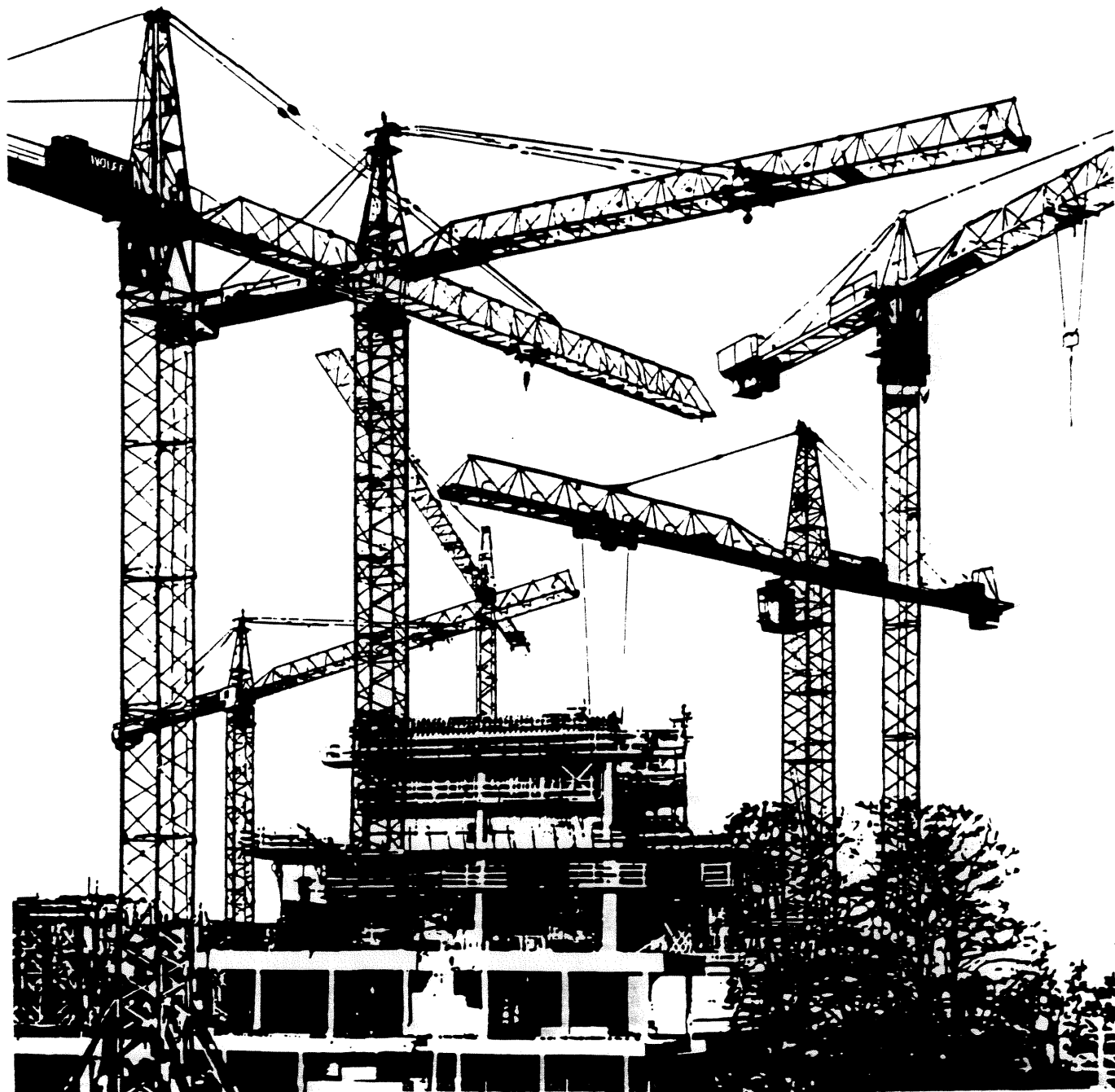
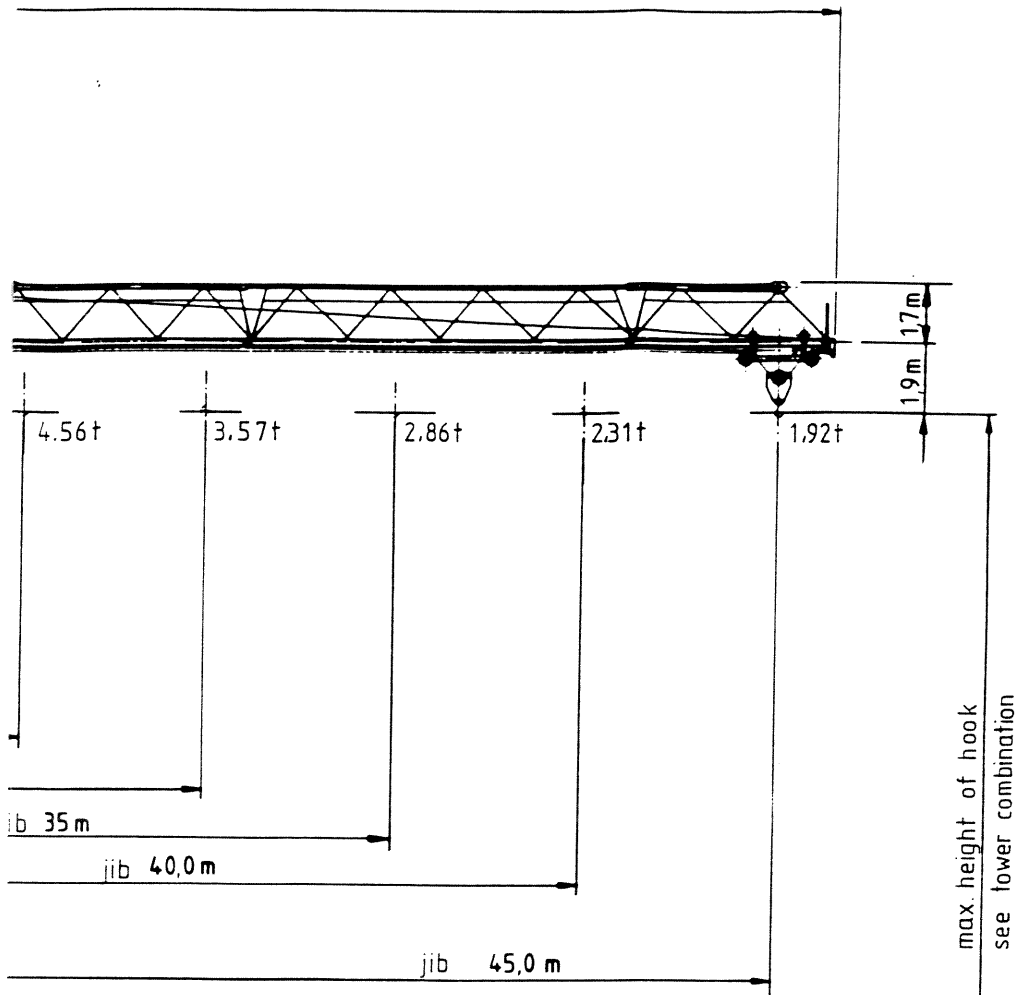


Technical documentation





kind of crane : tower crane with horizontal jib, top - slewing, self climbing
 installation : stationary or travelling
 calculation base : FEM
 max. load moment : 1182 kNm

Wolffkran100 EC

FEM

M 1:200

crossframes upon request
 hook height is reduced by 0,3 m

		1:200
	1980	
	3 10	
		WK 92 SL general view
		XIV 10 412 E

MAN WOLFFKRAN GMBH

Wolffkran 100 EC

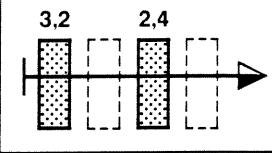
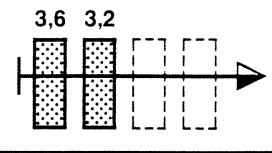
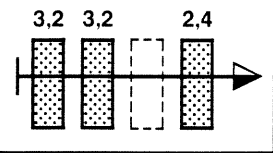
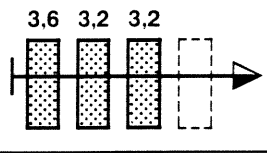
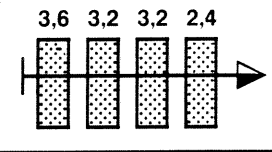
XIV 10311E

TECHNICAL DATA

CAPACITY - RADIUS

		Radius [m]	2,6-	20	25	30	35	40	45		
Jib length [m]	25	2,6-19,7	6,0	5,93	4,56						Capacity [t]
	30	2,6-19,3		5,81	4,47	3,57					
	35	2,6-18,8		5,66	4,36	3,48	2,86				
	40	2,6-18,3		5,50	4,22	3,38	2,76	2,31			
	45	2,6-18,0		5,43	4,16	3,33	2,73	2,28	1,92		

ARRANGEMENT OF COUNTERWEIGHTS

Jib [m]	25	30	35	40
to tower				
Tot. weight [t]	5,6	6,8	8,8	10,0
Jib [m]	45			
to tower				
Tot. weight [t]	12,4			

OPERATIONAL SPEEDS - MOTOROUTPUTS

Drive [Typ]	Operational speeds [Motion]		Reev-ing [falls]	max. Hook-travel [m]	Output [kW]	Total Output [kW]
		[m/min]				
Hw 6373	Hoisting 1,5 t	80	2	145	37	46,6
	up to 3,0 t	50				
	6,0 t	28				
Tw 50 FG	Travers. 3,0 t up to 6,0 t	80/40/20 40/20			3,9	
Dw - FG	Slewing	0,8 min ⁻¹			5,7	
Fw	Cranetravel	25			11-22	57,6-68,6

Wolffkran 100 EC

XIV12887E
FEM

TECHNICAL DATA

CAPACITY - RADIUS

		Radius [m]	2,6-	20	25	30	35	40	45		
Jib length [m]	25	2,6-19,7	6,0	5,93	4,56						Capacity [t]
	30	2,6-19,3		5,81	4,47	3,57					
	35	2,6-18,8		5,66	4,36	3,48	2,86				
	40	2,6-18,3		5,50	4,22	3,38	2,76	2,31			
	45	2,6-18,0		5,43	4,16	3,33	2,73	2,28	1,92		

ARRANGEMENT OF COUNTERWEIGHTS

Jib [m]	25	30	35	40
to tower				
Tot. weight [t]	5,6	6,8	8,8	10,0
Jib [m]	45			
to tower				
Tot. weight [t]	12,4			

OPERATIONAL SPEEDS - MOTOROUTPUTS

Drive [Typ]	Operational speeds [Motion]	[m/min]	Reev- ing [falls]	max. Hook- travel [m]	Output [kW]	Total Output [kW]
Hw 6222	Hoisting 1,5 t	60	2	145	22	31,6
	6,0 t	18				
Tw 50 FG	Travers. 3,0 t up to 6,0 t	80/20 40/20			3,9	
Dw - FG	Slewing	0,8 min ⁻¹			5,7	
Fw	Cranetravel	25			11-22	42,6-53,6

28.11.85 Sch... Jg.

Wolffkran 92 SL WK 100 EC XIV 10346

Drehteil:

Hakenhöhe
Auslegeranlenkpunkthöhe
Gesamthöhe

A = 1,5 m
B = 3,4 m
C = 9,9 m

Slewing part:

Height under hook
Height of jib pivot point
Total height

A = 1,5 m
B = 3,4 m
C = 9,9 m

Partie tournante

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

A = 1,5 m
B = 3,4 m
C = 9,9 m

		1	2	3	4	5	6
Turnmenteile lower elements, Éléments de tour	Hakenhöhe (m) Height of hook (m) Hauteur sous-crochet (m)						
1	6.0	UV 15	UV 15	UV 15	UV 15		
2	10.5	UV 15	UV 15	UV 15	UV 15		
3	15.0	UV 15	UV 15	UV 15	UV 15		
4	19.5	UV 15	UV 15	UV 15	UV 15		
5	24.0	UV 15	UV 15	UV 15	UV 15		
6	28.5	UV 15	UV 15	UV 15	UV 15		
7	33.0	UV 15	UV 15	UV 15	UV 15		
8	37.5	UV 15	UV 15	UV 15	UV 15		
9	42.0	UV 15	UV 15	UV 15	UV 15		
10	46.5	UV 15	UV 15	UV 15	UV 15		
11	51.0		UV 20	UV 20	UV 20		
12	55.5		UV 20	TVA 20	TVA 20		
13	60.0		UV 20	TV 20	TV 20		
14	64.5			TV 20	TV 20		
15	69.0			TV 20	TV 20		
16	73.5			TV 20	TV 20		
17	78.0			TV 20	TV 20		
18	82.5				TV 25		

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 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 92 SL WK 100 EC XIV 10531

Drehteil:

Hakenhöhe
Auslegeranlenkpunkthöhe
Gesamthöhe

A = 1.5 m
B = 3.4 m
C = 9.9 m

Slewing part:

Height under hook
Height of jib pivot point
Total height

A = 1.5 m
B = 3.4 m
C = 9.9 m

Partie tournante

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

A = 1.5 m
B = 3.4 m
C = 9.9 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		UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	
2	10.5		UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	
3	15.0		UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	
4	19.5		UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	
5	24.0		UT15/TFS 15	UT15/TFS 15	UT15/UTA 15	UT15/UTA 15	UT15/UTA 15	
6	28.5		UT15/UTA 15	UT15/UTA 15	UT 15	UT 15	UT 15	
7	33.0		UT 15	UT 15	UT 15	UTÜ 15	UTÜ 15	
8	37.5		UTÜ 15	UTÜ 15	UT 20	UT 20	UT 20	
9	42.0	UW 250	UT 20	UT 20	UT 20	UT 20	UT 20	
10	46.5		UT 20	UT 20	TVA 20	TVA 20	TVA 20	
11	51.0			TVA 20	TV 20	TV 20	TV 20	
12	55.5		UW 260.1*		TV 20	TV 20	TV 20	
13	60.0			UW 260.2	TV 20	TV 20	TV 20	
14	64.5				TV 20	TV 20	TV 20	
15	69.0					TV 20	TV 20	
16	73.5				UW 260.3 UW 460 UW 280.1**	TVÜ 20	TVÜ 20	
17	78.0	* für Ausleger 45 m nur bis 46.5 m / with 45 m jib up to 46.5 m only.					UW 280.2 UW 480	
18	82.5	** für Ausleger 40/45 m nur bis 64.5 m / with 40/45 m jib up to 64.5 m only.					UW 280.2 UW 480	

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.

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Wolffkran 92 SL WK 100 EC XIV 10530

Drehteil:

Hakenhöhe
Auslegeranlenkpunkthöhe
Gesamthöhe

A = 1,5 m
B = 3,4 m
C = 9,9 m

Slewing part:

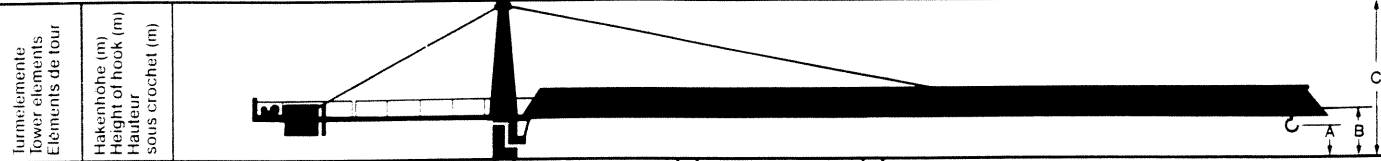
Height under hook
Height of jib pivot point
Total height

Partie tournante

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

A = 1,5 m
B = 3,4 m
C = 9,9 m

1 2 3 4 5 6



1	2	3	4	5	6
1	6.0	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15
2	10.5	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15
3	15.0	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15
4	19.5	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15	UT15/TFS 15
5	24.0	UT15/TFS 15	UT15/TFS 15	UT15/UTA 15	UT15/UTA 15
6	28.5	UT15/UTA 15	UT15/UTA 15	UT 15	UT 15
7	33.0	UT 15	UT 15	UTÜ 15	UTÜ 15
8	37.5	UT 15	UTÜ 15	UT 20	UT 20
9	42.0		UT 20	UT 20	TVA 20
10	46.5		UT 20	TVA 20	TV 20
11	51.0			TV 20	TV 20
12	55.5			TV 20	TV 20
13	60.0			TV 20	TV 20
14	64.5			TV 20	TV 20
15	69.0			TV 20	TV 20
16	73.5			TV 20	TV 20
17	78.0			TV 20	TVÜ 20
18	82.5				TV 25

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.

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Wolffkran 92 SL WK 100 EC XIV 10347

Drehteil:

Hakenhöhe
Auslegeranlenkpunkthöhe
Gesamthöhe

A = 1,5 m
B = 3,4 m
C = 9,9 m

Slewing part:






Height under hook
Height of jib pivot point
Total height

A = 1,5 m
B = 3,4 m
C = 9,9 m

Partie tournante

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

A = 1,5 m
B = 3,4 m
C = 9,9 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		UV 15	UV 15	UV 15	UV 15	UV 15
2	10.5		UV 15	UV 15	UV 15	UV 15	UV 15
3	15.0		UV 15	UV 15	UV 15	UV 15	UV 15
4	19.5		UV 15	UV 15	UV 15	UV 15	UV 15
5	24.0		UV 15	UV 15	UV 15	UV 15	UV 15
6	28.5		UV 15	UV 15	UV 15	UV 15	UV 15
7	33.0		UV 15	UV 15	UV 15	UV 15	UV 15
8	37.5		UV 15	UV 15	UV 15	UV 15	UV 15
9	42.0	UW 250	UV 15	UV 15	UV 15	UV 15	UV 15
10	46.5		UVÜ 15	UVÜ 15	UVÜ 15	UVÜ 15	UVÜ 15
11	51.0			TVA 20	UV 20	UV 20	UV 20
12	55.5		UW 260.1*		UV 20	UV 20	TVA 20
13	60.0			UW 260.2	TVA 20	TV 20	TV 20
14	64.5				TV 20	TV 20	TV 20
15	69.0					TV 20	TV 20
16	73.5				UW 260.3 UW 460 UW 280.1**	TVU 20	TVU 20
17	78.0						UW 280.2 UW 480
18	82.5						UW 280.2 UW 480

Die hier gezeigten Turmkombinationen stellen Empfehlungen für eine kostengünstige Kранаufstellung 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.

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Hoisting rope: design according to DIN 15 020
kind of operation TWG 1 A_m

rope \varnothing 16 mm, twistfree, impregnated

minimum breaking strength = 130 kN

Wolffkran rope: minimum breaking strength = 168.7 kN
 calculated breaking strength = 216.7 kN
 rated tensile strength = 1770 N/mm²

basic equipment:

rope length	1 x 159 m	42 m height under hook 45 m - 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 18m with rope in 4 falls.

traversing ropes: design according to DIN 15 020
kind of operation TWG 1 A_m

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/mm²

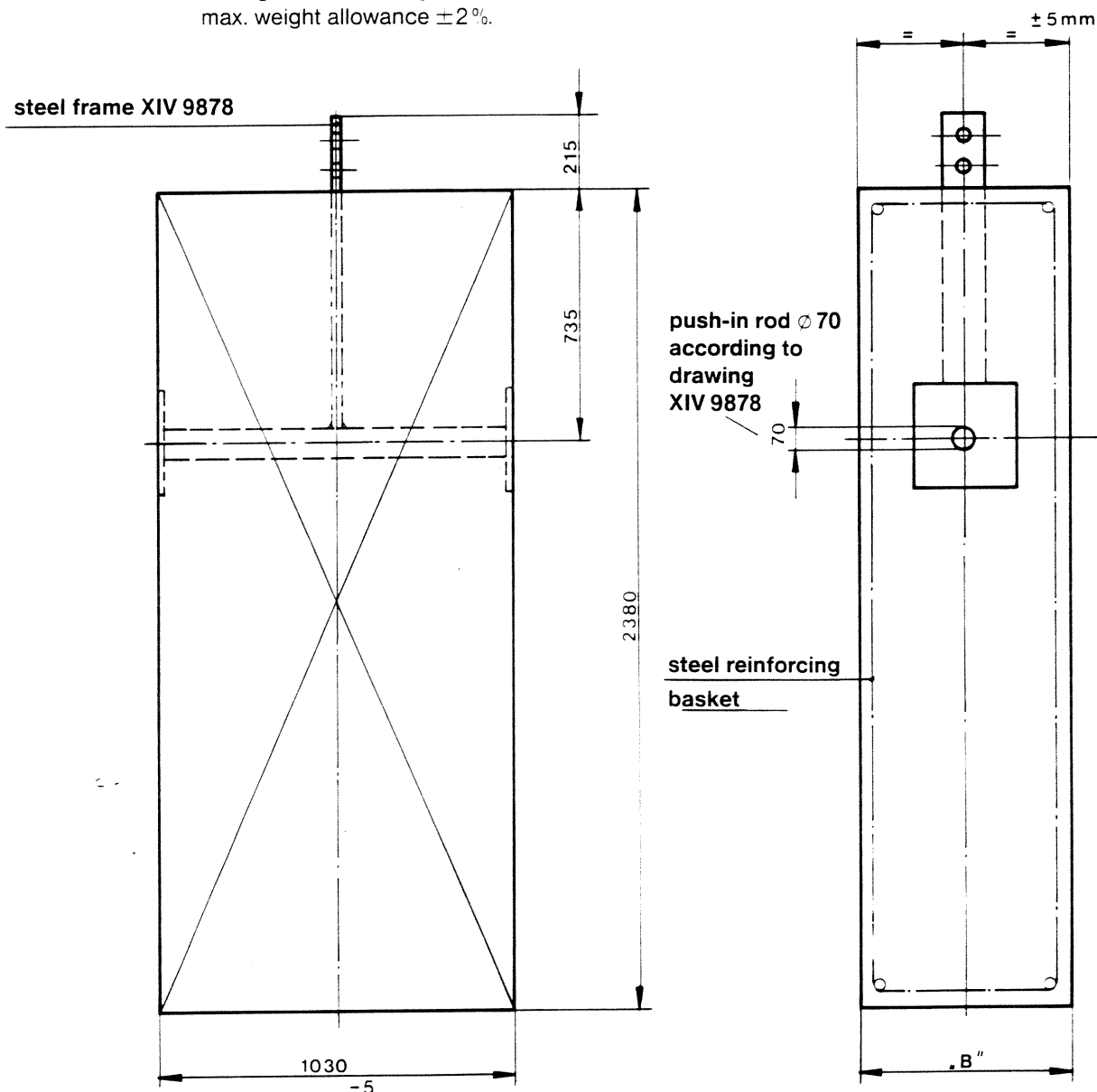
basic equipment:

rope length	1 x 55 m	45 m - jib
	1 x 90 m	

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 $\pm 2\%$.

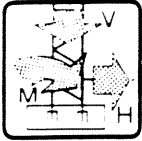


Nr.	Weight		Volume m ³	Width "B" mm
		t		
1	3.6	1.5	610	
2	3.2	1.35	550	
3	2.4	0.98	400	

Quantity and arrangement of the counterweights
see technical data

Wolffkran WK 92 SL

WK 100 EC



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 429 kNm

free standing height under hook (m)	Crane in service (for loadcase 1 of DIN 1054) torquemoment: 90 kNm			Crane out of service (for loadcase 2 of DIN 1054) torquemoment: 0 kNm		
	M (kNm)*	H (kN)*	V (kN)*	M (kNm)*	H (kN)*	V (kN)*
15,0	1112	35	453	717**	17	212
19,5	1242	36	472	769**	18	225
24,0	1382	37	491	826**	19	237
28,5	1531	38	510	1077	56	402
33,0	1693	39	529	1306	60	419
37,5	1866	40	547	1674	65	436
42,0	2055	41	566	2023	69	453
46,5	2263	42	585	2333	74	470
51,0	2434	43	608	2703	79	491
55,5	2640	45	628	3130	84	509
60,0	2860	46	648	3598	89	527
64,5	3040	48	701	4050	99	576
69,0	3273	50	732	4592	106	604
73,5	3524	52	763	5189	113	632
78,0	3793	53	794	5851	120	661
82,5	4023	56	834	6470	128	696

*Units for forces and moments to international law: 10 kNm \approx 1 t \cdot m

10 kN \approx 1 t \ddot{r}

** Moments during crane erection

M = Moment

H = Horizontal force

V = Vertical load

Wolffkran WK 100 EC

XIV 10047 E

Colli-List

Pos.	Quantity	Description	Colli	L (m)	W (m)	H (m)	Weight (kg)	Volume (m³)
1	1	tower top, slirping system various bracing parts slewing frame, KDV, slewing drive lower tower top part		9,96	1,84	2,2	6080	40,4
Pos. 1 divided up		tower top, slirping system various bracing parts		6,31	1,29	1,79	1840	14,6
		slewing frame, KDV, slewing drive lower tower top part		4,79	1,84	2,2	4240	19,4
		slewing frame, KDV, slewing drive		1,68	1,84	2,2	1990	6,8
		lower tower top part		3,11	1,67	1,92	2250	10,0
2	1	tower top platform		0,95	0,95	1,13	50	1,1
3	1	driver's cabin suspension		1,16	1,83	0,5	165	1,1
4	1	driver's cabin		1,65	1,02	2,16	455	3,7
5	1	counterjib - head		12,18	2,23	0,57	2115	15,5
5.1	1	counterjib - foot		6,79	0,12	0,13	205	0,11
6	1	platform with hoist unit		2,2	3,14	1,54	2750	10,7
7	1	jib part : traversing drive		10,19	1,24	2,04	1600	25,8
8	1	jib part : traversing rope pulley		10,21	1,23	1,9	1180	23,9
9	1	jib part :		10,23	1,23	1,78	1190	22,4
10	1	jib part :		10,24	1,23	1,73	985	21,8
11	1	jib part :		5,18	1,23	1,77	605	11,3
12	1	rope swivel traverse traversing rope pulley		1,1	1,14	0,45	110	0,6
13	1	bracing parts		5,98	0,18	0,46	620	0,5
14	1	trolley, complete		1,58	1,43	0,82	275	1,9
15	1	hook block		0,5	1,04	0,22	350	0,1
16	1	standard handrails		2,6	1,05	1,26	270	3,5
17	1	crate with small parts		1,6	1,25	0,85	330	1,7

Wolffkran 92 SL WK 100 EC XIV 10048 E

Basic erection

For 10.5 m height under hook of the construction crane.

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

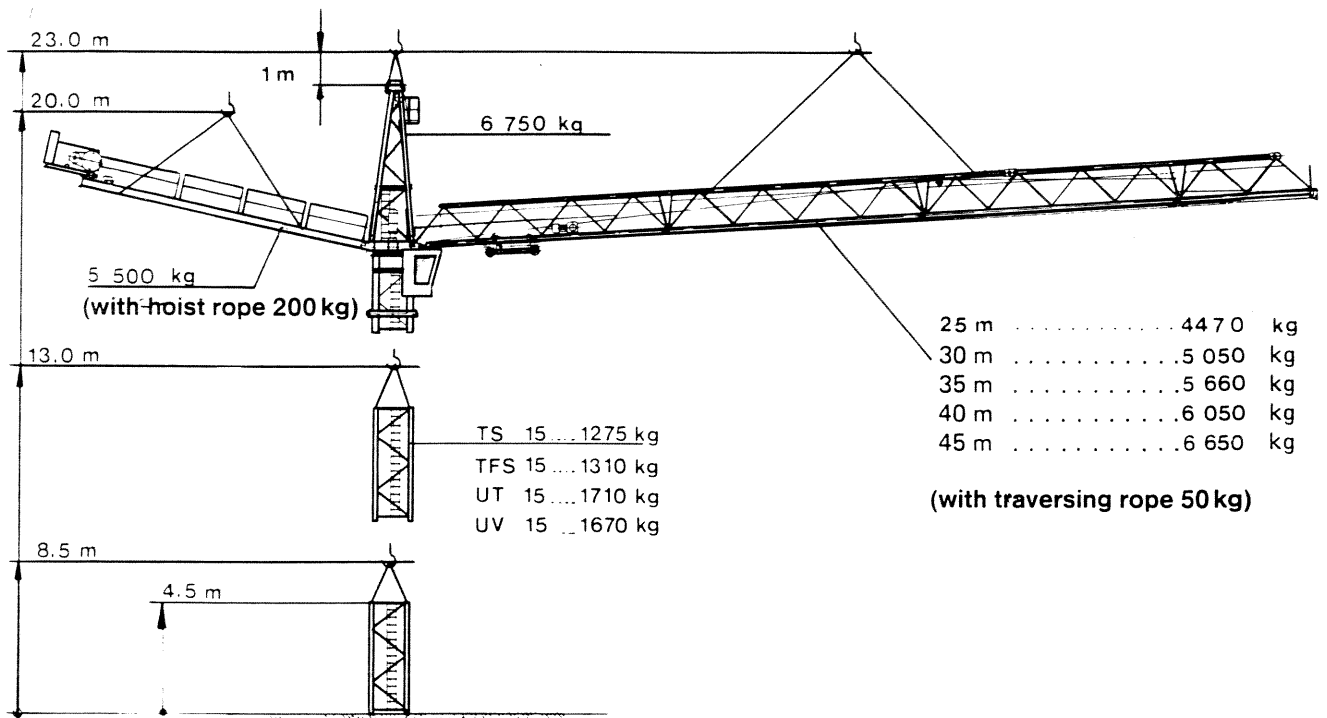
For every additional tower element the necessary height under hook will be increased by 4.5 m.

Attention:

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

Further details colli list.

minimum height under hook



climbable above 10.5 m

Wolffkran 92 SL WK 100 EC XIV 10049 E

Basic erection

For 15.0m height under hook of the construction crane.

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

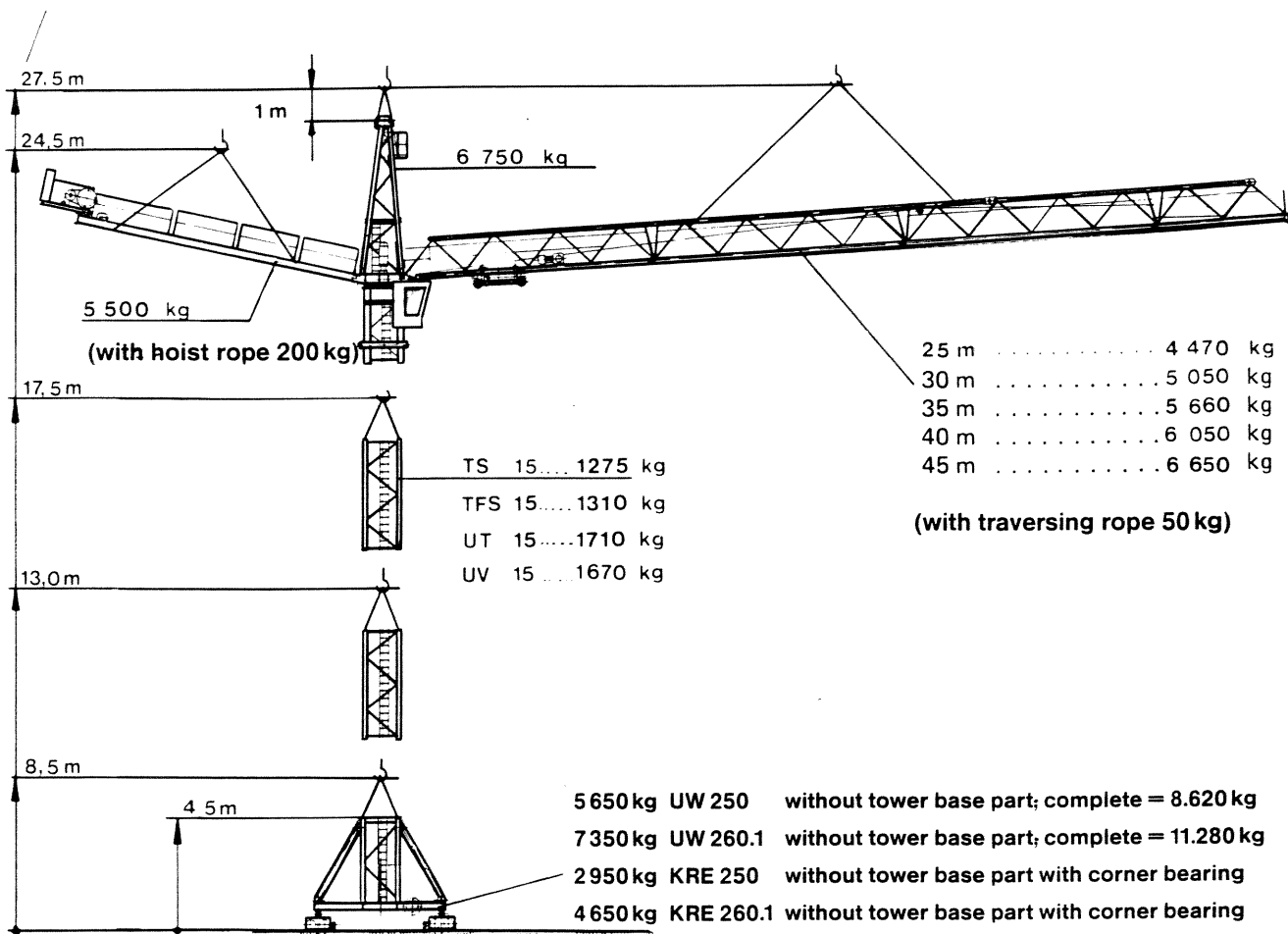
For every additional tower element the necessary height under hook will be increased by 4.5 m.

Attention:

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

Further details colli list.

minimum height under hook



climbable above 15.0 m

Wolffkran WK 100 EC

XIV 11160 E

HT-bolt connections

Pos.	Connection	Bolts				Torque		
		Quantity	Dimensions	DIN	Quality grade	MoS2 Nm	MoS2 ft. lb	
1	ballrace bearing – slewing frame	40	M 20 x 140	931	12.9 sg	560	400	
	extension sleeve – slewing frame	40	∅ 38 x 26					
2	ballrace bearing – lower top part	40	M 20 x 140	931	12.9 sg	560	400	
	extension sleeve – lower top part	40	∅ 38 x 66					
3	exchangable sleeve – lower top part	16	M 30 x 105 Mu	6914	10.9	1650	1190 erection	
4	counter jib – m. platform	2	M 20 x 100 Mu	931	8.8	330	240 erection	
5	hoist unit Hw 6222 or Hw 6373	– motor (Hw 6222)	4	M 16 x 45	931	8.8	170	120
		– intermediate flange	8	M 16 x 45	931	8.8	170	120
		– motor (Hw 6373)	8	M 16 x 70 Mu	931	8.8	170	120
		– gear box	8	M 16 x 80 Mu M 16 x 160	931	8.8	170	120
		– brake	6	M 12 x 130	912	8.8	35	25
		– rope pulley	8	M 20 x 70	6914	10.9	450	330
		– pedestal bearing	2	M 24 x 85 Mu	6914	10.9	800	580

Note:
 DIN 6914 = hexagon head cap bolt
 DIN 931 = hexagon head cap bolt
 DIN 912 = socket head cap bolt
 Mu = with nut
 sg = finally rolled

Attention: For the HT-bolt connections tempered plain washers DIN 6916 with chamfer outside must be used. Spring rings may not be used.

The bolts lubricated with MoS2 are installed.

The bearing surfaces must remain without grease.

22 04 B3 Schenker

Wolffkran 92 SL WK 100 EC

XIV 11154 E

List of pins

Pos.	Connection	Pins		Spring plug		Split pin	
		Quantity	Dimension	Quantity	Dimension	Quantity	Dimension
1	jib joint, top	25 m	2	∅ 80 x 165	2	∅ 6/80	
		30 m	2	∅ 80 x 165	2	∅ 6/80	
		35 m	3	∅ 80 x 165	3	∅ 6/80	
		40 m	3	∅ 80 x 165	3	∅ 6/80	
		45 m	4	∅ 80 x 165	4	∅ 6/80	
		50 m					
		55 m					
		60 m					
	jib joint, bottom	25 m	6	∅ 70 x 143	6	∅ 6/80	
		30 m	6	∅ 70 x 143	6	∅ 6/80	
		35 m	8	∅ 70 x 143	8	∅ 6/80	
		40 m	8	∅ 70 x 143	8	∅ 6/80	
		45 m	10	∅ 70 x 143	10	∅ 6/80	
		50 m					
		55 m					
		60 m					
2	tower top slewing frame	4	∅ 50 x 210			8	∅ 10
3	bracing counter jib	2	∅ 50 x 132			2	∅ 10
		4	∅ 50 x 170			8	∅ 10
4	bracing trolley jib	1	∅ 70 x 240			2	∅ 10
		4	∅ 70 x 180			8	∅ 10
		1	∅ 70 x 260			2	∅ 10
		1	∅ 70 x 222	axle guard		40	x 10
		2	∅ 70 x 237	axle guard		40	x 10
5	lower tower top with sleeve	TV 15	8	∅ 70 x 290	16	∅ 10/--	
		UT 15	8	∅ 60 x 290	16	∅ 10/--	
		TS 15	8	∅ 50 x 220	16	∅ 6/50	
		UV 15	8	∅ 60 x 290	16	∅ 10/--	
6	platform with machinery	2	55/40 x 98			2	∅ 8

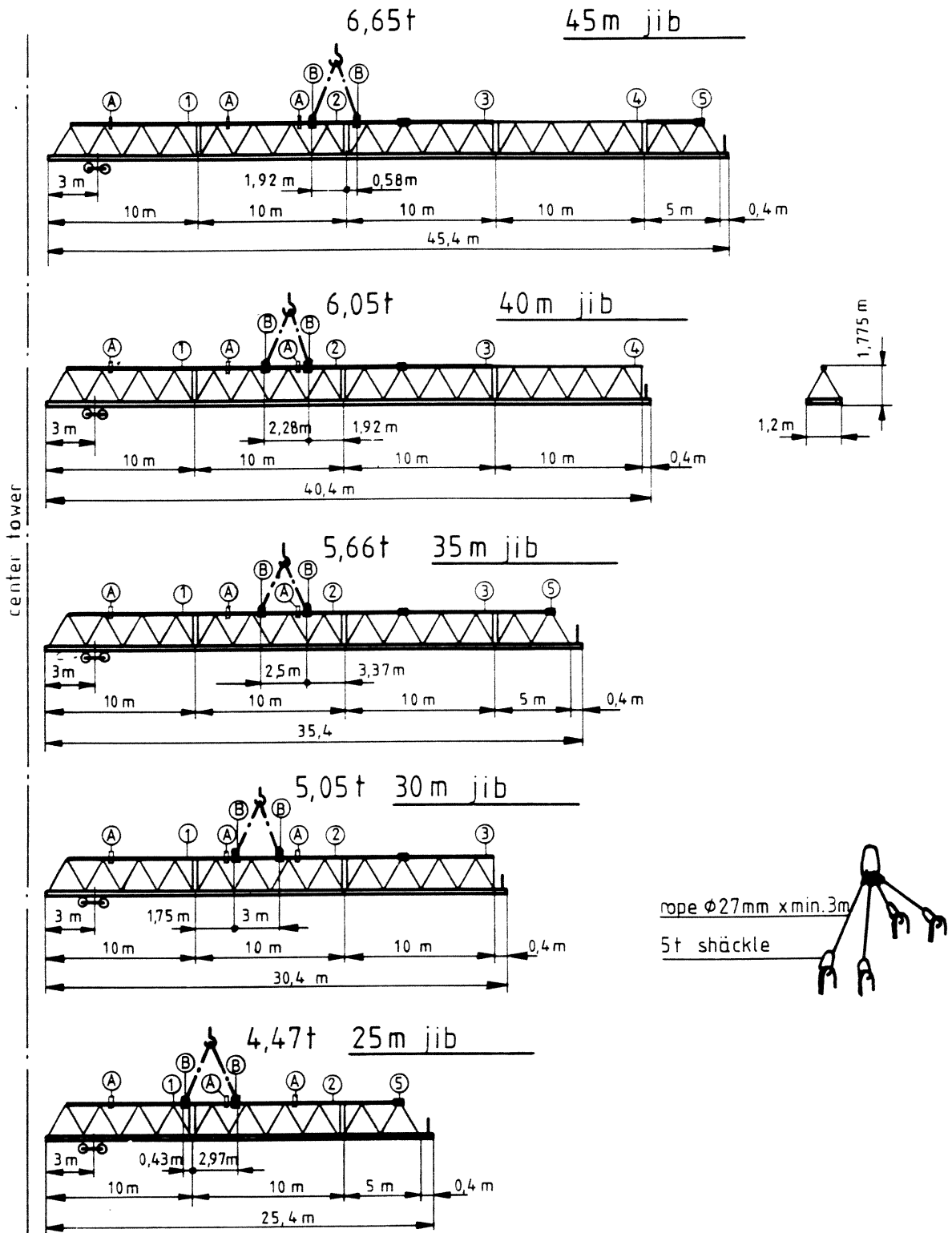
3.4.83 khr. A9.

Wolffkran 92 SL WK 100 EC XIV 10052 E

lifting plan-jib

(A) (B) see XIV 10054 E

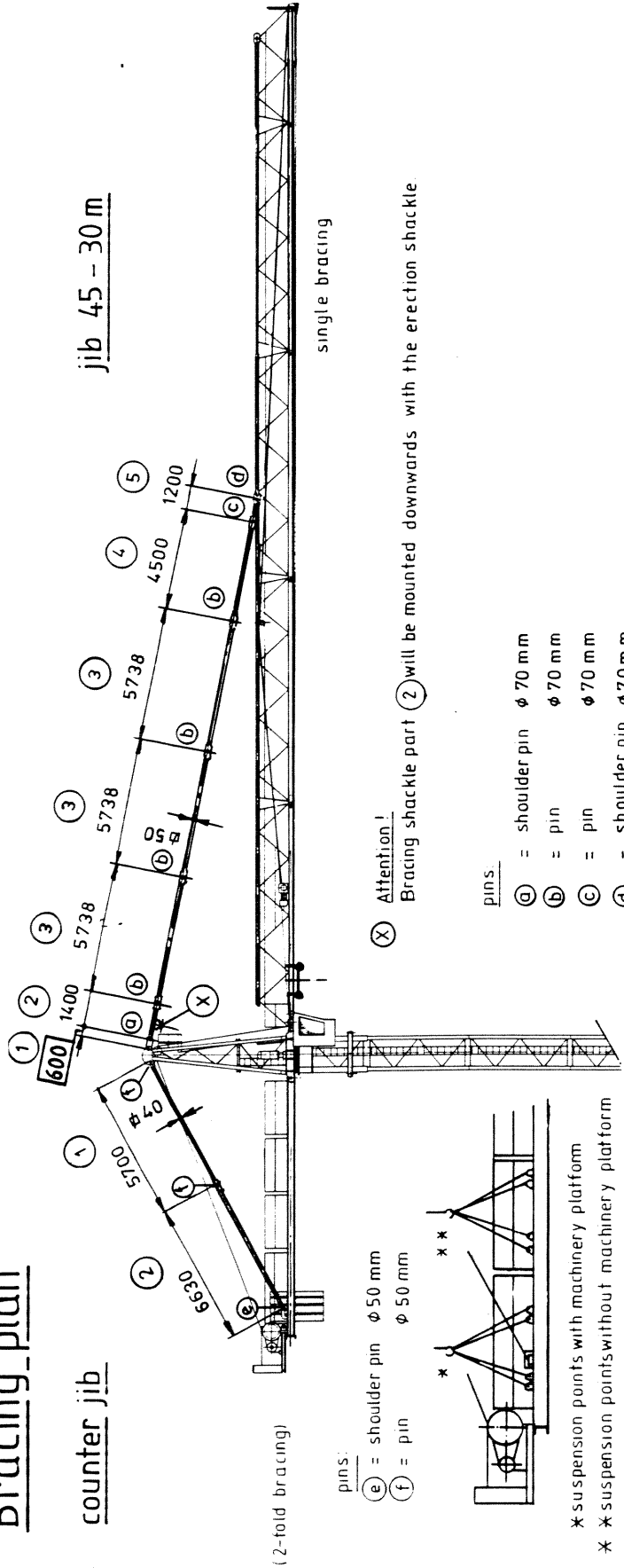
the single parts of the jib are identified with No.1-5 on the upper tension rod



10.9.01. 144. 114. 1. 1.

Bracing plan

counter jib



(X) **Attention!**
Bracing shackle part (2) will be mounted downwards with the erection shackle.

pins:

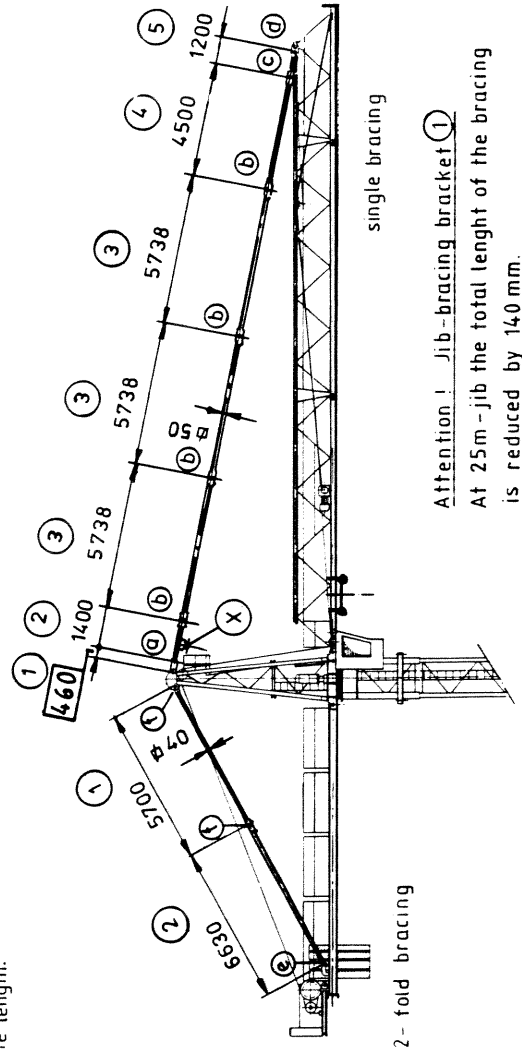
- (a) = shoulder pin ϕ 70 mm
- (b) = pin ϕ 70 mm
- (c) = pin ϕ 70 mm
- (d) = shoulder pin ϕ 70 mm

Further details see list of pins.

- * suspension points with machinery platform
- * suspension points without machinery platform

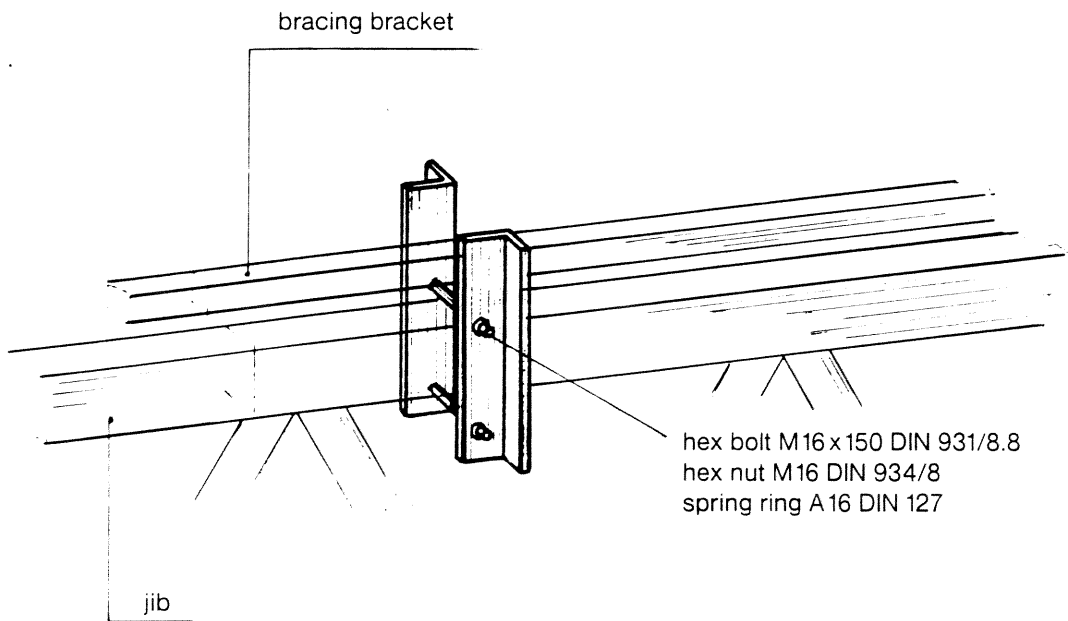
Attention! For suspension use 4 single ropes of the same length.

jib 25m

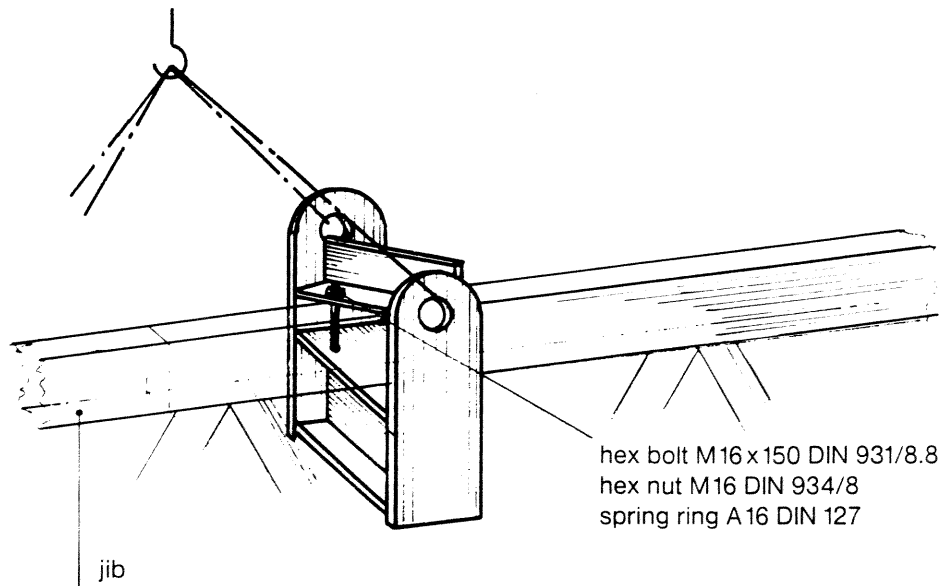


Attention! Jib-bracing bracket (1)
At 25m-jib the total length of the bracing is reduced by 140 mm.
Use hole (460).

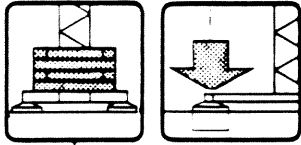
Ⓐ Fixing



Ⓑ Suspension



Wolffkran WK 92 SL WK 100 EC



Centerballast and Cornerloads DIN15019

for stationary crane without climber on crossframe

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

KR 800-6, KR 700-5, KR 600-4

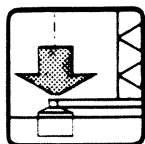
Height under hook (m)	25 m - jib						30 m - jib						35 m - jib					
	Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)		
	6.0	5.0	4.0	6.0	5.0	4.0	6.0	5.0	4.0	6.0	5.0	4.0	6.0	5.0	4.0	6.0	5.0	4.0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15.0	5.0	15.0	30.0	214	258	324	5.0	12.5	27.5	217	256	321	5.0	10.0	25.0	220	252	317
19.5	7.5	17.5	32.5	230	276	344	5.0	15.0	30.0	228	274	342	5.0	10.0	25.0	231	265	332
24.0	7.5	17.5	35.0	242	289	365	5.0	15.0	32.5	240	288	363	5.0	12.5	27.5	242	284	354
28.5	10.0	20.0	37.5	260	310	389	7.5	17.5	35.0	259	308	387	5.0	12.5	30.0	256	300	378
33.0	15.0	25.0	42.5	285	336	418	12.5	22.5	37.5	283	335	412	7.5	17.5	35.0	285	341	428
37.5	20.0	32.5		327	392		17.5	30.0		339	407		15.0	27.5		351	421	
42.0	25.0			391			25.0			408			25.0			425		

Height under hook (m)	40 m - jib						45 m - jib						m - jib					
	Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)		
	6.0	5.0	4.0	6.0	5.0	4.0	6.0	5.0	4.0	6.0	5.0	4.0	6.0	5.0	4.0			
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15.0	5.0	10.0	22.5	223	255	314	7.5	15.0	30.0	236	274	338						
19.5	5.0	10.0	25.0	234	268	335	7.5	15.0	30.0	247	286	353						
24.0	5.0	10.0	25.0	246	282	352	7.5	15.0	30.0	258	300	370						
28.5	5.0	12.5	27.5	259	303	376	7.5	15.0	30.0	273	320	398						
33.0	5.0	17.5	32.5	299	362	450	7.5	17.5		322	383							
37.5	15.0	27.5		370	443		15.0			389								
42.0	25.0			444			25.0			464								

* Units for forces and moments to international law: 10 kNm ≈ 1 t·fm

10 kN ≈ 1 tf

Wolffkran WK 92 SL WK 100 EC



Centerballast and Cornerloads DIN 15 019

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, KR 800-5

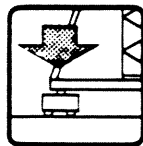
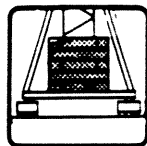
Height under hook (m)	25 m - jib						30 m - jib						35 m - jib					
	Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)		
	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15.0	-	5,0	15,0	189	214	258	-	5,0	12,5	192	217	256	-	5,0	10,0	196	220	252
19.5	-	7,5	17,5	197	230	276	-	5,0	15,0	201	228	274	-	5,0	10,0	205	231	265
24.0	-	7,5	17,5	206	242	289	-	5,0	15,0	210	240	288	-	5,0	12,5	214	242	284
28.5	-	10,0	20,0	217	260	310	-	7,5	17,5	221	259	308	-	5,0	12,5	225	256	300
33.0	-	15,0	25,0	228	285	336	-	12,5	22,5	232	283	335	-	7,5	17,5	238	285	341
37.5	-	20,0	32,5	249	327	392	-	17,5	30,0	263	339	407	-	15,0	27,5	276	351	421
42.0	2,5	25,0	40,0	295	391	471	-	25,0	37,5	305	408	487	-	25,0	37,5	319	425	506
46.5	7,5	35,0	50,0	350	468	559	7,5	35,0	52,5	364	486	584	7,5	35,0	52,5	378	503	604
51.0	15,0	45,0		411	549		15,0	47,5	65,0	426	572		15,0	45,0		440	586	
55.5	22,5	57,5		478	641		25,0	57,5		498	660		22,5	60,0		508	688	
60.0	35,0			557			35,0			573			35,0			588		
64.5	47,5			643			47,5			659			47,5			674		
69.0	57,5			730			60,0			750			60,0			766		
73.5	70,0			826			72,5			847			72,5			863		
78.0	87,5			935			87,5			952			87,5			968		
82.5																		

Height under hook (m)	40 m - jib						45 m - jib						m - jib					
	Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (m)			Cornerdistance (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	-	5,0	10,0	200	223	255	-	7,5	15,0	207	236	274						
19.5	-	5,0	10,0	208	234	268	-	7,5	15,0	216	247	286						
24.0	-	5,0	10,0	218	246	282	-	7,5	15,0	225	258	300						
28.5	-	5,0	12,5	229	259	303	-	7,5	15,0	236	273	320						
33.0	-	5,0	17,5	252	299	362	-	7,5	17,5	267	322	383						
37.5	-	15,0	27,5	291	370	443	-	15,0	27,5	306	389	465						
42.0	-	25,0	40,0	334	444	533	-	25,0	40,0	349	464	555						
46.5	7,5	37,5	55,0	393	527	631	7,5	35,0		410	543							
51.0	17,5	47,5		460	610		15,0	47,5		473	630							
55.5	25,0	60,0		528	703		22,5			541								
60.0	35,0			604			35,0			621								
64.5	47,5			690			47,5			708								
69.0	60,0			783			60,0			801								
73.5	72,5			880			72,5			898								
78.0																		
82.5																		

*Units for forces and moments to international law: 10 kNm ≈ 1 tfm

10 kN ≈ 1 tf

Wolffkran WK92 SL WK 100 EC XIV 10120 E



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 260.1 or for KRE

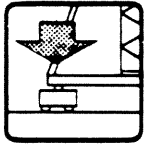
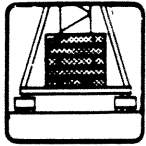
Height under hook (m)	25 m-jib				30 m-jib				35 m-jib				40 m-jib			
	Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)	
	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0
	Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*	
15.0	5.0	15.0	222	249	5,0	12,5	226	247	5,0	10,0	228	244	5,0	10,0	231	247
19.5	7.5	15.0	239	260	5,0	12,5	237	258	5,0	10,0	239	255	5,0	10,0	242	258
24.0	7.5	17.5	250	277	5,0	15,0	248	275	5,0	10,0	251	267	5,0	10,0	254	270
28.5	10.0	17.5	269	291	5,0	15,0	262	289	5,0	12,5	264	286	5,0	10,0	268	284
33.0	15.0	25.0	293	321	10,0	20,0	287	314	7,5	17,5	294	320	5,0	15,0	307	333
37.5	20.0	32.5	335	369	17,5	27,5	348	375	15,0	25,0	360	387	15,0	27,5	378	411
42.0	25.0	40.0	399	438	25,0	37,5	417	451	25,0	37,5	434	468	25,0	40,0	453	492
46.5	32.5	50.0	472	516	35,0	50,0	494	534	35,0	50,0	511	552	37,5	52,5	535	576
51.0	45.0	62.5	557	604	47,5		580		45,0		593		47,5		618	

Height under hook (m)	45 m-jib				m-jib				m-jib				m-jib			
	Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)	
	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0	6,0	5,0
	Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*	
15.0	7.5	15.0	244	266												
19.5	7.5	15.0	255	277												
24.0	7.5	15.0	267	289												
28.5	7.5	15.0	282	304												
33.0	7.5	15.0	330	352												
37.5	15.0	27.5	397	430												
42.0	25.0	40.0	472	511												
46.5	35.0	52.5	551	596												
51.0	47,5		638													

*Units for forces and moments to international law: 10 kNm ≈ 1 tfm

10 kN ≈ 1 tf

Wolffkran WK 92 SL WK 100 EC XIV 10121E



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 260.2, UW 280.2, UW 480 or for KRE

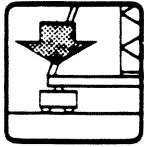
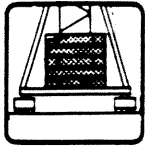
Height under hook (m)	25 m - jib						30 m - jib						35 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0	8,0	6,0	5,0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15,0	-	5,0	15,0	197	222	249	-	5,0	12,5	200	226	247	-	5,0	10,0	204	228	244
19,5	-	7,5	15,0	205	239	260	-	5,0	12,5	209	237	258	-	5,0	10,0	213	239	255
24,0	-	7,5	17,5	215	250	277	-	5,0	15,0	218	248	275	-	5,0	10,0	222	251	267
28,5	-	10,0	17,5	225	269	291	-	5,0	15,0	229	262	289	-	5,0	12,5	233	264	286
33,0	-	15,0	25,0	237	293	321	-	10,0	20,0	241	287	314	-	7,5	17,5	247	294	320
37,5	2,5	20,0	32,5	263	335	369	-	17,5	27,5	272	348	375	-	15,0	25,0	285	360	387
42,0	5,0	25,0	40,0	310	399	438	5,0	25,0	37,5	324	417	451	2,5	25,0	37,5	333	434	468
46,5	10,0	32,5	50,0	364	472	516	12,5	35,0	50,0	383	494	534	10,0	35,0	50,0	392	511	552
51,0	17,5	45,0	62,5	427	557	604	17,5	47,5	67,5	442	580	632	17,5	45,0	65,0	456	593	645
55,5	25,0	57,5	77,5	494	647	700	27,5	57,5	80,0	513	666	724	25,0	57,5	80,0	524	684	743
60,0	37,5	67,5		573	748		37,5	70,0		588	772		37,5			603		
64,5	50,0			659			50,0			674			50,0			690		
69,0	60,0			746			62,5			766			60,0			777		
73,5	72,5			842			75,0			862			72,5			874		
78,0	90,0			951			90,0			967			90,0			984		

Height under hook (m)	40 m - jib						45 m - jib						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	-	5,0	10,0	207	231	247	-	7,5	15,0	215	244	266						
19,5	-	5,0	10,0	216	242	258	-	7,5	15,0	224	255	277						
24,0	-	5,0	10,0	226	254	270	-	7,5	15,0	233	267	289						
28,5	-	5,0	10,0	237	268	284	-	7,5	15,0	244	282	304						
33,0	-	5,0	15,0	260	307	333	-	7,5	15,0	276	330	352						
37,5	-	15,0	27,5	300	378	411	-	15,0	27,5	315	397	430						
42,0	2,5	25,0	40,0	348	453	492	2,5	25,0	40,0	364	472	511						
46,5	12,5	37,5	52,5	412	535	576	10,0	35,0	52,5	424	551	596						
51,0	17,5	47,5	67,5	472	618	670	17,5	47,5	67,5	488	638	690						
55,5	27,5	60,0	82,5	544	709	768	25,0	60,0	82,5	557	730	789						
60,0	37,5			620			37,5			637								
64,5	50,0			706			50,0			724								
69,0	62,5			799			65,0			821								
73,5	75,0			896			75,0			914								
78,0	90,0			1001			90,0			1020								

*Units for forces and moments to international law: 10 kNm ≈ 1 tfm

10 kN ≈ 1 tf

Wolffkran WK 92 SL WK 100 EC XIV 10122 E



Centerballast and Cornerloads DIN15019

for travelling cranes without climber on undercarriages

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

UW 280.1, UW 260.3, UW 460 or for KRE

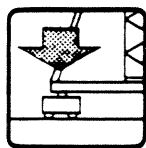
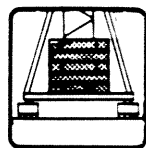
Height under hook (m)	25 m - jib						30 m - jib						35 m - jib					
	Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)			Gauge (m)		
	8.0	7.0	6.0	8.0	7.0	6.0	8.0	7.0	6.0	8.0	7.0	6.0	8.0	7.0	6.0	8.0	7.0	6.0
	Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*			Centerballast (t)			max. Cornerload (kN)*		
15.0	-	-	5.0	197	199	222	-	-	5.0	200	203	226	-	-	5.0	204	206	228
19.5	-	-	7.5	205	208	239	-	-	5.0	210	211	237	-	-	5.0	213	215	239
24.0	-	-	7.5	215	217	250	-	-	5.0	218	221	248	-	-	5.0	222	225	251
28.5	-	-	10.0	225	228	269	-	-	5.0	229	232	262	-	-	5.0	233	236	264
33.0	-	2.5	15.0	237	245	293	-	-	10.0	241	244	287	-	-	7.5	247	250	294
37.5	2.5	7.5	20.0	263	277	335	-	5.0	17.5	272	286	348	-	2.5	15.0	285	294	360
42.0	5.0	12.5	25.0	310	329	399	5.0	10.0	25.0	324	338	417	2.5	10.0	25.0	333	352	434
46.5	10.0	20.0	32.5	364	388	472	12.5	20.0	35.0	383	402	494	10.0	20.0	35.0	392	417	511
51.0	17.5	27.5	45.0	427	452	557	17.5	27.5	47.5	442	467	580	17.5	27.5	45.0	456	481	593
55.5	25.0	37.5	57.5	494	525	647	27.5	37.5	57.5	513	540	666	25.0	37.5	57.5	524	555	684
60.0	37.5	50.0	67.5	573	605	748	37.5	50.0	70.0	588	621	772	37.5	50.0	70.0	603	636	790
64.5	50.0	65.0	85.0	659	697	862	50.0	65.0	85.0	674	713	882	50.0	65.0	85.0	690	728	901
69.0	60.0	77.5	100.0	746	790	979	62.5		102.5	766		1004	60.0		102.5	777		1023
73.5																		

Height under hook (m)	40 m - jib						45 m - jib						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	-	-	5.0	207	210	231	-	-	7.5	215	217	244						
19.5	-	-	5.0	216	219	242	-	-	7.5	224	226	255						
24.0	-	-	5.0	226	228	254	-	-	7.5	233	236	267						
28.5	-	-	5.0	237	239	268	-	-	7.5	244	247	282						
33.0	-	-	5.0	260	264	307	-	-	7.5	276	280	330						
37.5	-	2.5	15.0	300	309	378	-	2.5	15.0	315	325	397						
42.0	2.5	12.5	25.0	348	372	453	2.5	10.0	25.0	364	383	472						
46.5	12.5	20.0	37.5	412	432	535	10.0	20.0	35.0	424	449	551						
51.0	17.5	30.0	47.5	472	502	618	17.5	27.5	47.5	488	514	638						
55.5	27.5	37.5	60.0	544	571	709	25.0	37.5	60.0	557	588	730						
60.0	37.5	52.5	70.0	620	657	811	37.5	52.5	70.0	637	674	822						
64.5	50.0	67.5	87.5	706	750	926	50.0	67.5	87.5	724	767	938						
69.0			105.0			1049			105.0			1061						
73.5																		

*Units for forces and moments to international law: 10 kNm ≈ 1 tfm

10 kN ≈ 1 tf

Wolffkran WK 100EC



Centerballast and Cornerloads DIN 15019

for travelling cranes without climber on undercarriages

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

UW 250 or for KRE

Height under hook (m)	25,0 m - jib				30,0 m - jib				35,0 m - jib				40,0 m - jib			
	Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)		Gauge (m)	
	5.0	4.5	5.0	4.5	5.0	4.5	5.0	4.5	5.0	4.5	5.0	4.5	5.0	4.5	5.0	4.5
	Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)		max. Corner-load (kN)*	
15.0	17.5	22.5	268	281	15.0	20.0	266	279	10.0	17.5	257	276	12.5	15.0	265	273
19.5	17.5	25.0	281	299	15.0	22.5	279	297	12.5	17.5	275	288	12.5	15.0	278	286
24.0	20.0	27.5	299	318	17.5	25.0	297	316	15.0	20.0	294	308	12.5	17.5	292	305
28.5	22.5	27.5	319	333	20.0	25.0	317	331	15.0	22.5	309	327	12.5	20.0	307	326
33.0	27.5	35.0	346	365	25.0	30.0	344	358	20.0	27.5	350	368	17.5	25.0	367	384
37.5	35.0	42.5	401	420	30.0	37.5	411	430	27.5	35.0	426	444	30.0	37.5	452	470
42.0																

Height under hook (m)	45,0 m - jib				m - jib		m - jib		m - jib	
	Gauge (m)		Gauge (m)		Gauge (m)	Gauge (m)	Gauge (m)	Gauge (m)	Gauge (m)	Gauge (m)
	5.0	4.5	5.0	4.5						
	Center-ballast (t)		max. Corner-load (kN)*		Center-ballast (t)	max. Corner-load (kN)*	Center-ballast (t)	max. Corner-load (kN)*	Center-ballast (t)	max. Corner-load (kN)*
15.0	17.5	22.5	284	297						
19.5	17.5	22.5	296	310						
24.0	17.5	22.5	310	323						
28.5	17.5	22.5	329	343						
33.0	17.5	25.0	388	406						
37.5	30.0	37.5	474	492						
42.0										

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