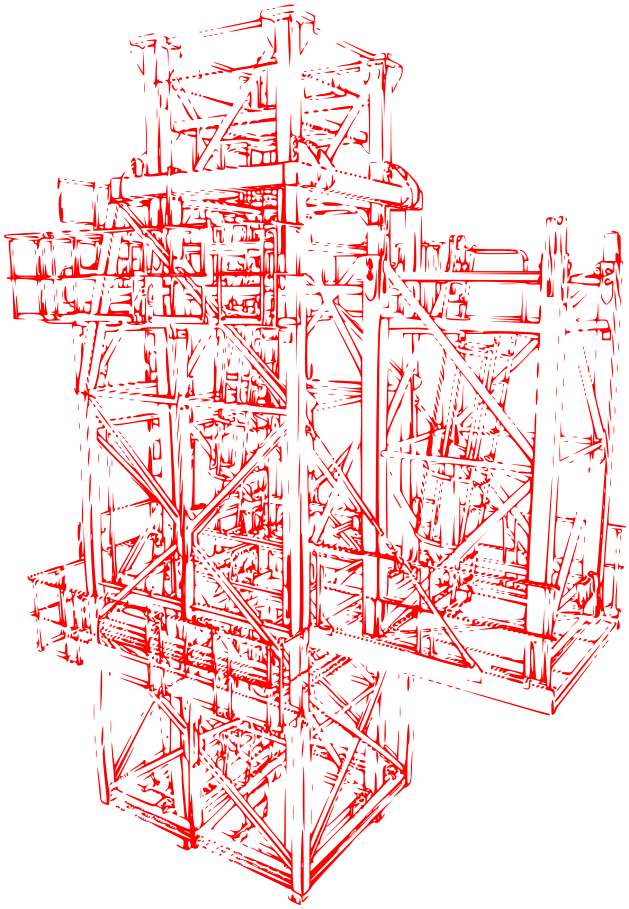
WOLFFKRAN

System component

WOLFF Outer climbing device

Technical informations



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English

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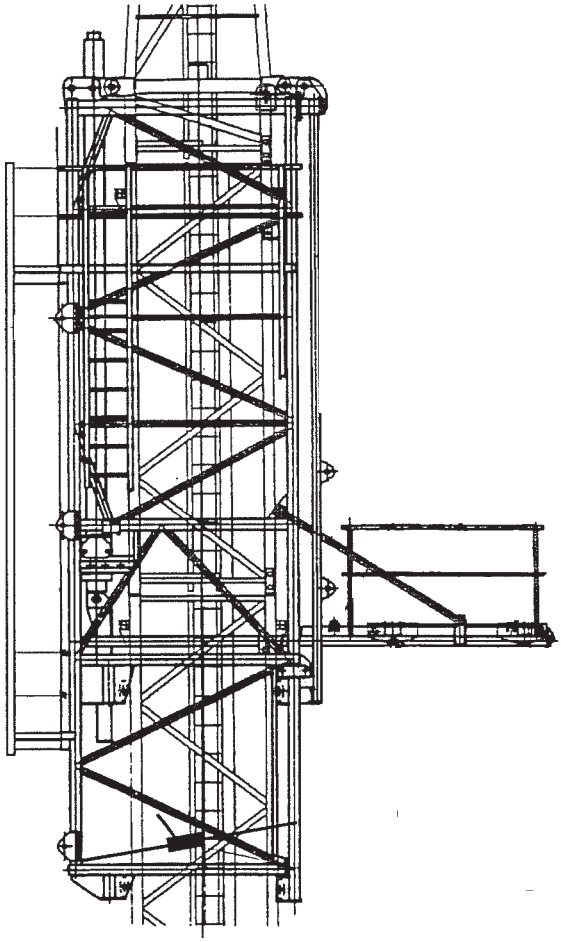


Outer climbing device KWH 15.2

The climbing frame can be mounted or dismounted using the WOLFF slewing tower crane itself or a mobile crane.

For mounting the hydraulic outer climbing device, the WOLFF slewing tower crane must have the following minimum hook heights.

Stationary on the foundation	
▪ 2 tower elements	10.5 m hook height

Mobile	
▪ 3 tower elements	15.0 m hook height

After climbing has been completed, the climbing device must be lowered (down to the brace connected to the building or down to the tower base) or dismounted.

Climbing device, complete	
Weight	6600 kg

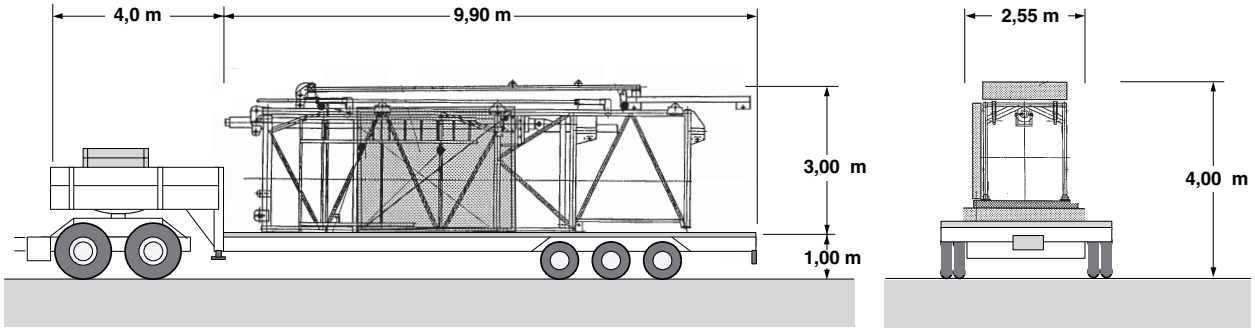
1 Outer climbing device KWH 15.2

Hydraulic cylinder: 2190	
Lifting time	Approx. 7 min
Force at 300 bar	600 kN
Operating pressure max.	300 bar
Piston surface, lifting, Ø 160 mm	201 cm²
Piston surface, lowering, Ø 160/140 mm	47 cm²
Stroke max.	5350 mm
Emergency lowering	Possible

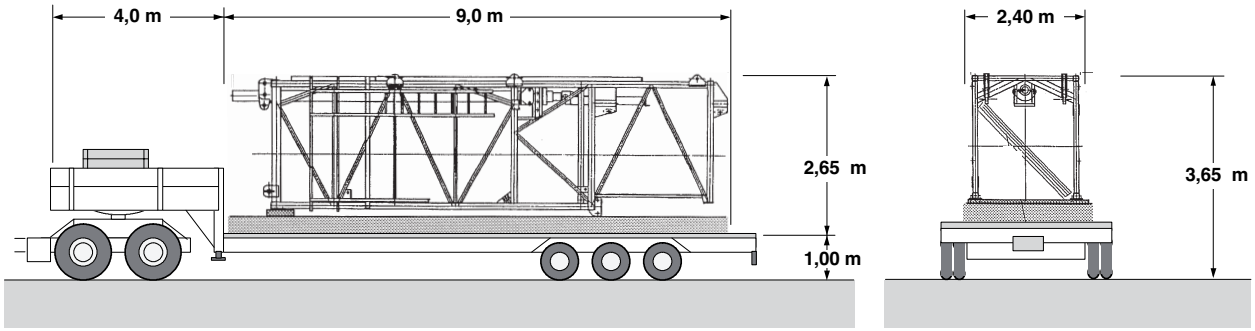
Hydraulic unit: 2529	
Fluid filling ISO VG 68 Initial filling Aral Vitam GF 68	130 liters
Fluid filter with contamination indicator	
Pressure gauge	
Pressure relief valve set to	300 bar
Pump	17 l/min.
Three phase motor	7.5 kW, 1450 min-1, 100% duty cycle, 380 V, 50 Hz

Control:	
manual	via control lever

2 Transport dimensions KWH 15.2



Loading example 1 KWH 15.2



Loading example 2 KWH 15.2

For transport, the climbing device can be loaded as shown in the example below.

Always comply with relevant traffic regulations when driving on public roads, highways etc.

- For transport, the climbing device can be dismounted (refer to package list).
- Lock up the hydraulic unit.
- Secure the hydraulic cylinder using the transport lock.
- The piston cross bar must be secured for transport.
- The climbing frame must be secured for transport.

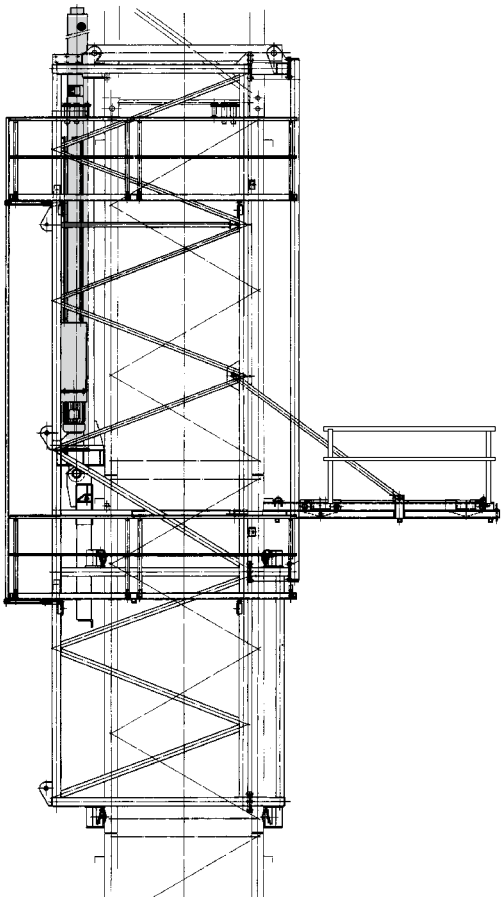
Loading example 1

- Front assembly bolted to the climbing frame.
- Moving carriage support with tie bars and moving carriage bolted to the side of the climbing frame.

Loading example 2

- Front assembly dismounted and placed in the climbing frame.
- Moving carriage support and moving carriage placed in the climbing frame.

3 Outer climbing device KWH 20.3



Outer climbing device KWH 20.3

The climbing frame can be mounted or dismounted using the WOLFF slewing tower crane itself or a mobile crane.

For mounting the hydraulic outer climbing device, the WOLFF slewing tower crane must have the following minimum hook heights.

Stationary on the foundation	
▪ 2 tower elements	10.5 m hook height

Stationary on cross frame	
▪ 2 tower elements ▪ 1 cross frame	11.5 m hook height

Stationary on cross frame element	
▪ 2 tower elements ▪ 1 cross frame element	14.5 m hook height

Stationary on undercarriage	
▪ 2 tower elements ▪ 1 undercarriage	15.0 m hook height

After climbing has been completed, the climbing device must be lowered (down to the brace connected to the building or down to the tower base) or dismounted.

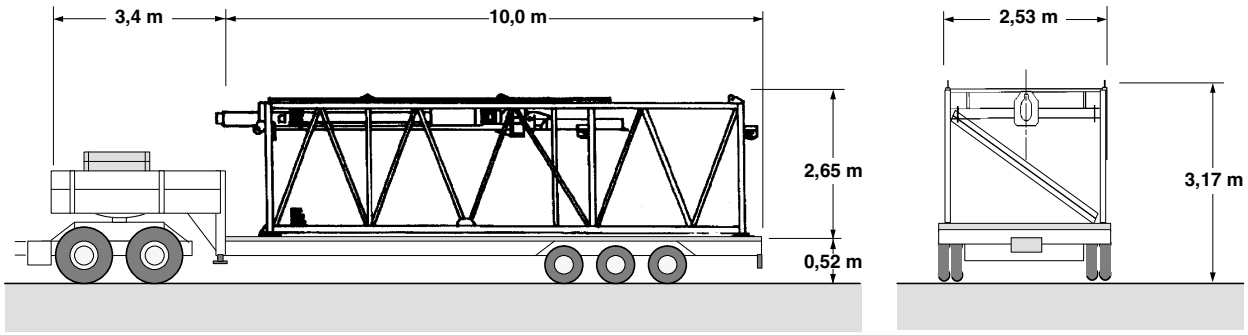
Climbing device, complete	
Weight	8400 kg

Hydraulic cylinder: 2301	
Weight	1700 kg
Lifting time	Approx. 10 min
Force at 220 bar	660 kN
Operating pressure max.	280 bar.
Piston surface, lifting, Ø 200 mm	314 cm²
Piston surface, lowering, Ø 200/150 mm	137 cm²
Stroke max.	5400 mm
Emergency lowering	Possible

Hydraulic unit: 2530	
Weight	370 kg
Fluid filling ISO VG 68 Initial filling: ESSO NUTO H 68	130 liters
Fluid filter with contamination indicator	
Pressure gauge	
Pressure relief valve set to	280 bar.
Pump	17 l/min.
Squirrel-cage motor	11 kW, 1465 min-1, 100% duty cycle, 400 V, 50 Hz

Control:	
manual	via hand lever

4 Transport dimensions KWH 20.3



Loading example KWH 20.3

For transport, the climbing device can be loaded as shown in the example below.

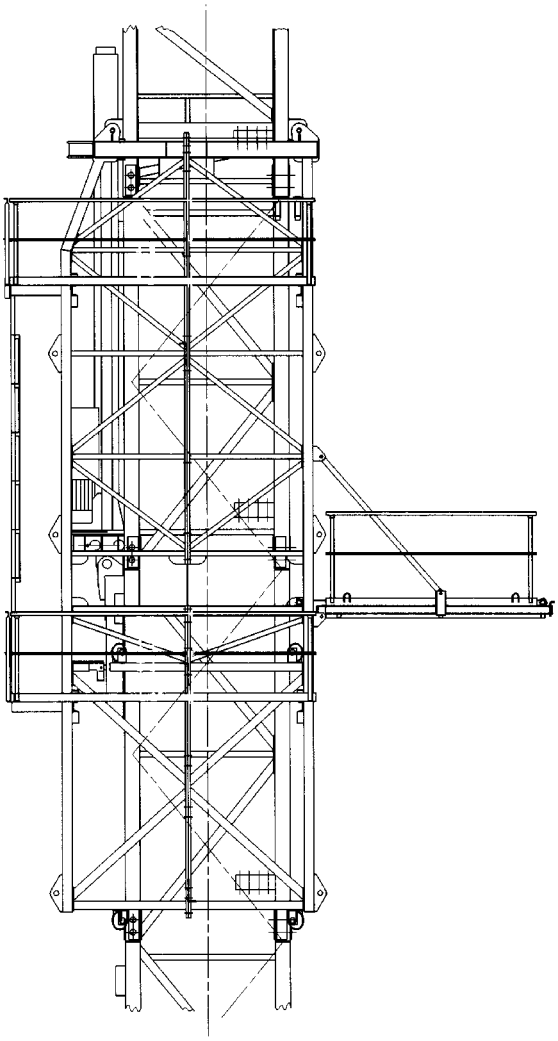
Always comply with relevant traffic regulations when driving on public roads, highways etc.

- For transport, the climbing device must be dismounted (refer to package list).
- Lock up the hydraulic unit.
- Secure the hydraulic cylinder using the transport lock.
- The piston cross bar must be secured for transport.
- The climbing frame must be secured for transport.

Loading example

- Front assembly dismounted and placed in the climbing frame.
- Side platforms and railings placed in the climbing frame.
- Moving carriage with tie bars and moving carriage support placed in the climbing frame.

5 Outer climbing device KWH 20.6



Outer climbing device KWH 20.6

The climbing frame can be mounted or dismounted using the WOLFF slewing tower crane itself or a mobile crane.

For mounting the hydraulic outer climbing device, the WOLFF slewing tower crane must have the following minimum hook heights.

Stationary on the foundation	
▪ 2 tower elements	10.5 m hook height

Stationary on cross frame	
▪ 2 tower elements ▪ 1 cross frame	11.5 m hook height

5 Outer climbing device KWH 20.6

Stationary on cross frame element	
▪ 2 tower elements ▪ 1 cross frame element	14.5 m hook height

Stationary on undercarriage	
▪ 2 tower elements ▪ 1 undercarriage	15.0 m hook height

After climbing has been completed, the climbing device must be lowered (down to the brace connected to the building or down to the tower base) or dismounted.

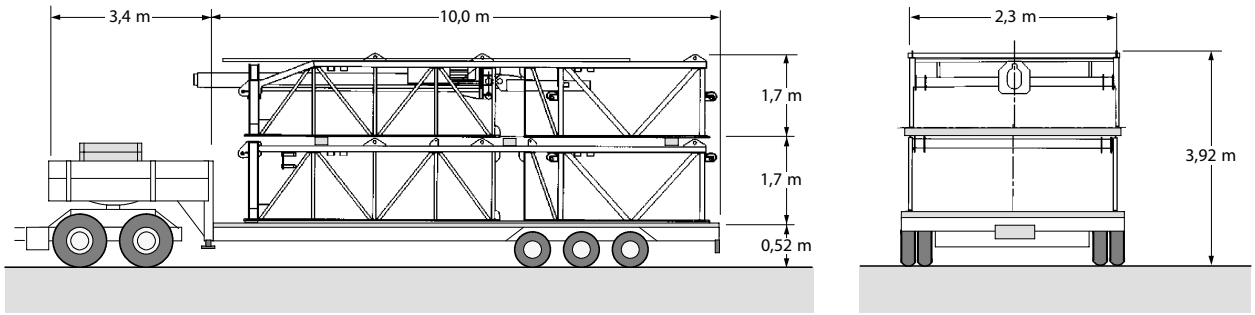
Climbing device, complete	
Weight	11380 kg

Hydraulic cylinder: 3884	
Weight	2500 kg
Lifting time	Approx. 15 min
Force at 280 bar	1250 kN
Operating pressure max.	300 bar
Piston surface, lifting, Ø 240 mm	452 cm²
Piston surface, lowering, Ø 240/170 mm	226 cm²
Stroke max.	5400 mm
Emergency lowering	Possible

Hydraulic unit: 2884	
Weight	425 kg
Fluid filling ISO VG 68 Initial filling: ESSO NUTO H 68	190 liters
Fluid filter with contamination indicator	
Pressure gauge	
Pressure relief valve set to	300 bar
Pump	17 l/min.
Squirrel-cage motor	11 kW, 1465 min-1, 100% duty cycle, 400 V, 50 Hz

Control:	
manual	via hand lever

6 Transport dimensions KWH 20.6



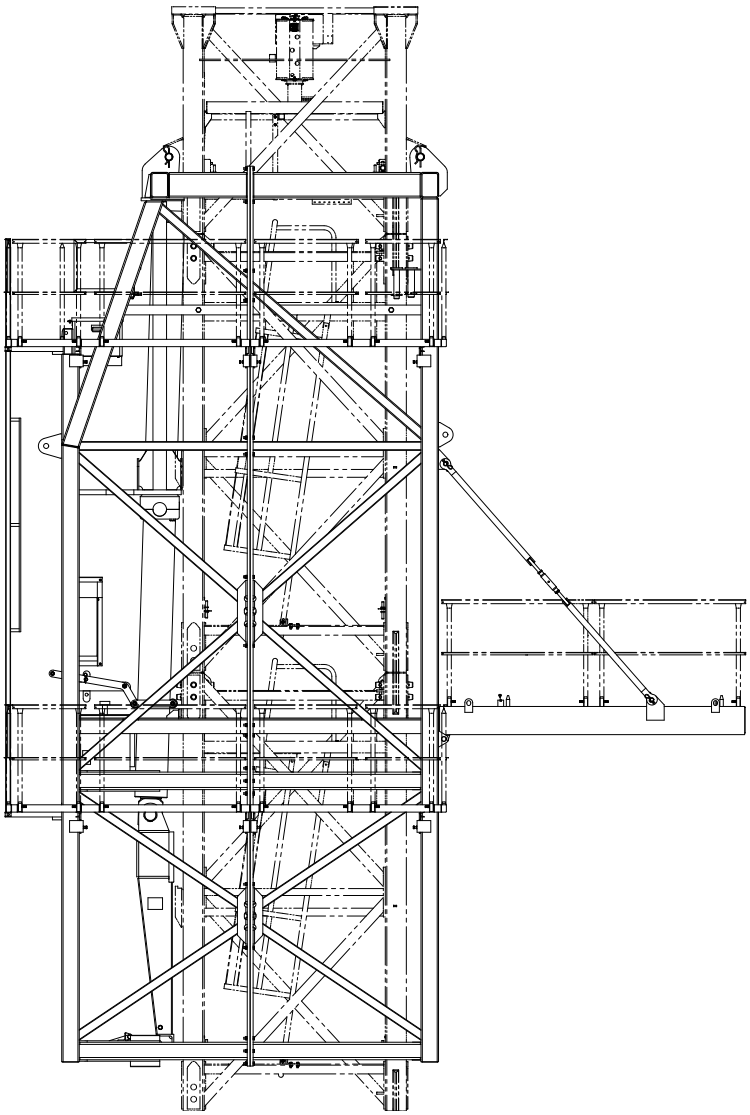
Loading example KWH 20.6

For transport, the climbing device can be loaded as shown in the drawing.

Always comply with relevant traffic regulations when driving on public roads, highways etc.

- For transport, the climbing device must be dismounted (refer to package list).
- Lock up the hydraulic unit.
- Secure the hydraulic cylinder using the transport lock.
- The piston cross bar must be secured for transport.
- The climbing frame must be secured for transport.

7 Outer climbing device KWH 23



Outer climbing device KWH 23

The climbing frame can be mounted or dismounted using the WOLFF slewing tower crane itself or a mobile crane.

For mounting the hydraulic outer climbing device, the WOLFF slewing tower crane must have the following minimum hook heights.

Stationary on the foundation	
▪ 2 tower elements	10.5 m hook height

Stationary on the cross frames (traveling cross frame):	
▪ 3 tower elements ▪ 1 cross frame e.g. KR 12-60/80 ▪ (1 traveling cross frame e.g. KRF 12-60/80)	14.7 m hook height

After climbing has been completed, the climbing device must be lowered (down to the brace connected to the building or down to the tower base) or dismounted.

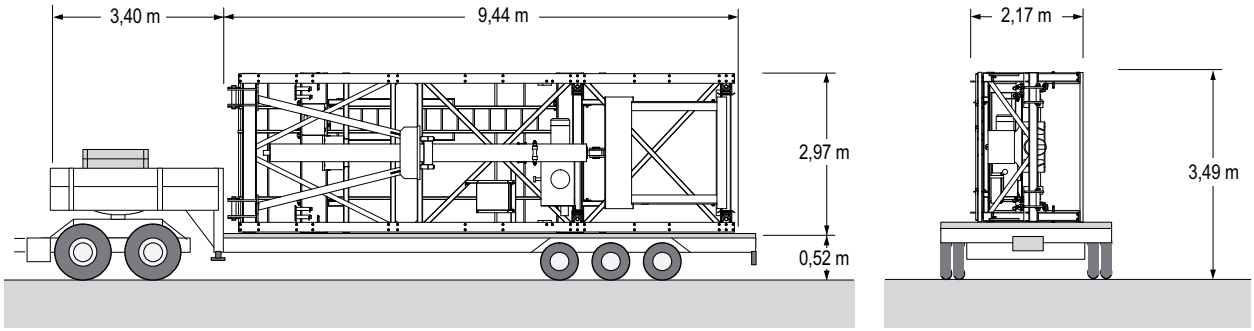
Climbing device, complete	
Weight	17800 kg

Hydraulic cylinder: 151-41284	
Weight	2925 kg
Lifting time	Approx. 12 min
Force at 300 bar	1700 kN
Operating pressure max.	300 bar
Piston surface, lifting, Ø 200 mm	616 cm²
Piston surface, lowering, Ø 200/160 mm	302 cm²
Stroke max.	5400 mm
Emergency lowering	Possible

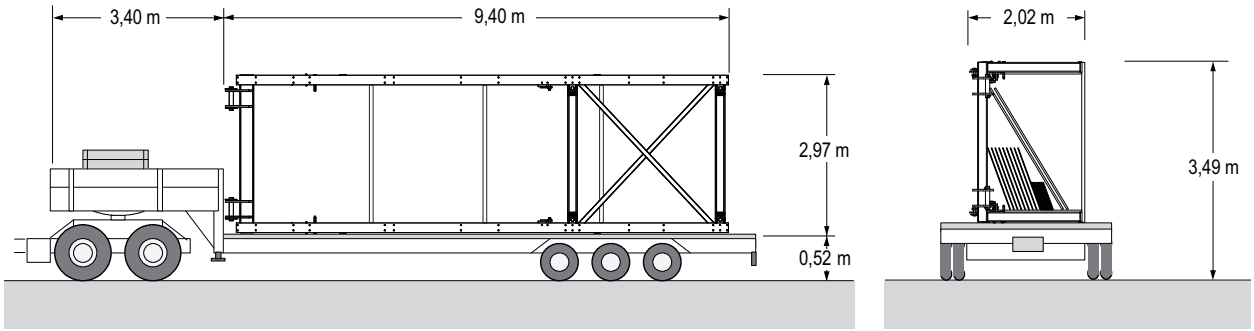
Hydraulic-unit: 299-40542	
Weight	385 kg
Fluid filling ISO VG 32 Initial filling ESSO NUTO H 32	420 liters
Fluid filter with contamination indicator	
Pressure gauge	
Pressure relief valve set to	300 bar
Pump	40 l/min.
Squirrel-cage motor	18.5 kW, 1500 min-1, 100% duty cycle, 400 V, 50 Hz

Control system: 75040337	
Electrical	Hand-held control console

8 Transport dimensions KWH 23



Rear half of climbing frame



Front half of climbing frame with add-on elements

For transport, the climbing device can be loaded as shown in the example below.

Always comply with relevant traffic regulations when driving on public roads, highways etc.

- For transport, the climbing device must be dismounted (refer to package list).
- Lock up the hydraulic unit.
- Secure the hydraulic cylinder using the transport lock.
- The piston cross bar must be secured for transport.
- The climbing frame must be secured for transport.

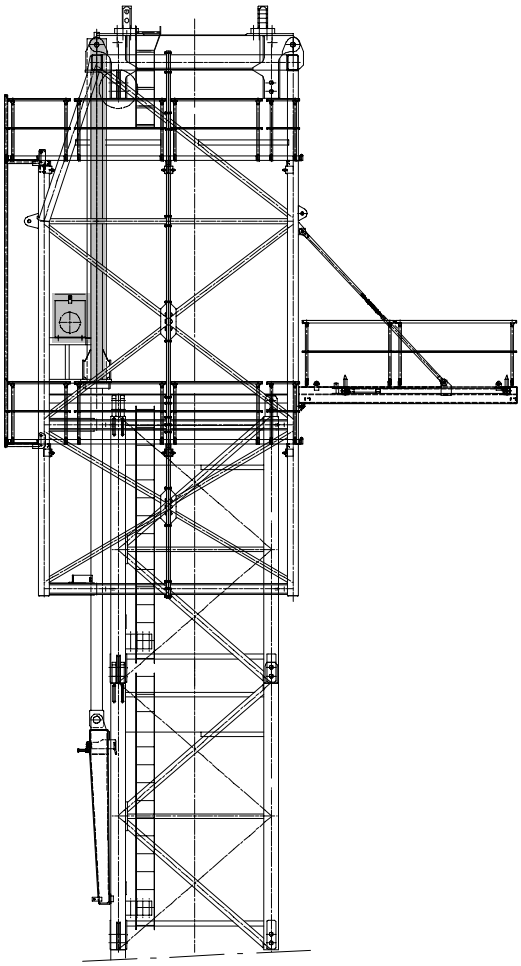
Loading example for rear half of climbing frame

Rear half of the climbing frame with the hydraulic system installed and the mounting platform attached and folded away.

Loading example for front half of climbing frame

Place the side platforms and railings in the front half of the climbing frame. Moving carriage support with moving carriage, and tie bars may be placed on the elevated front part (gooseneck) of the low platform trailer.

9 Outer climbing device KWH 29



Outer climbing device KWH 29

The climbing frame can be mounted or dismounted using the WOLFF slewing tower crane itself or a mobile crane.

For mounting the hydraulic outer climbing device, the WOLFF slewing tower crane must have the following minimum hook heights.

Stationary on the foundation	
▪ 1 joining frame VR2529 ▪ 2 tower elements	10.2 m hook height

Stationary on cross frame	
▪ 1 joining frame VR 2529 ▪ 2 tower elements ▪ 1 cross frame	12.0 m hook height

9 Outer climbing device KWH 29

After climbing has been completed, the climbing device must be lowered (down to the brace connected to the building or down to the tower base) or dismounted.

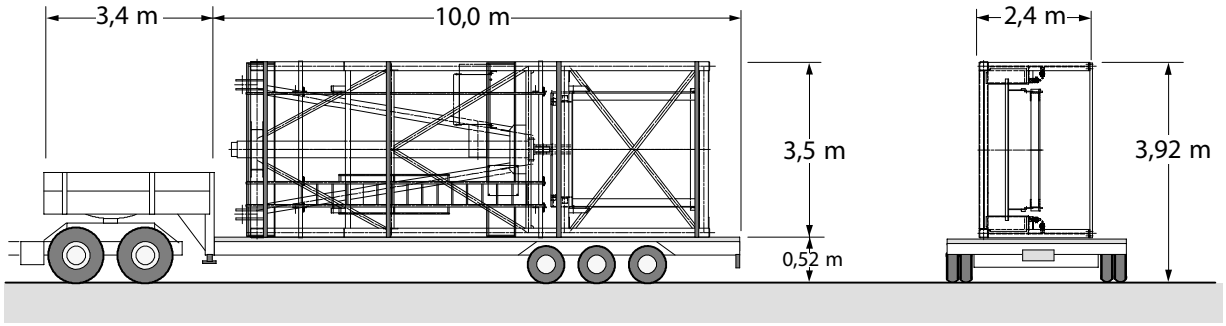
Climbing device, complete	
Weight	19330 kg

Hydraulic cylinder	
Weight	2150 kg
Lifting time	Approx. 12 min
Force at 290 bar	1700 kN
Operating pressure max.	300 bar
Piston surface, lifting, Ø 280 mm	616 cm²
Piston surface, lowering, Ø 280/200 mm	302 cm²
Stroke max.	5400 mm
Emergency lowering	Possible

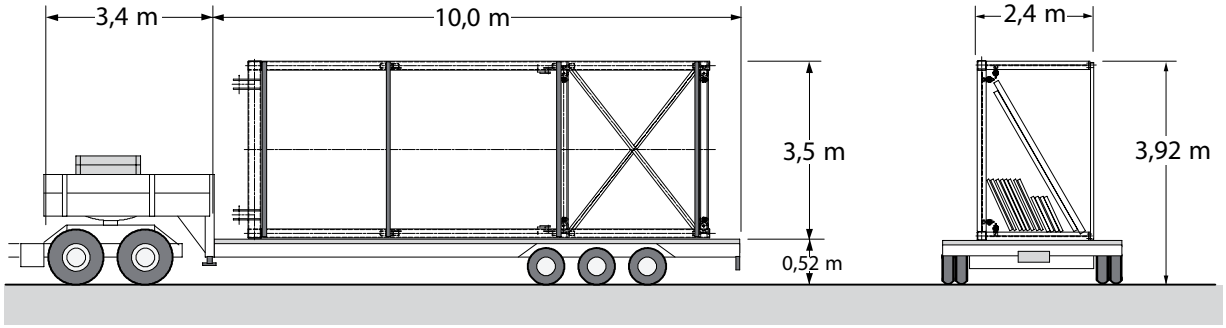
Hydraulic-unit	
Weight	620 kg
Fluid filling ISO VG 32 Initial filling: ESSO NUTO H 32	420 liters
Fluid filter with contamination indicator	
Pressure gauge	
Pressure relief valve set to	300 bar
Pump	40 l/min.
Squirrel-cage motor	18.5 kW, 1500 min-1, 100% duty cycle, 400 V, 50 Hz

Control:	
Electrical	Hand-held control console

10 Transport dimensions KWH 29



Loading example 1 KWH 29



Loading example 2 KWH 29

For transport, the climbing device can be loaded as shown in the example above.

Always comply with relevant traffic regulations when driving on public roads, highways etc.

- For transport, the climbing device must be dismounted (refer to package list).
- Lock up the hydraulic unit.
- Secure the hydraulic cylinder using the transport lock.
- The piston cross bar must be secured for transport.
- The climbing frame must be secured for transport.

Loading example 1

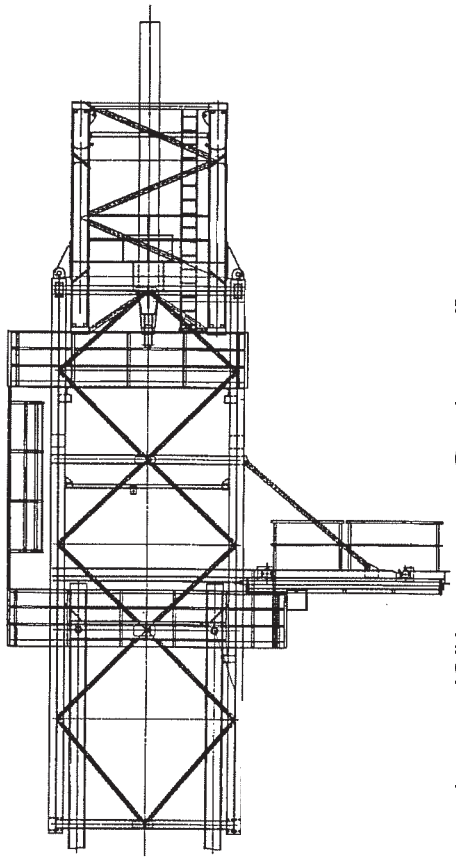
Rear half of the climbing frame with the hydraulic system installed and the rear mounting platform attached and folded away.

Loading example 2

Front half of climbing frame secured with transport lock.

Side platforms, moving carriage support and moving carriage and standard railings placed in the front half of the climbing frame.

11 Outer climbing device KWH 33



Outer climbing device KWH 33

The climbing frame can be mounted or dismounted using the WOLFF slewing tower crane itself or a mobile crane.

For mounting the hydraulic outer climbing device, the WOLFF slewing tower crane must have the following minimum hook heights.

Stationary on the foundation	
▪ 3 tower elements TV 33-5 ▪ 1 Climbing tower element	

travellig setup	
▪ 1 undercarriage ▪ 3 tower elements TV 33-5 ▪ 1 Climbing tower element	

After climbing has been completed, the climbing device must be lowered (down to the brace connected to the building or down to the tower base) or dismounted.

Climbing tower element, complete	
Weight	20700 kg

Climbing frame, complete	
Weight	22500 kg

Hydraulic cylinder: climbing cross bar no. 3691	
Lifting time	Approx. 15 min
Force at 310 bar	2860 kN
Piston surface, lifting, Ø 350 mm	961 cm²
Piston surface, lowering, Ø 350/220 mm	581 cm²
Stroke max.	5430 mm
Emergency lowering	Possible

Hydraulic cylinder: climbing cross bar no. 3692	
Fluid filling ISO VG 68 Initial filling: ESSO NUTO H 68	320 liters
Fluid filter with contamination indicator	
Pressure gauge	
Pressure relief valve	
Pump	35 l/min.
Three phase motor	15 kW, 1460 min-1, 100% duty cycle, 400 V, 50 Hz

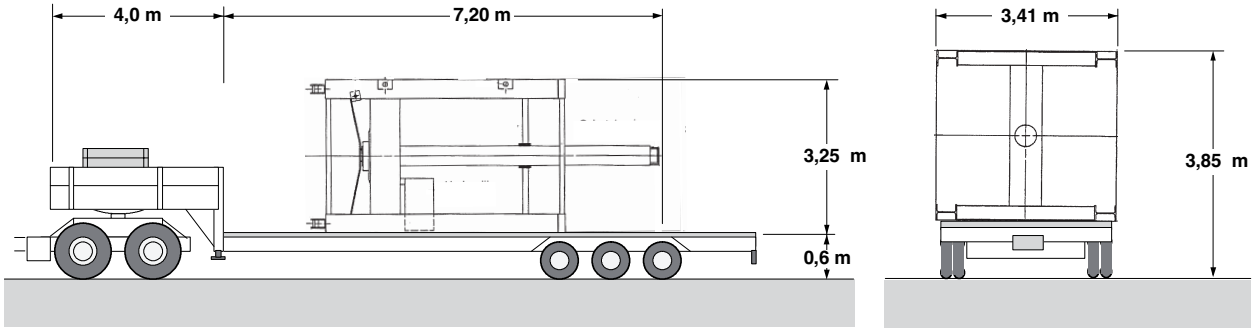
Control:	
manual	via hand lever
remote controlled	via cable with portable control console

Hydraulic cylinder: moving carriage Nr. 3694	
Lifting time	approx. 1.5 min
Pressure at 60 bar	13 kN
traction force at 60 bar	6 kN
Piston surface, pushing, Ø 63 mm	31 cm²
Piston surface, pulling, Ø 63/45	15 cm²
Stroke max.	4000 mm

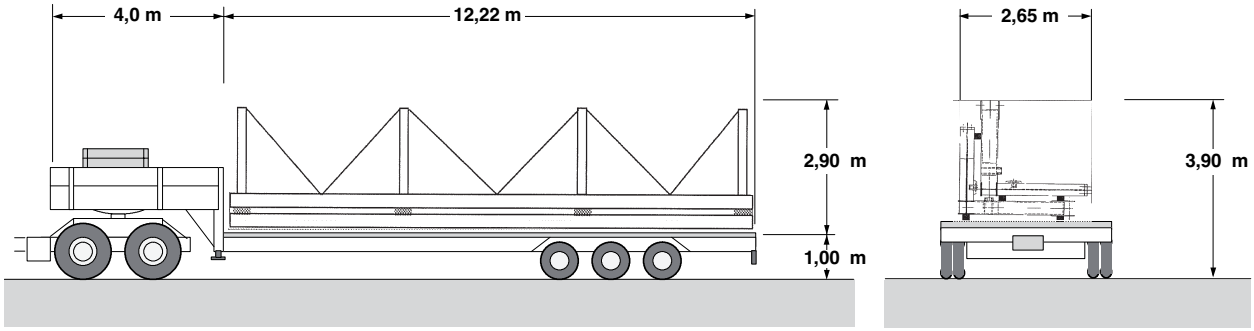
Hydraulic unit: moving carriage no. 3695	
Fluid filling ISO VG 68 Initial filling: ESSO NUTO H 68	10 liters
Oil filter	
Pressure gauge	
Pressure relief valve	
Pump	5.2 l/min.
Three phase motor	0.55 kW, 1390 min-1, 100% duty cycle, 400 V, 50 Hz

Control:	
manual	via hand lever

12 Transport dimensions KWH 33



Example for loading climbing tower element KWH 33



Example for loading the climbing frame KWH 33

For transport, the climbing device can be loaded as shown in the example above.

Always comply with relevant traffic regulations when driving on public roads, highways etc.

- For transport, the climbing device must be dismounted (refer to package list).
- Lock up the hydraulic unit.
- Secure the hydraulic cylinder using the transport lock.
- The piston cross bar must be secured for transport.
- The climbing frame must be secured for transport.
- Disassamble the side-mounted lifting eyes for transport.

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