*		Centerballast (t)		max. Cornerload (kN)*	
15,0	20,0	52,5	442	558												
19,5	20,0	52,5	455	573												
24,0	20,0	52,5	467	589												
28,5	20,0	52,5	481	606												
33,0	20,0	52,5	495	623												
37,5	20,0		510													
42,0	20,0		526													
46,5	20,0		564													
51,0	20,0		629													
55,5	20,0		701													
60,0	22,5		783													
64,5	40,0		898													
69,0	60,0		1022													
73,5	85,0		1159													
78,0																

Height under hook (m)	m-jib		m-jib		m-jib		m-jib	
	Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)		Cornerdistance (m)	
	Centerballast (t)	max. Cornerload (kN)*	Centerballast (t)	max. Cornerload (kN)*	Centerballast (t)	max. Cornerload (kN)*	Centerballast (t)	max. Cornerload (kN)*

\* New units for forces and moments to international law: 10 kNm ≈ 1 tfm      10 kN ≈ 1 tf

# Wolffkran WK 262 SL WK 280 EC



## Centerballast and Cornerloads DIN 15 019

for travelling cranes without climber on undercarriages

Horizontal forces H and torquemoments to be taken from table "Foundation loads"

UW 480, UW 280.2, UW 260.2 or for KRE

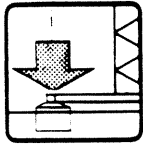
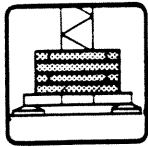
Height under hook (m)	30 m - jib						35 m - jib						40 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0
	Centerballast (t)			max. Cornerload (kN)			Centerballast (t)			max. Cornerload (kN)			Centerballast (t)			max. Cornerload (kN)		
15.0	22.5	52.5	77.5	435	575	643	22.5	50.0	72.5	437	573	634	22.5	47.5	75.0	447	578	651
19.5	22.5	55.0	80.0	447	595	663	22.5	52.5	75.0	449	593	655	22.5	47.5	75.0	459	593	666
24.0	25.0	57.5	85.0	465	616	690	22.5	55.0	80.0	462	614	682	22.5	50.0	75.0	472	614	682
28.5	25.0	60.0	87.5	478	638	712	22.5	57.5	82.5	476	636	704	22.5	52.5	80.0	486	636	710
33.0	27.5	62.5	90.0	497	661	735	25.0	60.0	87.5	495	659	733	22.5	55.0	82.5	500	659	733
37.5	27.5	65.0		512	685		25.0	62.5		510	683		22.5	57.5		515	683	
42.0	30.0	67.5		534	711		27.5	65.0		531	709		22.5	60.0		532	709	
46.5	30.0	70.0		553	740		27.5	67.5		551	738		25.0	62.5		556	739	
51.0	32.5			579			27.5			572			25.0			577		
55.5	37.5			610			35.0			603			32.5			614		
60.0	45.0			648			42.5			642			40.0			669		
64.5	52.5			716			47.5			737			45.0			760		
69.0	60.0			811			57.5			839			55.0			863		
73.5																		

Height under hook (m)	45 m - jib						50 m - jib						55 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0	8.0	6.0	5.0
	Centerballast (t)			max. Cornerload (kN)			Centerballast (t)			max. Cornerload (kN)			Centerballast (t)			max. Cornerload (kN)		
15.0	22.5	47.5	72.5	443	560	636	22.5	47.5	72.5	436	560	628	22.5	47.5	72.5	437	557	626
19.5	22.5	47.5	72.5	455	583	651	22.5	47.5	72.5	448	575	643	22.5	47.5	72.5	449	573	641
24.0	22.5	47.5	72.5	468	599	667	22.5	47.5	72.5	461	591	659	22.5	47.5	72.5	462	588	657
28.5	22.5	47.5	72.5	482	615	684	22.5	47.5	72.5	475	608	676	22.5	47.5	72.5	476	605	674
33.0	22.5	47.5	75.0	496	633	707	22.5	47.5	72.5	489	625	694	22.5	47.5	72.5	490	623	692
37.5	22.5	50.0	77.5	511	658	732	22.5	47.5	75.0	504	645	719	22.5	47.5	72.5	505	642	711
42.0	22.5	52.5		527	684		22.5	50.0		521	671		22.5	47.5		522	663	
46.5	22.5	55.0		547	713		22.5	50.0		540	695		22.5	47.5		541	687	
51.0	22.5			567			22.5			561			22.5			561		
55.5	25.0			594			22.5			594			22.5			622		
60.0	32.5			668			30.0			684			25.0			703		
64.5	42.5			766			37.5			781			37.5			809		
69.0	50.0			865			52.5			893			52.5			922		
73.5																		

\*New units for forces and moments to international law: 10 kNm ≈ 1 tfm

10 kN ≈ 1 tf

# Wolffkran WK 262 SL WK 280 EC



## Centerballast and Cornerloads DIN 15 019

for travelling cranes without climber on undercarriages

Horizontal forces H and torquemoments to be taken from table "Foundation loads"

UW 480, UW 280.2, UW 260.2 or for KRE

Height under hook (m)	60 m - jib						65 m - jib						70 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15,0	22,5	47,5	72,5	445	564	632	22,5	47,5	72,5	448	565	633	25,0	50,0	75,0	453	566	635
19,5	22,5	47,5	72,5	457	579	647	22,5	47,5	72,5	460	580	649	25,0	50,0	75,0	465	581	650
24,0	22,5	47,5	72,5	470	595	663	22,5	47,5	72,5	473	595	665	25,0	50,0	75,0	478	596	666
28,5	22,5	47,5	72,5	483	611	680	22,5	47,5	72,5	486	612	682	25,0	50,0	75,0	491	613	683
33,0	22,5	47,5	72,5	497	629	698	22,5	47,5	72,5	500	630	699	25,0	50,0	75,0	505	631	700
37,5	22,5	47,5	72,5	513	648	718	22,5	47,5	72,5	516	649	719	25,0	50,0	75,0	520	650	720
42,0	22,5	47,5		529	669		22,5	47,5		532	670		25,0	50,0		537	670	
46,5	22,5	47,5		548	693		22,5	47,5		552	698		25,0	52,5		576	738	
51,0	22,5			588			22,5			611			25,0			641		
55,5	22,5			659			22,5			682			25,0			712		
60,0	25,0			741			25,0			764			25,0			790		
64,5	37,5			848			40,0			877			42,5			907		
69,0	55,0			965			62,5			1003			62,5			1030		
73,5																		

Height under hook (m)	m - jib		m - jib		m - jib	
	Gauge (m)	Gauge (m)	Gauge (m)	Gauge (m)	Gauge (m)	Gauge (m)
	Centerballast (t)	max. Cornerload (kN)*	Centerballast (t)	max. Cornerload (kN)*	Centerballast (t)	max. Cornerload (kN)*

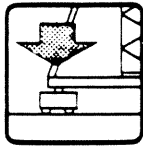
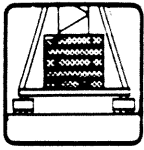
\* New units for forces and moments to international law: 10 kNm ≈ 1 tfm      10 kN ≈ 1 tf



# Wolffkran WK 262 SL WK 280 EC

XIV 11140E

Page 1



## Centerballast and Cornerloads DIN 15 019

for travelling cranes without climber on undercarriages

Horizontal forces H and torquemoments to be taken from table "Foundation loads"

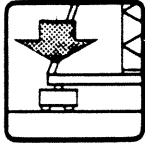
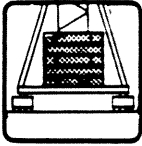
UW 280.1, UW 460, UW 260.3 or for KRE

Height under hook (m)	30 m - jib						35 m - jib						40 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15.0	22.5	35.0	52.5	435	468	575	22.5	32.5	50,0	437	465	573	22.5	32,5	47,5	447	475	578
19.5	22.5	35.0	55.0	447	480	595	22.5	32,5	52,5	449	477	593	22,5	32,5	47,5	459	488	593
24.0	25.0	37,5	57,5	465	498	616	22,5	35,0	55,0	462	496	614	22,5	32,5	50,0	472	500	614
28.5	25.0	40,0	60,0	478	517	638	22,5	37,5	57,5	476	515	636	22,5	32,5	52,5	486	514	636
33.0	27,5	42,5	62,5	497	537	661	25,0	37,5	60,0	495	529	659	22,5	35,0	55,0	500	534	659
37.5	27,5	45,0	65,0	512	557	685	25,0	40,0	62,5	510	550	683	22,5	37,5	57,5	515	555	683
42.0	30,0	45,0	67,5	534	574	711	27,5	42,5	65,0	531	572	709	22,5	40,0	60,0	532	577	709
46.5	30,0	47,5	70,0	553	599	740	27,5	45,0	67,5	551	597	738	25,0	40,0	62,5	556	596	739
51.0	32,5	47,5	72,5	579	619	770	27,5	45,0	67,5	572	617	763	25,0	42,5	67,5	577	622	774
55.5	37,5	55,0	75,0	610	657	801	35,0	50,0	72,5	603	649	800	32,5	47,5	70,0	614	655	806
60.0	45,0	62,5	87,5	648	695	855	42,5	60,0	82,5	642	688	858	40,0	75,0		669		877
64.5																		

Height under hook (m)	45 m - jib						50 m - jib						55 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15.0	22.5	32.5	47.5	443	470	560	22.5	32.5	47.5	436	464	560	22.5	32.5	47.5	437	465	557
19.5	22.5	32.5	47.5	455	483	583	22.5	32.5	47.5	448	477	575	22.5	32.5	47.5	449	478	573
24.0	22.5	32.5	47.5	468	496	599	22.5	32.5	47.5	461	490	591	22.5	32.5	47.5	462	491	588
28.5	22.5	32.5	47.5	482	509	615	22.5	32.5	47.5	475	503	607	22.5	32.5	47.5	476	504	605
33.0	22.5	32.5	47.5	496	523	633	22.5	32.5	47.5	489	517	625	22.5	32.5	47.5	490	518	623
37.5	22.5	32.5	50.0	511	539	658	22.5	32.5	47.5	504	533	645	22.5	32.5	47.5	505	534	642
42.0	22.5	32.5	52.5	527	555	684	22.5	32.5	50.0	521	550	671	22.5	32.5	47.5	522	551	663
46.5	22.5	32.5	55.0	547	575	713	22.5	32.5	50.0	540	569	695	22.5	32.5	47.5	541	570	687
51.0	22.5	35.0	57.5	567	601	744	22.5	32.5	55.0	561	590	732	22.5	37.5	50.0	561	606	718
55.5	25.0	40.0	62.5	594	634	781	22.5	37.5	60.0	594	633	794	22.5	37.5	52.5	622	664	812
60.0	32.5	50.0	72.5	668	708	883	30.0	47.5	70.0	684	728	911	25.0	40.0	65.0	703	741	935
64.5																		

\* New units for forces and moments to international law: 10 kNm ≈ 1 tfm

10 kN ≈ 1 tf



## Centerballast and Cornerloads DIN 15 019

for travelling cranes without climber on undercarriages

Horizontal forces H and torquemoments to be taken from table "Foundation loads"

**UW 280.1, UW 460, UW 260.3 or for KRE**

Height under hook (m)	60 m - jib						65 m - jib						70 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0	8,0	7,0	6,0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15,0	22,5	32,5	47,5	445	473	564	22,5	32,5	47,5	448	476	565	25,0	35,0	50,0	453	482	566
19,5	22,5	32,5	47,5	457	485	579	22,5	32,5	47,5	460	489	580	25,0	35,0	50,0	465	493	581
24,0	22,5	32,5	47,5	470	498	595	22,5	32,5	47,5	473	502	595	25,0	35,0	50,0	478	506	596
28,5	22,5	32,5	47,5	483	512	611	22,5	32,5	47,5	486	515	612	25,0	35,0	50,0	491	520	613
33,0	22,5	32,5	47,5	497	526	629	22,5	32,5	47,5	500	529	630	25,0	35,0	50,0	505	534	631
37,5	22,5	32,5	47,5	513	542	648	22,5	32,5	47,5	516	545	649	25,0	35,0	50,0	520	550	650
42,0	22,5	32,5	47,5	529	558	669	22,5	32,5	47,5	532	561	670	25,0	35,0	50,0	537	566	670
46,5	22,5	32,5	47,5	548	578	693	22,5	32,5	47,5	552	581	698	25,0	35,0	52,5	576	606	738
51,0	22,5	32,5	52,5	588	617	765	22,5	37,5	52,5	611	654	794	25,0	40,0	57,5	641	685	834
55,5	22,5	32,5	55,0	659	688	864	22,5	37,5	55,0	682	725	893	25,0	40,0	60,0	712	756	933
60,0	25,0	42,5	65,0	741	784	983	25,0	70,0		764		1022	25,0	70,0		790		1054
64,5																		

Height under hook (m)	m - jib		m - jib		m - jib	
	Gauge (m)		Gauge (m)		Gauge (m)	
	Centerballast (t)	max. Cornerload (kN)*	Centerballast (t)	max. Cornerload (kN)*	Centerballast (t)	max. Cornerload (kN)*

\* New units for forces and moments to international law: 10 kNm ≈ 1 tfm      10 kN ≈ 1 tf