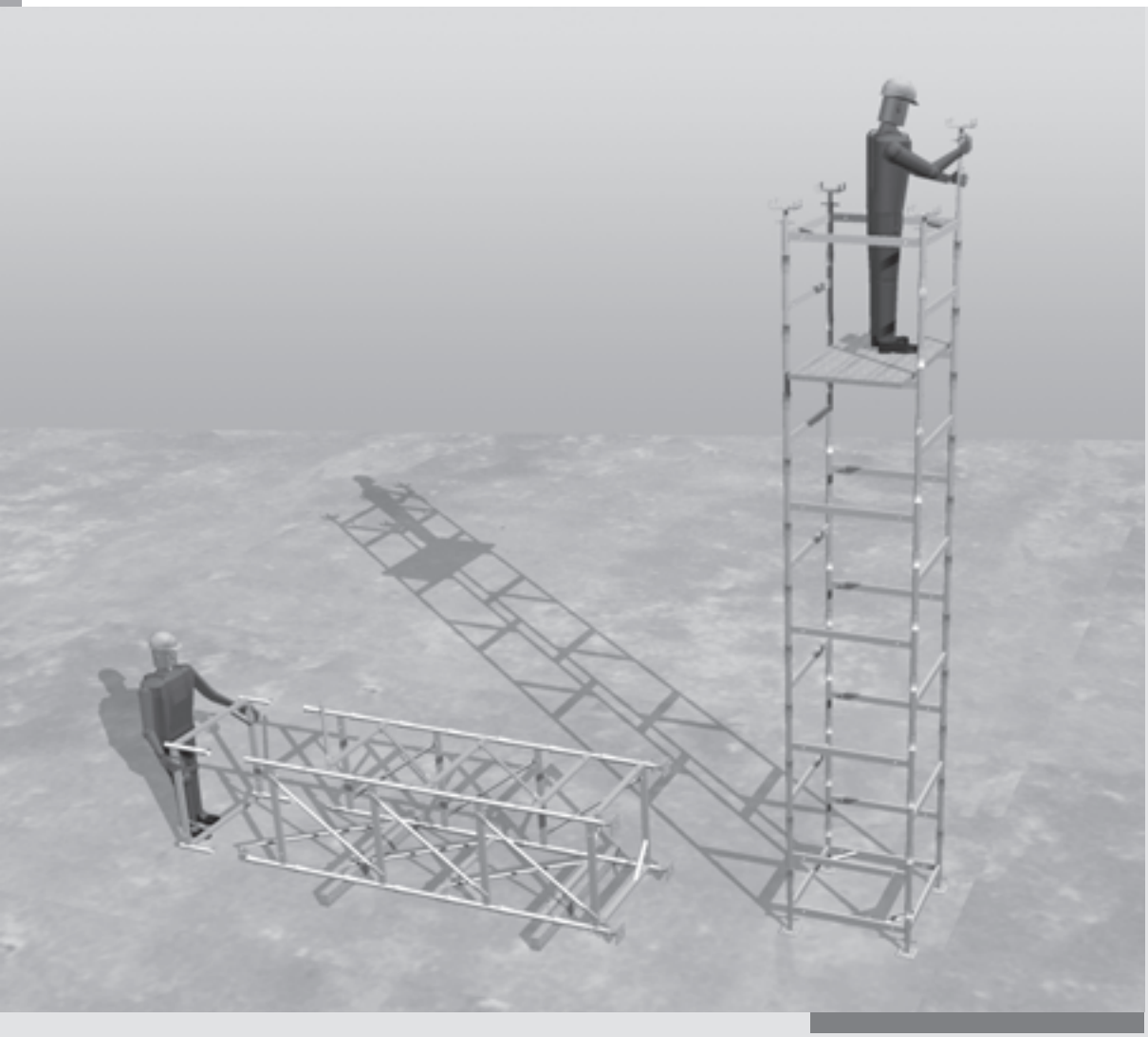
PERI®

ST 100 Stacking Tower
Shoring

Assembly Instructions for Standard Configuration



Edition 02/2009

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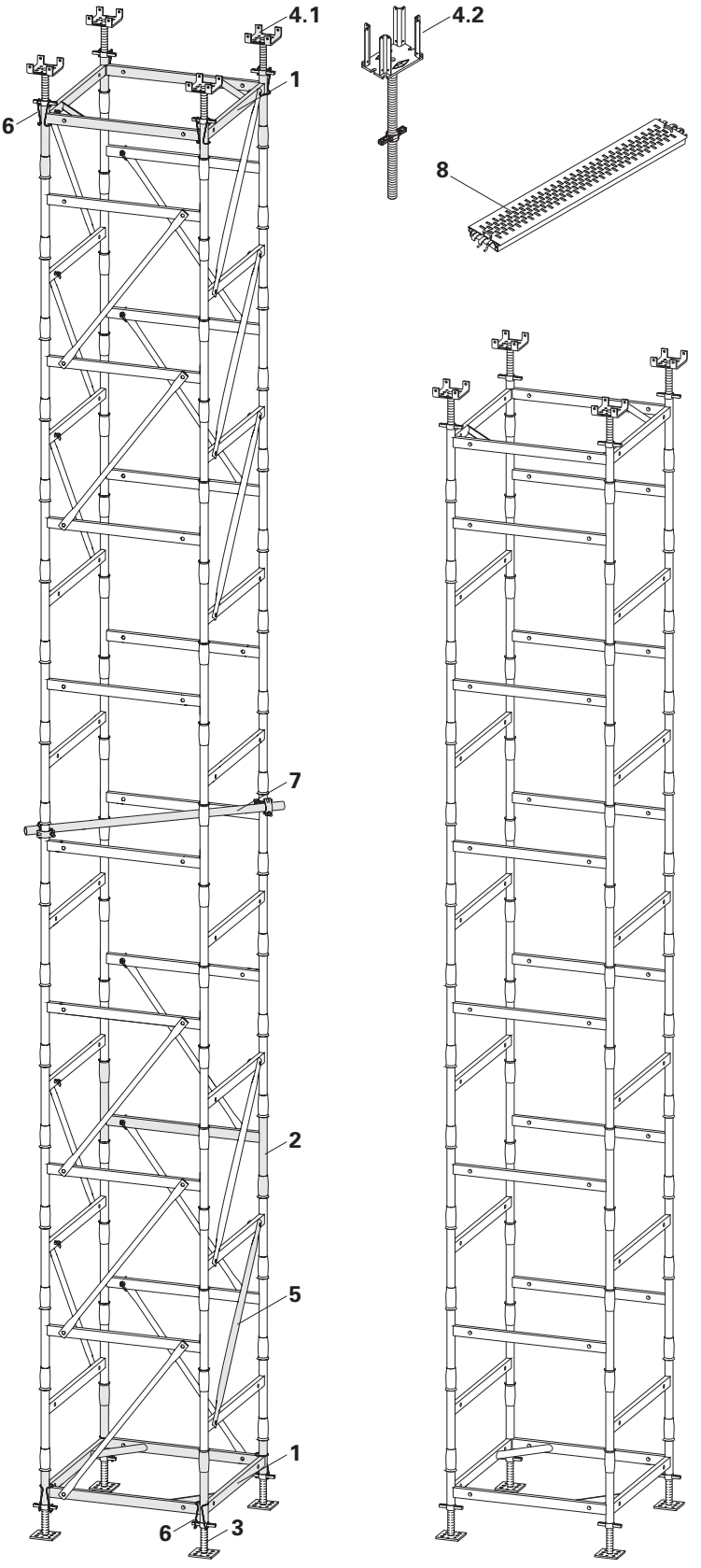


1 Base-Head Frame ST 100
2 Stacking Frame ST 100
3 Base Spindle TR 38-70/50
4.1 Adjustable Crosshead Spindle TR 38-70/50
4.2 Crosshead Spindle TR 38-70/50
5 Diagonal Brace ST 100
6 Safety Strap
7 Horizontal Brace
8 Industrial Deck UDI 25 x 100

Introduction

Standard configuration

General
The structures presented in these assembly instructions are shown in the form of examples with only one component size. They are valid accordingly for all component sizes contained in the standard configuration.

Features
The PERI ST 100 Stacking Tower is used for shoring purposes. The tower can be used either free-standing or restrained at the top.
All permissible heights can be assembled using only one type of stacking frame. Connecting the stacking frame is carried out without any small parts - simply slotted together! If required, tension-proof connections are achieved using diagonal bracing.
Assembly and dismantling is possible both vertically and horizontally without the use of a crane.
The ST 100 is completely galvanized and maintenance-free.

Main components
Base-Head Frame ST 100
Stacking Frame ST 100
Diagonal Brace ST 100
Head and Base Spindles ST 100

System dimensions
Assembly heights up to 22.29 m.

Square-shaped layout with 1.00 m x 1.00 m axial dimensions.

Technical data
Permissible load-bearing capacities: see type tests and PERI design tables.

Intended use

1. PERI products have been exclusively designed as technical work equipment and are only intended for commercial use by technically competent users.

2. These assembly instructions serve as a basis for the building-related risk evaluation and the instructions for the provision and use of the system by the contractor (users). However, this does not replace these.

3. Only PERI original components may be used. The use of other products and spare parts represent a misapplication with associated safety risks.

4. The components are to be inspected before each use to ensure that they are in perfect condition as well as functioning correctly.

5. Changes to PERI components are not permitted and represent a misapplication with associated safety risks.

6. Safety instructions and permissible loads are to be observed at all times.

7. Components supplied by the contractor must comply with the characteristics required in these assembly instructions and all valid regulations and standards.
In particular, the following apply if nothing else is specified:
– timber components: Strength Class C24 for Solid Wood EN 338.
– scaffold tubes: galvanized steel tubing with minimum dimensions Ø 48.3 x 3.2 mm according to EN 12811-1:2003 4.2.1.2.
– scaffold tube couplings according to EN 74.

8. Any deviations from the standard configuration may only be carried out after a separate risk evaluation by the contractor (user). On this basis, appropriate measures for the working safety and stability are to be implemented.

Introduction

Safety instructions

General
1. Deviations from the standard configuration and/or intended use present a potential safety risk.

2. All country-specific laws, standards and other safety regulations are to be taken into account when are products are used.

3. During unfavourable weather conditions, suitable precautions and measures are to be taken in order to ensure both working safety and stability.

4. The contractor (user) must ensure stability during all stages of construction. He has to ensure and verify that all loads which occur are safely transferred.

5. The contractor (user) has to provide safe working areas which can be safely accessed. Areas of risk must be cordoned off and clearly marked. Hatches and openings on accessible working areas must be kept closed during working operations.

6. For the sake of clarity, detailed presentations are partly incomplete. The safety installations which have possibly not been shown in these detailed descriptions must nevertheless be available.

Storage and transportation
1. Do not drop the components.

2. Store and transport components so that no unintentional change in their position is possible. Detach lifting gear from the lowered units only if these are in a stable position and no unintentional change is possible.

3. When moving the components, make sure they are lifted and set down so that any unintentional tilting over, falling apart, sliding or rolling away is avoided.

4. Use only suitable load-carrying equipment to move the components as well as the designated load-bearing points.

5. Remove or secure any loose components during moving procedures.

6. During the moving procedure, always use a guide rope.

7. Move components only on clean, flat and sufficiently load-bearing surfaces.

System-specific
1. Retract components only when the concrete has sufficiently hardened and the person in charge has given the go-ahead for striking to take place.

2. Anchoring is to take place only if the anchorage has sufficient concrete strength.

Additional PERI product information

- ST 100 Stacking Tower brochure
- ST 100 Stacking Tower type test
- PERI design tables
- Instructions for use for pallets and stacking devices

A1 Storage and transportation

Follow Instructions for Use for PERI pallet and stacking devices!

Manually-created transport units must be correctly stacked and secured!

Storage
ST 100 components are stored and transported in the PERI Pallet ST 100-2 (10a).
Capacity:
– 84 Stacking Frames +
– Head and Base Spindles +
– Diagonal Braces ST 100
(Fig. 1a)

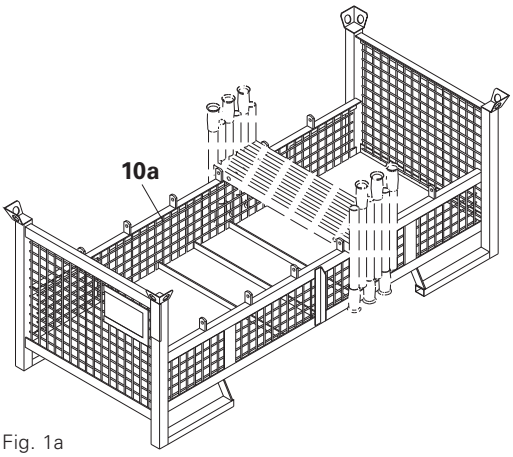


Fig. 1a

The Base-Head Frame ST 100 (1) is to be stored in stacks and transported according to current regulations.
(Fig.1b)

ST 100 components can also be stored and transported in PERI crate pallets (10b).
(Fig. 1c)

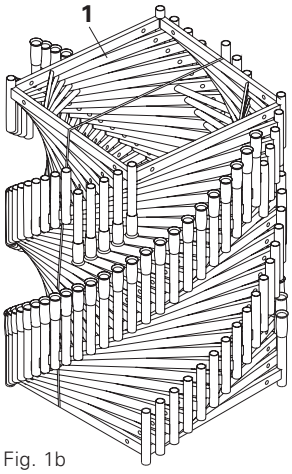


Fig. 1b

Transportation
PERI pallets and stacking devices are suitable for lifting with a crane or forklift. They can also be moved using the PERI pallet lifting trolley,
All pallets and stacking devices can be lifted using both the longitudinal and front sides.

The following are just some examples.

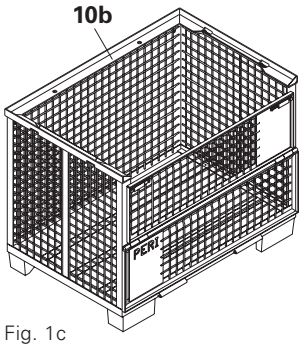


Fig. 1c

A2 Horizontal assembly

Assembly of the base

1. Insert four Base Spindles TR 38-70/50 (3) into the Base-Head Frame ST 100 (1). (Fig. 2)
2. Adjust Wing Nut (3.1) accordingly. Take into account the maximum spindle extension!
(see design tables)
3. Check the evenness by means of a spirit level and adjust height if necessary.
(Fig. 3)
4. Secure Base Spindles using Safety Straps (6).
(Fig. 4)

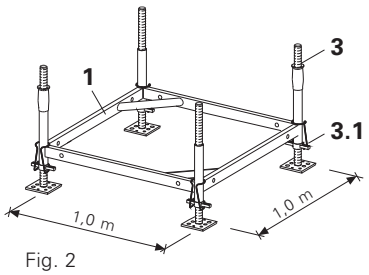


Fig. 2

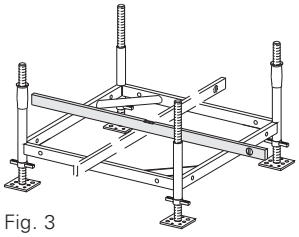


Fig. 3

5. Mount six Stacking Frames (2).
(Fig. 5)
6. Install four Diagonal Braces (5).
(Fig. 5)
7. Place tower base together with Base Spindles on timbers.
(Fig. 6)

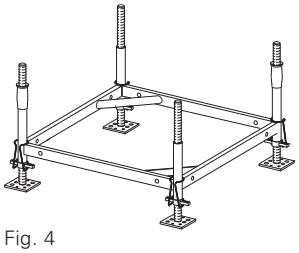
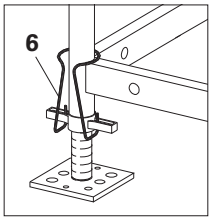


Fig. 4



Safety Straps must be attached to the longitudinal holes of the wing nuts.

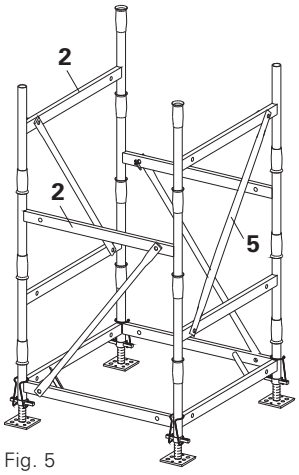


Fig. 5

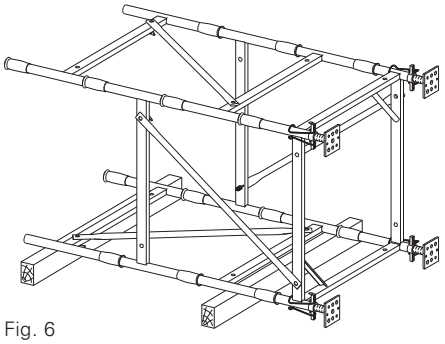


Fig. 6

A2 Horizontal assembly

Assembly of the tower

During horizontal assembly, ensure that all diagonal braces and safety straps are installed!

1. Mount Base-Head Frames (2) up to the required height (4 pieces per metre of height).
(Fig. 7)
2. Install Diagonal Braces (5) keeping pace with assembly progress.
Assembly: see below
3. Insert Base-Head Frame (1).
(Fig. 8)
4. Adjust Head Spindle (4) accordingly. Take into account tne maximum spindle extension!
(see design tables)
5. Insert into the Base-Head Frame and secure by means of Safety Straps (6).
(Fig. 9)
The stacking tower is now tensile and compression-proof connected.

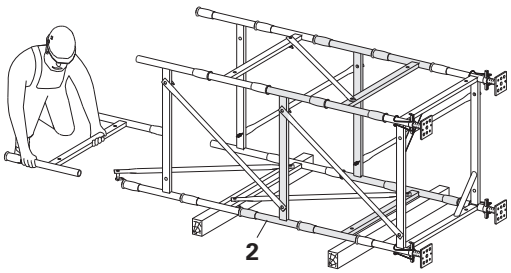


Fig. 7

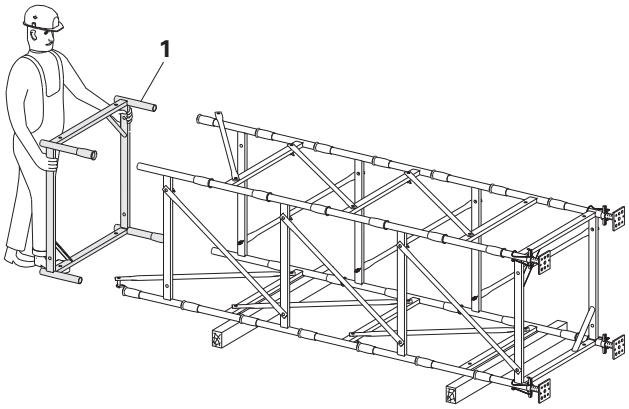


Fig. 8

For tower heights h > 8.30 m, a horizontal brace (7) is to be mounted in order to ensure the cross-sectional form, approx. for h/2, see A3.
This consists of: 1 x scaffold tube ø 48.3 and 2 x standard couplings.

Assembly of the diagonal bracing

Diagonal Braces can be internally or externally-mounted on the ST 100 Stacking Frame.
1. Attach pin (5.1) to the Base-Head Frame or Stacking Frame.
(Fig. 9a)
2. Fix to the next highest Stacking Frame by means of gravity pin (5.2).
(Fig. 9b)

The diagonals are now tension and compression-proof installed.

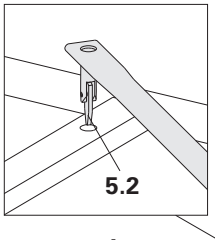


Fig. 9b

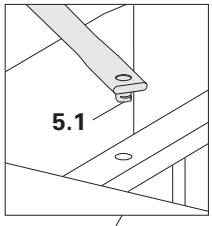


Fig. 9a

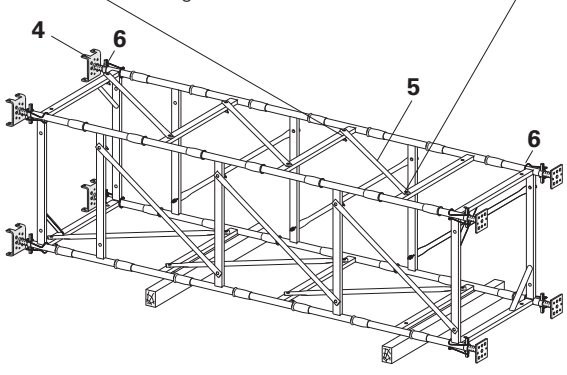


Fig. 9

A2 Horizontal assembly

Head spindles

Adjustable Crosshead Spindle TR 38-70/50 (4.1)
With articulated-mounted head plate. This carries loads centrically.
The maximum tilt of the forkhead is 4.4 % on all sides.
Different types of main beams can be used, e.g. Steel Walers SRZ/SRU or wooden girders.
(Fig. 10a)

Crosshead Spindle TR 38-70/50 (4.2).
With rigid head plate for tilt-resistant support of one or two GT 24 or VT 20 girders.
(Fig. 10b)

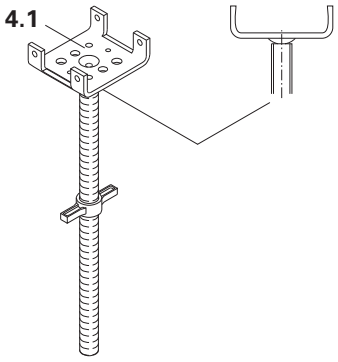


Fig. 10a

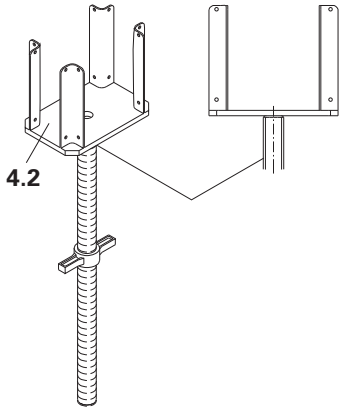


Fig. 10b

Erecting the tower

Check the stability at all times! Secure the stacking tower against tipping!

1. Erect the tower and secure. Make sure the tower is positioned on a flat and sufficiently load-bearing surface.
2. Place the tower in a vertical position. Check the vertical position of the legs and adjust if necessary.
3. Insert Industrial Decking UDI in order to create e.g. diagonal bracings or to remove lifting chains.

Tower height h ≤ 12.30 m
Attach lifting chains, l > 3.0 m (4-sling) to the top end of the tower. (Fig. 11)

Towers h > 12.30 m must be pre-mounted in several units.

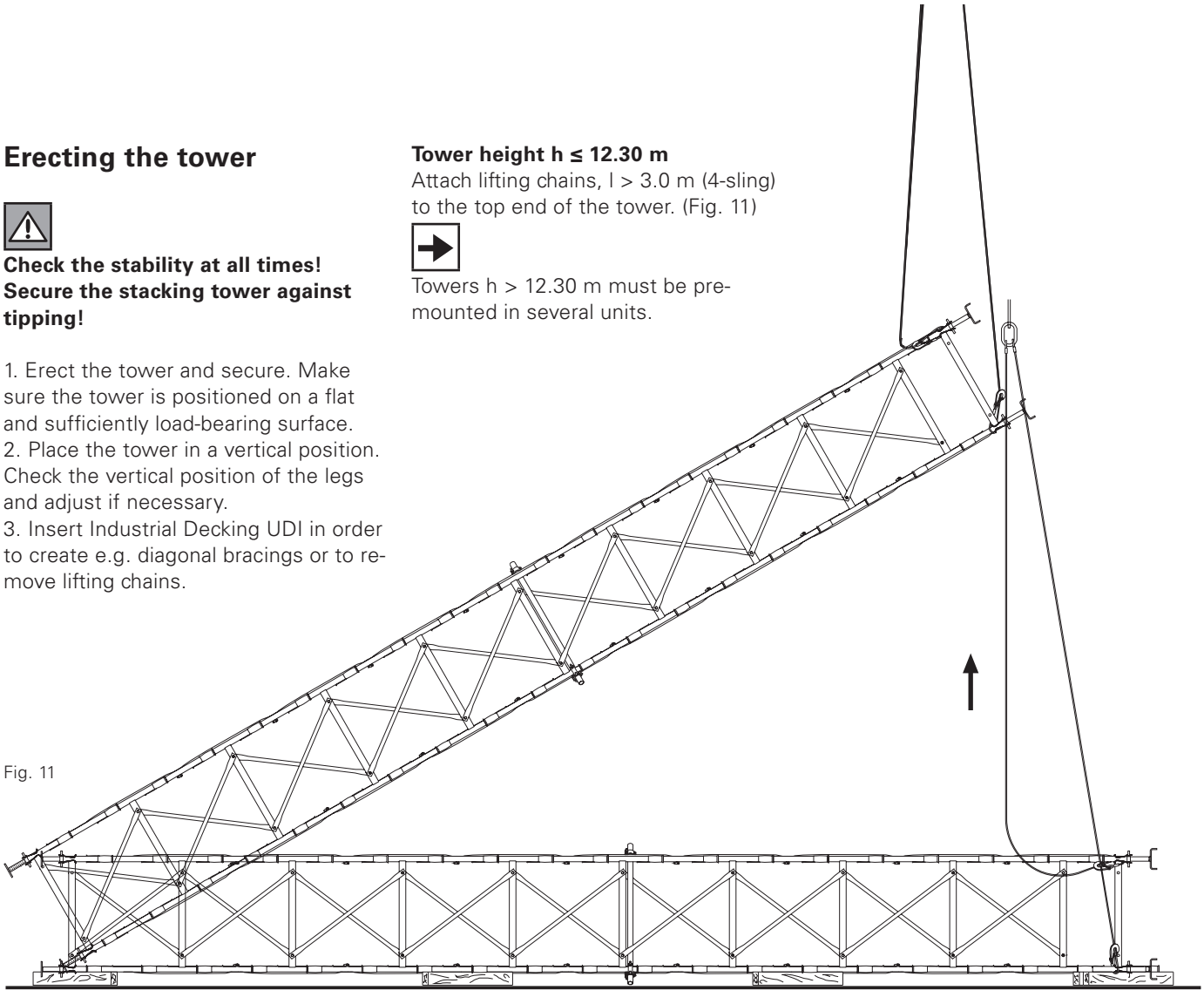


Fig. 11

A3 Vertical assembly

Assembly of the base

See A2: horizontal assembly

Assembly of the tower

Falling hazard!
Check the stability at all times!
Secure stacking tower against tipping!
Mount individual components from the inside!
Secure assembly decking against shifting!

1. Mount stacking frames (2) until required height has been reached (4 pieces per metre height).
(Fig. 14)
2. For tower heights of 2.0 m and more, install assembly decking as working areas. As decking, use securely fixed planking or Industrial Decking UDI.
(Fig. 14, 15)

Alternative:
Install Industrial Decking UDI 25 x 100 (8) in "spindle form" for use as access and platforms.
(Fig. 14b)
3. Install Diagonal Braces (5) and Safety Straps according to the individual application and static requirements.
Assembly: see A2.
4. Insert Base-Head Frame (1).
5. Adjust Head Spindles (4) accordingly and insert into the Base-Head Frame.
(Fig. 16)
Take into consideration the maximum spindle extension!
(See design tables)
6. Check the vertical position of the legs and adjust if necessary.

The formwork assembly can now be mounted.

Fig. 14

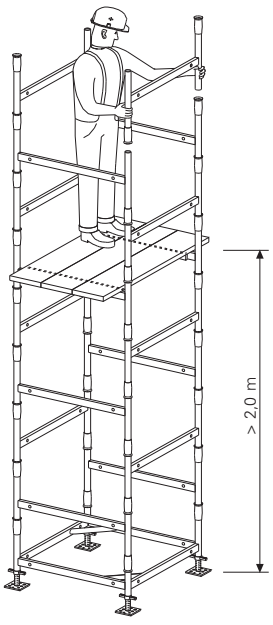


Fig. 15

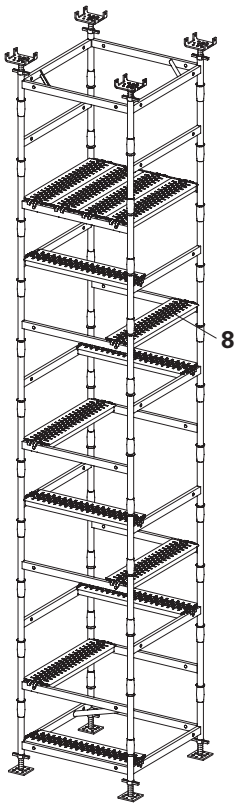
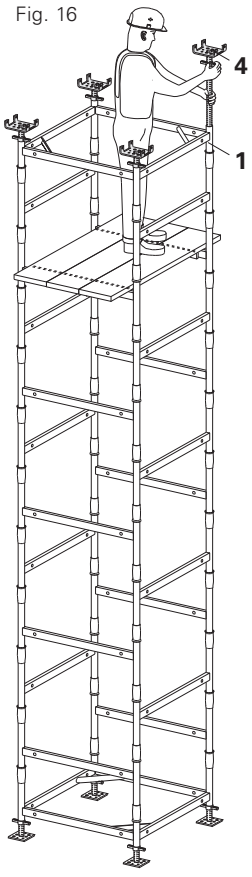


Fig. 16

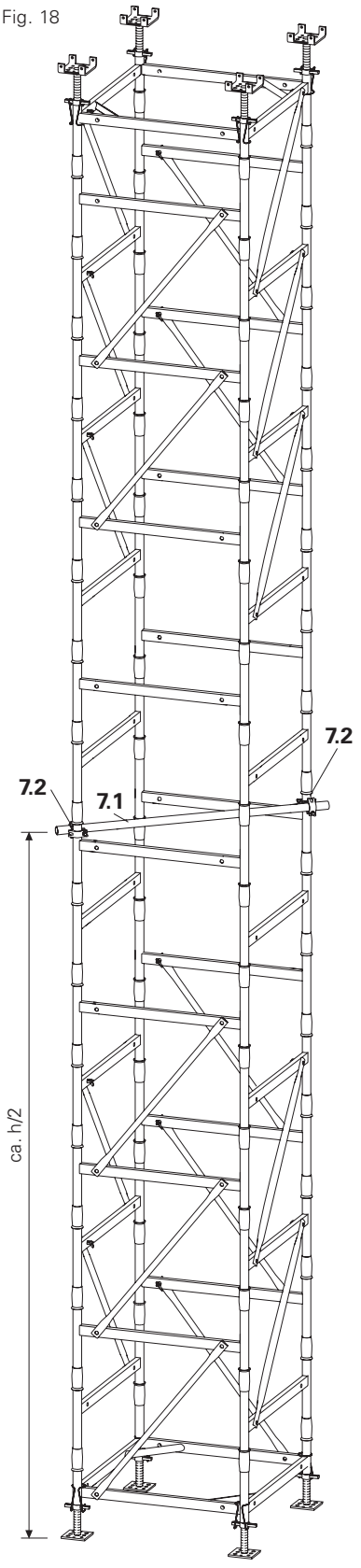


A3 Vertical assembly

Assembly of the tower

For tower heights h > 8.30 m, a horizontal brace is to be fitted in order to ensure the cross-sectional form, approx. at h/2.
(Fig. 18)
Consists of:
1 x scaffold tube ø 48.3 (7.1)
2 x standard couplings (7.2).

Fig. 18



Moving with the crane

1. Tightly connect all frames with diagonal bracing (5) and mount safety straps (6). (Fig. 17)
2. Attach lifting chains and position tower.
3. Remove chains only if the tower has been secured.

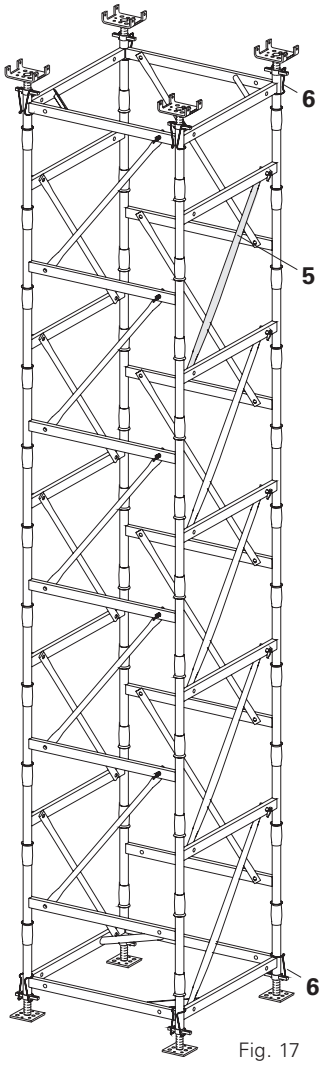


Fig. 17

A4 Dismantling

Ensure stability during dismantling!

The tower can be dismantled in either a vertical or horizontal position.

Dismantling vertically
1. Lower the stacking tower.
2. Remove formwork assembly.
3. Dismantle tower from top to bottom. Remove diagonal bracing only if the stability is guaranteed.
(Fig. 19)

Dismantling horizontally
1. Move out stacking tower from under the concreted slab.
2. Attach lifting chains and lower stacking tower onto a flat surface.
3. Dismantle stacking tower.

If structural diagonal bracing has been mounted, it is recommended to lower the stacking tower via the head spindles.

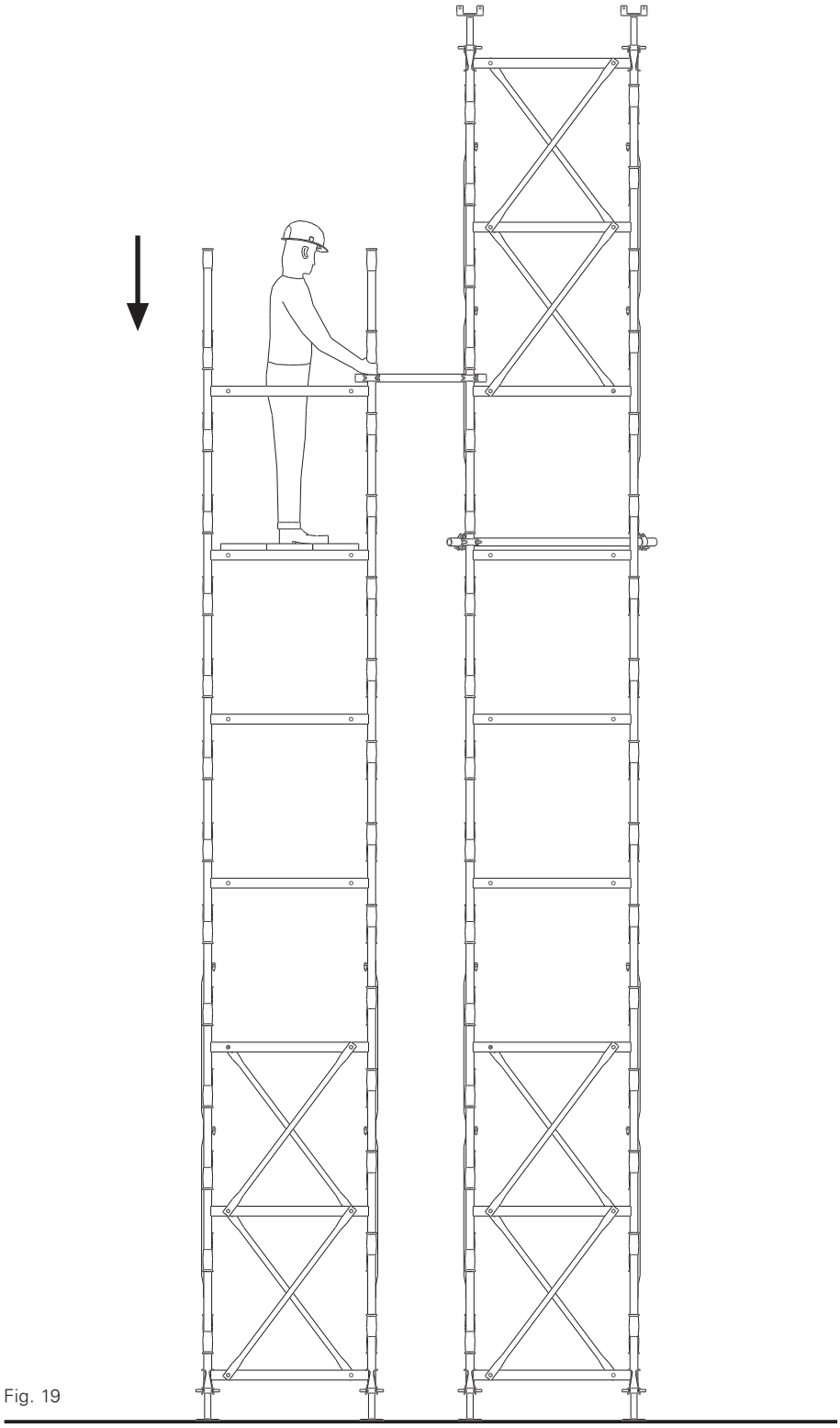


Fig. 19

A5 Calculating material quantities

Required individual components for ST 100 tower heights from 1.80 up to 22.29 m

Tower height [m] min. – max.	Stacking frame	Diagonal bracing (if required)	Weight [kg] with diagonal bracing	Weight [kg] without diagonal bracing
1,80 – 2,29	4	4	121,50	112,38
2,30 – 2,79	6	6	139,70	126,02
2,80 – 3,29	8	8	157,90	139,66
3,30 – 3,79	10	10	176,10	153,30
3,80 – 4,29	12	12	194,30	166,94
4,30 – 4,79	14	14	212,50	180,58
4,80 – 5,29	16	16	230,70	194,22
5,30 – 5,79	18	18	248,90	207,86
5,80 – 6,29	20	20	267,10	221,50
6,30 – 6,79	22	22	285,30	235,14
6,80 – 7,29	24	24	303,50	248,78
7,30 – 7,79	26	26	321,70	262,42
7,80 – 8,29	28	28	339,90	276,06
8,30 – 8,79	30	30	368,00	
8,80 – 9,29	32	32	386,20	
9,30 – 9,79	34	34	404,40	
9,80 – 10,29	36	36	422,60	
10,30 – 10,79	38	38	440,80	
10,80 – 11,29	40	40	459,00	
11,30 – 11,79	42	42	477,20	
11,80 – 12,29	44	44	495,40	
12,30 – 12,79	46	46	513,60	
12,80 – 13,29	48	48	531,80	
13,30 – 13,79	50	50	550,00	
13,80 – 14,29	52	52	568,20	
14,30 – 14,79	54	54	586,40	
14,80 – 15,29	56	56	604,60	
15,30 – 15,79	58	58	622,80	
15,80 – 16,29	60	60	641,00	
16,30 – 16,79	62	62	669,10	
16,80 – 17,29	64	64	687,30	
17,30 – 17,79	66	66	705,50	
17,80 – 18,29	68	68	723,70	
18,30 – 18,79	70	70	741,90	
18,80 – 19,29	72	72	760,10	
19,30 – 19,79	74	74	778,30	
19,80 – 20,29	76	76	796,50	
20,30 – 20,79	78	78	814,70	
20,80 – 21,29	80	80	832,90	
21,30 – 21,79	82	82	851,10	
21,80 – 22,29	84	84	869,30	

Basic components for all tower heights:

2 x Base-Head Frame ST 100
4 x Base Spindle TR 38-70/50
4 x Adjustable Crosshead Spindle TR 38-70/50
or
4 x Crosshead Spindle TR 38-70/50

8 x Safety Straps (if required)

Complete tower heights including base and head spindles.
For tower heights:
> 8.30 m 1 Horizontal Brace
> 16.30 m install 2 Horizontal Braces (see A3 vertical assembly).
The weight specifications are with Crosshead Spindle TR 38-70/50.

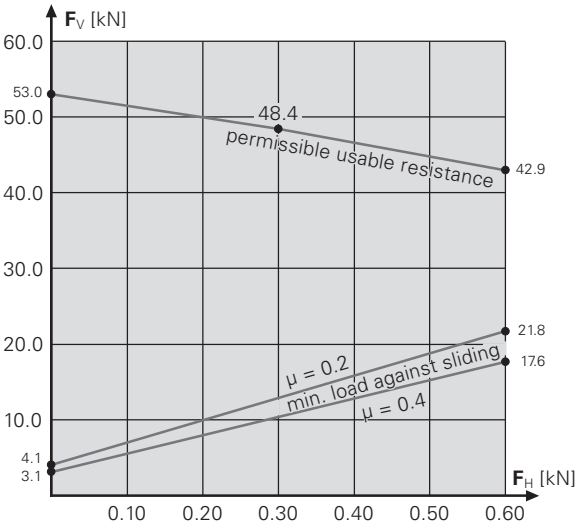
Free standing, with Pivoting Head Spindle

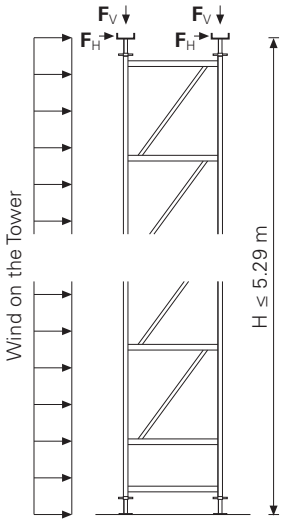
Application Conditions (D1)

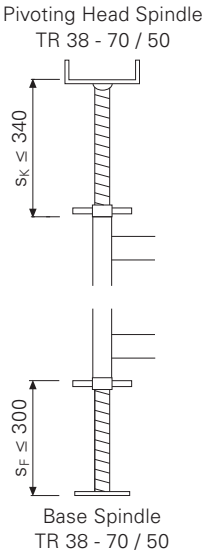
– free standing
– with wind
– with diagonal bracing
– H ≤ 5.29 m

Type Test
No. II B 3-543-236

Perm. Leg Load



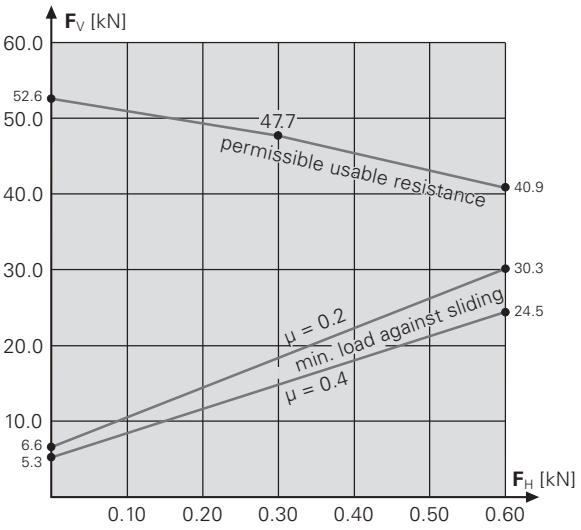


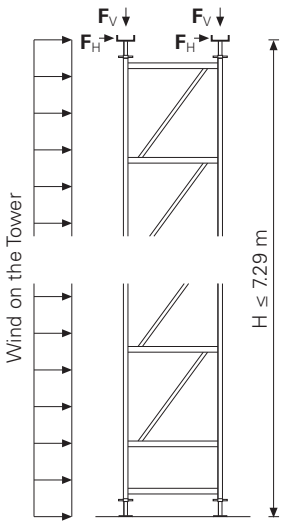


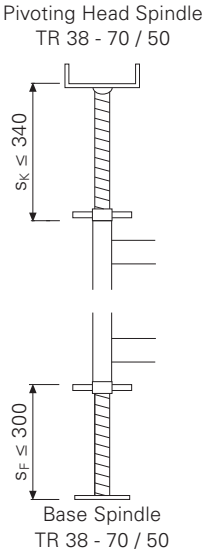
Application Conditions (D2)

– free standing
– with wind
– with diagonal bracing
– H ≤ 7.29m

Perm. Leg Load







Restrained at the Top, with Pivoting Head Spindle

Application Conditions (D3)

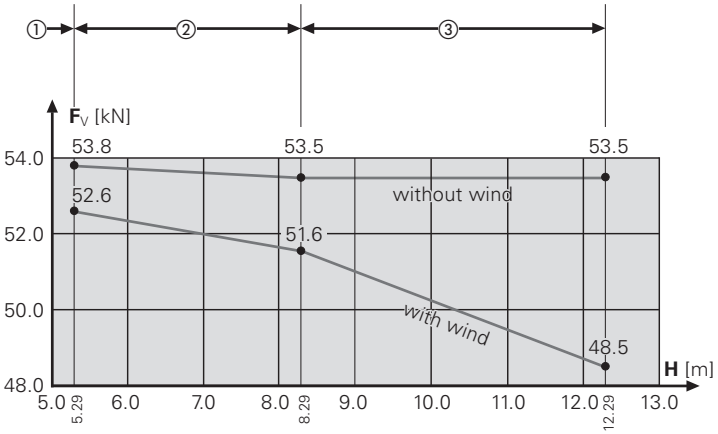
– restrained at the top
– with/without wind
– ① H ≤ 5.29 m
  1 diagonal brace at the top and bottom

② 5.29 m < H ≤ 8.29 m
  2 diagonal braces at the top and bottom

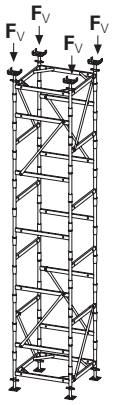
③ 8.29 m < H ≤ 12.29 m
  3 diagonal braces at the top and bottom
  plus horizontal cross strut at H/2

Type Test
No. II B 3-543-236

Perm. Leg Load

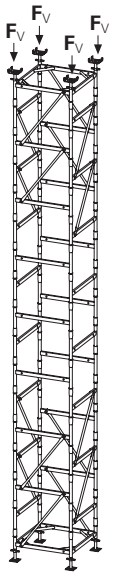


① **53.8 kN / Leg**
without wind
52.6 kN / Leg
with wind



H ≤ 5.29 m:
1 diagonal brace at the top and bottom.

② **53.5 kN / Leg**
without wind
51.6 kN / Leg
with wind



H 5.29 m – 8.29 m:
2 diagonal braces at the top and bottom.

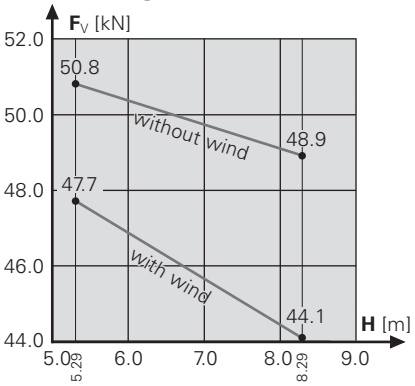
③ **53.5 kN / Leg**
without wind
48.5 kN / Leg
with wind

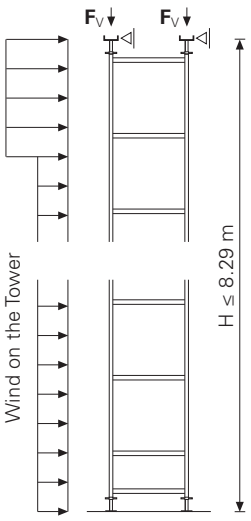
H 8.29 m – 12.29 m:
3 diagonal braces at the top and bottom.
Plus horizontal cross strut at H/2.

Application Conditions (D4)

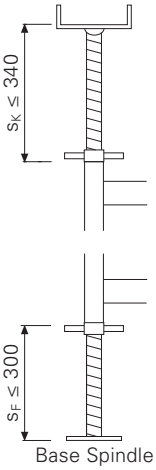
– restrained at the top
– without diagonal bracing
– with/without wind
– H ≤ 8.29 m

Perm. Leg Load





Pivoting Head Spindle
TR 38 - 70 / 50



Base Spindle
TR 38 - 70 / 50

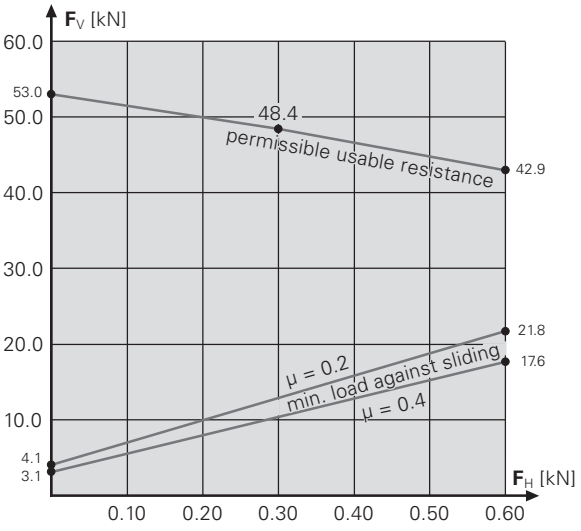
Free standing, with Pivoting Head Spindle

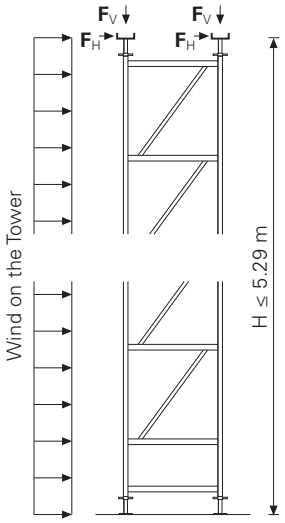
Application Conditions (D1)

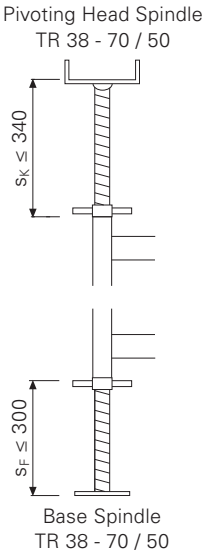
– free standing
– with wind
– with diagonal bracing
– H ≤ 5.29 m

Type Test
No. II B 3-543-236

Perm. Leg Load



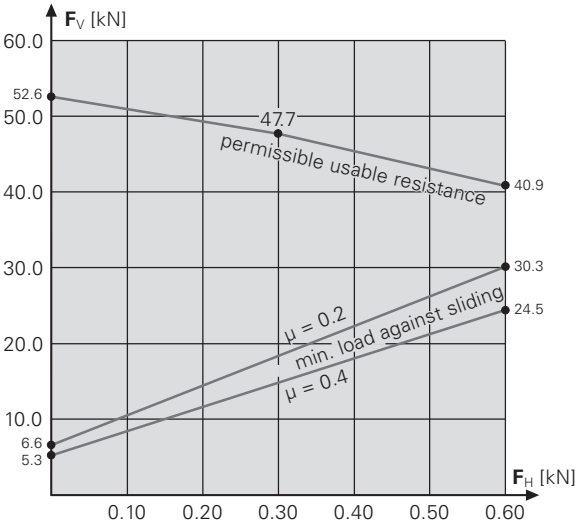


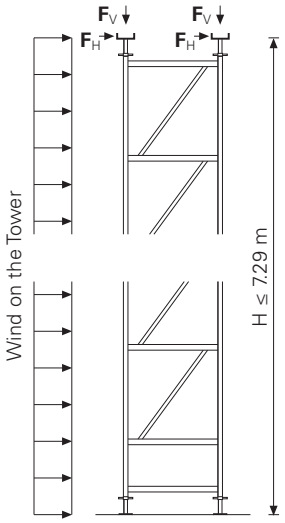


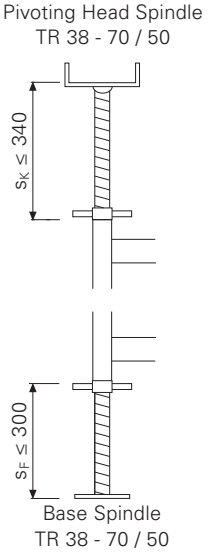
Application Conditions (D2)

– free standing
– with wind
– with diagonal bracing
– H ≤ 7.29 m

Perm. Leg Load







Restrained at the Top, with Pivoting Head Spindle

Application Conditions (D3)

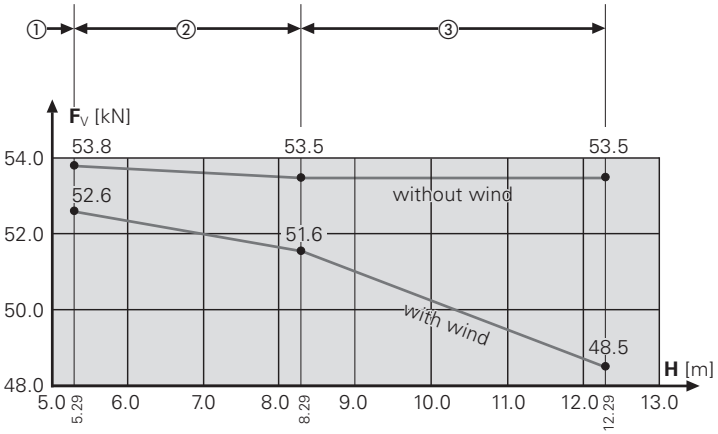
– restrained at the top
– with/without wind
– ① H ≤ 5.29 m
  1 diagonal brace at the top and bottom

② 5.29 m < H ≤ 8.29 m
  2 diagonal braces at the top and bottom

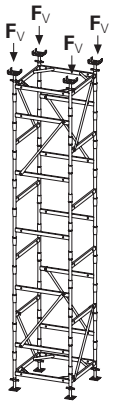
③ 8.29 m < H ≤ 12.29 m
  3 diagonal braces at the top and bottom
  plus horizontal cross strut at H/2

Type Test
No. II B 3-543-236

Perm. Leg Load

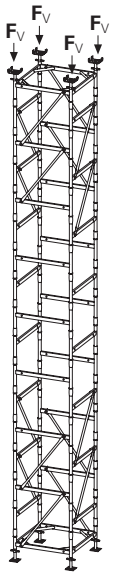


① **53.8 kN / Leg**
without wind
52.6 kN / Leg
with wind



H ≤ 5.29 m:
1 diagonal brace at the top and bottom.

② **53.5 kN / Leg**
without wind
51.6 kN / Leg
with wind



H 5.29 m – 8.29 m:
2 diagonal braces at the top and bottom.

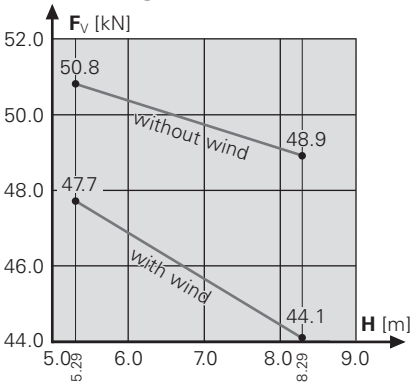
③ **53.5 kN / Leg**
without wind
48.5 kN / Leg
with wind

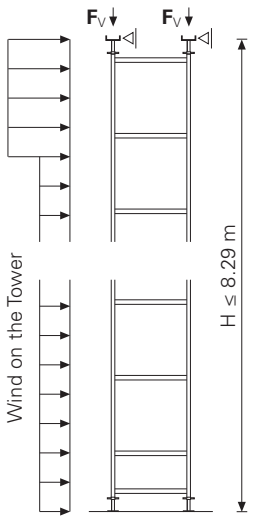
H 8.29 m – 12.29 m:
3 diagonal braces at the top and bottom.
Plus horizontal cross strut at H/2.

Application Conditions (D4)

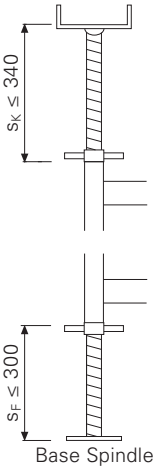
– restrained at the top
– without diagonal bracing
– with/without wind
– H ≤ 8.29 m

Perm. Leg Load





Pivoting Head Spindle
TR 38 - 70 / 50

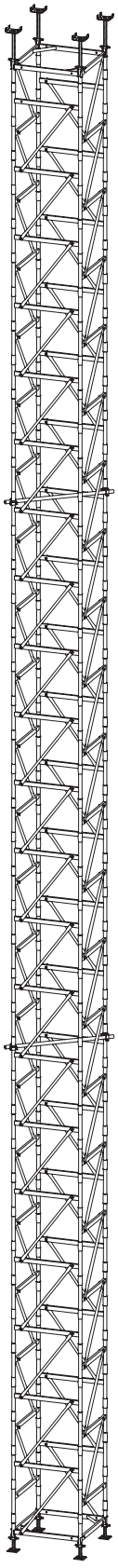


Base Spindle
TR 38 - 70 / 50

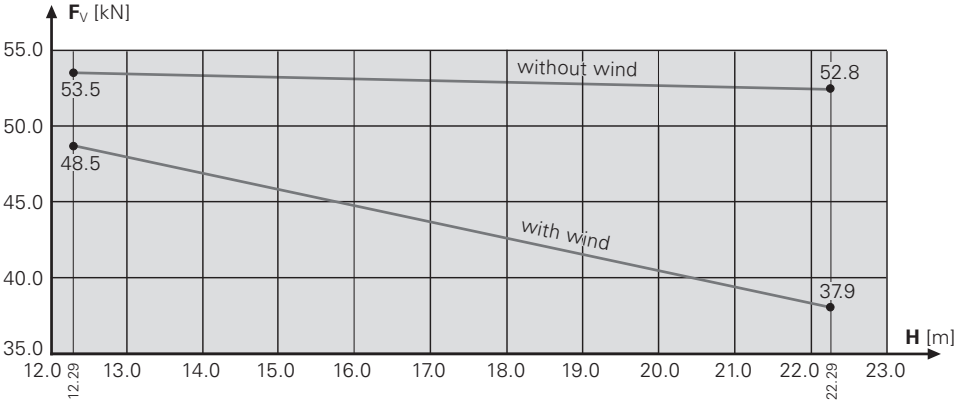
Restrained at the Top, 12.29 m ≤ H ≤ 22.29 m, with Pivoting Head Spindle

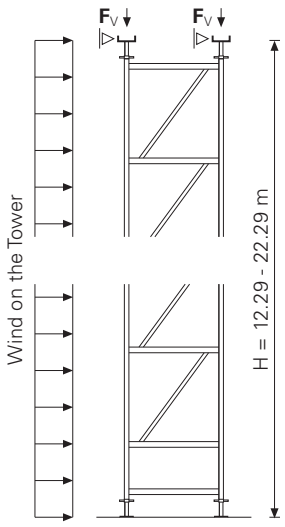
Amendment for (D3)

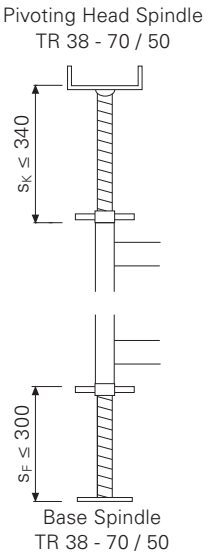
– restrained at the top
– with/without wind
– with diagonal bracing all around
– 2 horizontal cross struts at every H/3



Perm. Leg Load



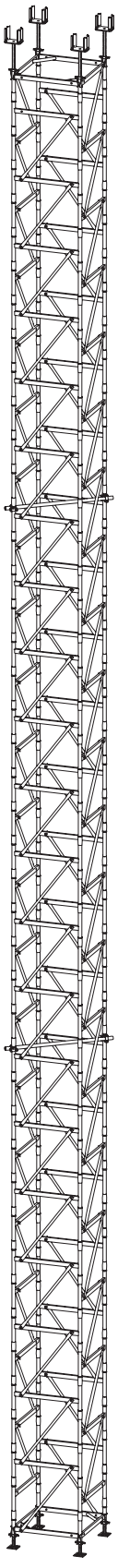




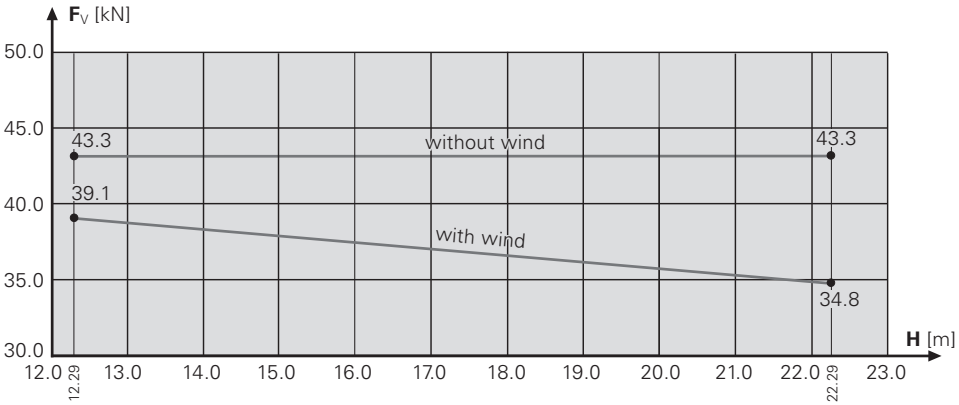
Restrained at the Top, 12.29 m ≤ H ≤ 22.29 m, with Crosshead Spindle

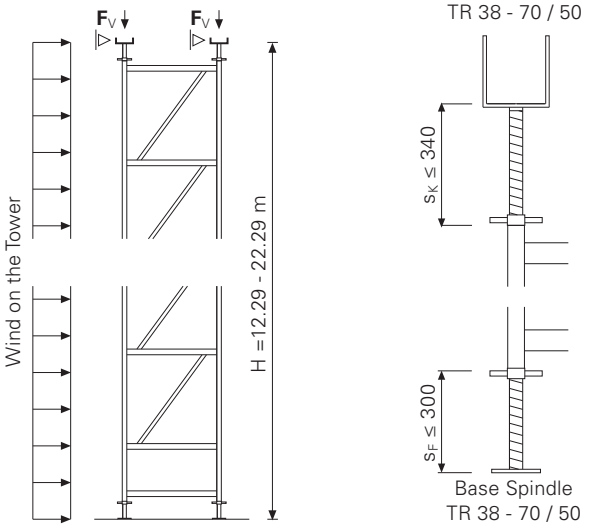
Amendment for (D7)

– restrained at the top
– with/without wind
– with diagonal bracing all around
– 2 horizontal cross struts at every H/3

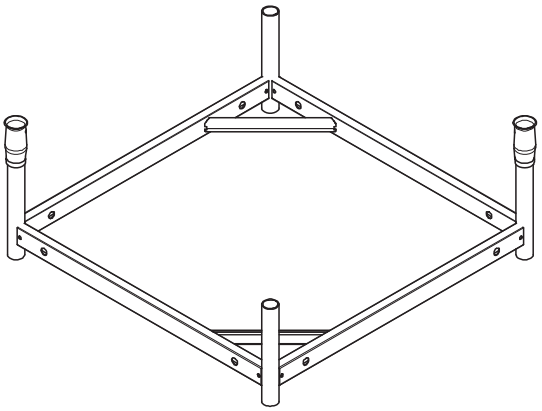


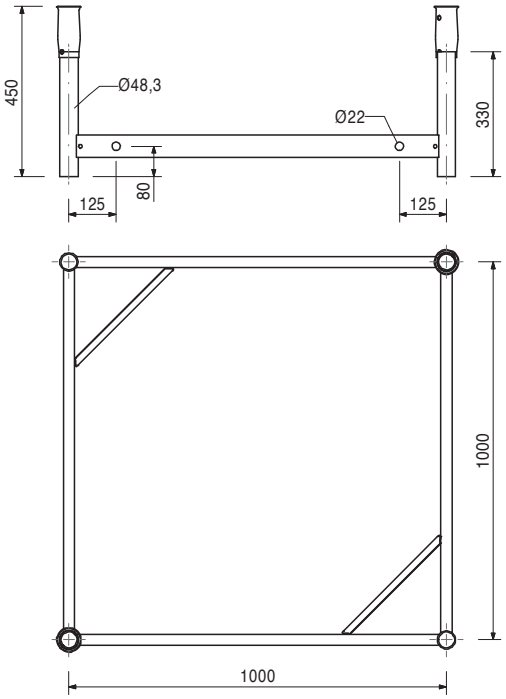
Perm. Leg Load



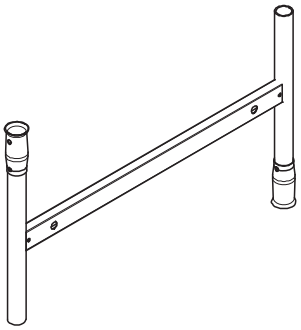


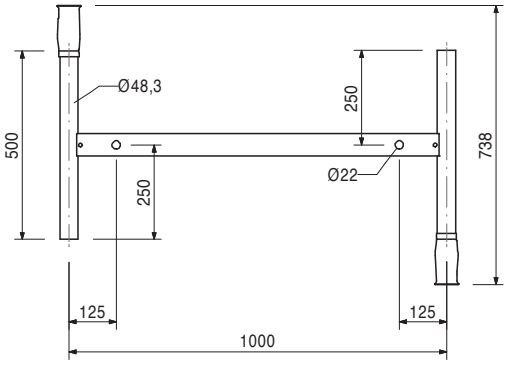
Item no.	Weight kg	
019900	16,600	**Base Frame ST 100, galv.** Base- and Headframe for ST 100 Stacking Tower.



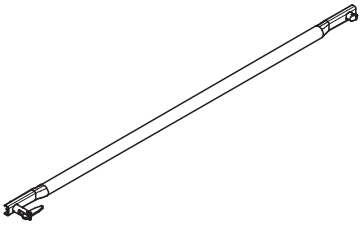


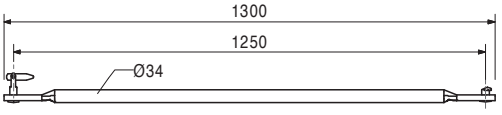
019910	6,820	**Stacking Frame ST 100, galv.** Stacking frame for St100. 4 required per metre rise.



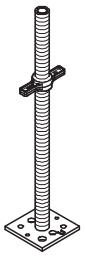


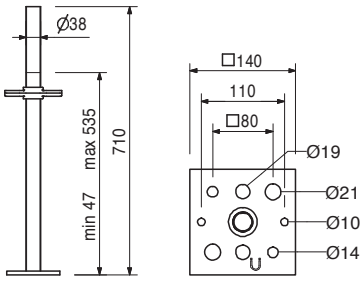
019940	2,290	**Diagonal Brace ST 100, galv.** Diagonal for ST 100. The number required depends on the static system.



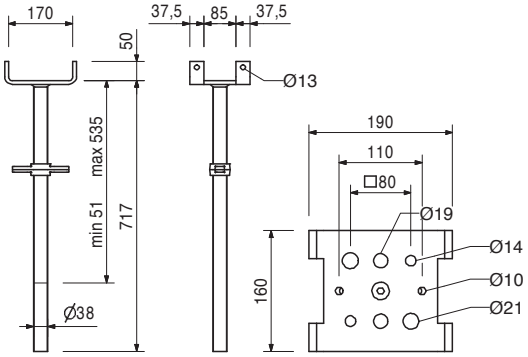


Item no.	Weight kg	
019780	5,160	**Base Spindle TR 38-70/50** For more heavily loaded shoring. With captive swivel nut.

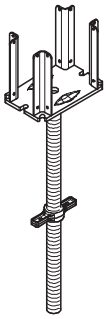


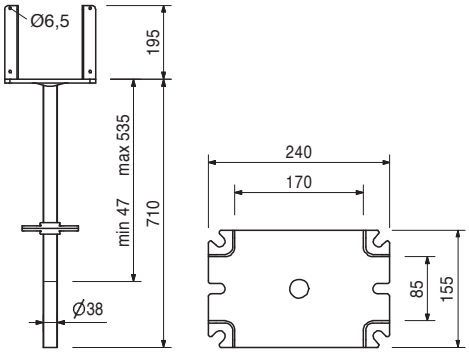


019790	6,360	**Pivoting Head Spindle TR 38-70/50** Head plate tilting in any direction by 4.4°. With captive swivel nut.

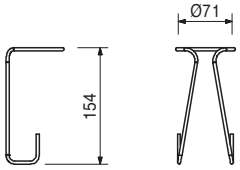


019950	7,690	**Crosshead Spindle Tr 38-70/50** Head spindle providing stable support for one or two GT 24 or VT 20 girders. With captive swivel nut.

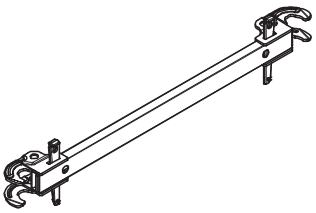


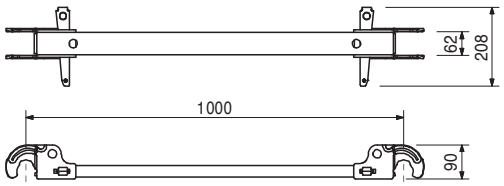


Item no.	Weight kg	
019800	0,063	**Safety Strap Spindle ST 100** To secure spindles into the frames when moving with the crane.

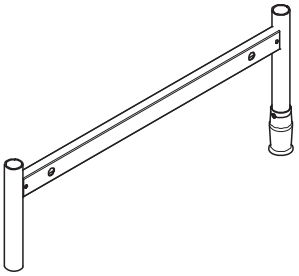


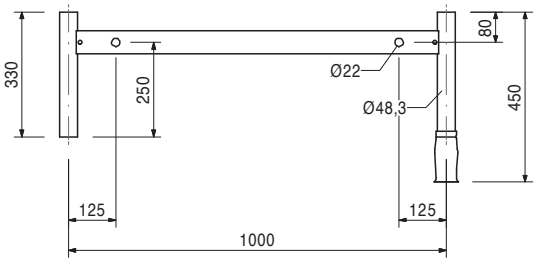
019920	6,180	**End Waler ST 100, galv.** To brace the End Frames ST100. 2 per end waler level.



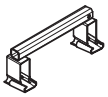


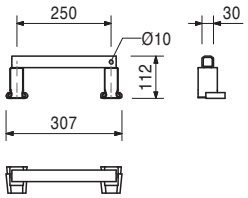
019930	5,260	**End Frame ST 100, galv.** To be used instead of the Base Frame ST100. In combination with End Waler ST 100. 2 per end waler level.



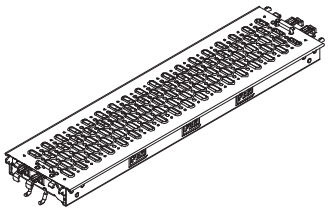


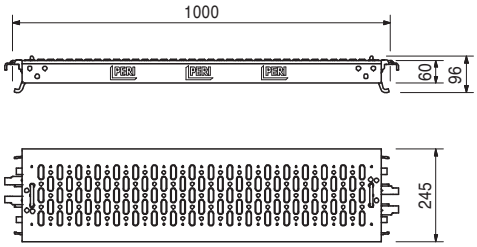
019810	1,010	**Connector ST 100, galv.** For connecting additional legs to the ST 100. Required where heavy point loads are to be supported. 2 per additional frame and metre rise.





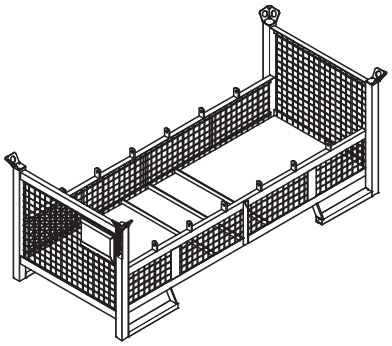
Item no.	Weight kg		X	perm. p [kN/m²]
106092	6,960	**Industrial Deck UDI 25 x 100**	1000	10,0

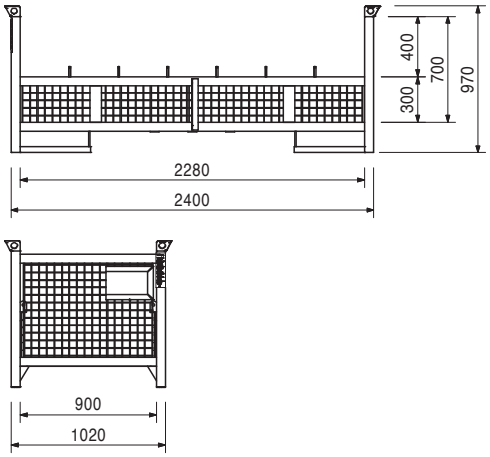




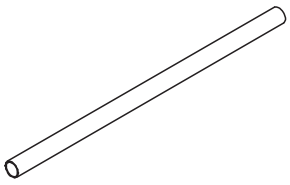
065050	124,000	**Pallet ST 100-2, galv.** For stacking and transportation of ST 100 Stacking Tower components. Capacity: 84 Stacking Frames + Base- and Head Spindles + Diagonal Braces.

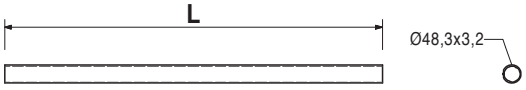
Safety Instruction
Load carrying capacity 1.0 t.
Follow Instruction for Use!



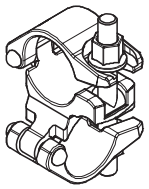


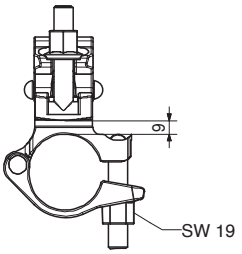
			L
		Scaffold Tube Steel Ø 48,3 x 3,2	
026411	3,550	**Scaffold Tube Steel Ø 48,3 x 3,2, l = 1,0 m**	1000
026412	7,100	**Scaffold Tube Steel Ø 48,3 x 3,2, l = 2,0 m**	2000
026413	10,650	**Scaffold Tube Steel Ø 48,3 x 3,2, l = 3,0 m**	3000
026414	14,200	**Scaffold Tube Steel Ø 48,3 x 3,2, l = 4,0 m**	4000
026419	17,750	**Scaffold Tube Steel Ø 48,3 x 3,2, l = 5,0 m**	5000
026418	21,600	**Scaffold Tube Steel Ø 48,3 x 3,2, l = 6,0 m**	6000
026415	3,550	**Scaffold Tube Steel Ø 48,3 x 3,2, Special Length**	
026417	,000	**Cutting Costs Scaffold Tubes**	



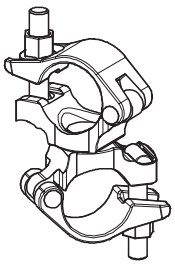


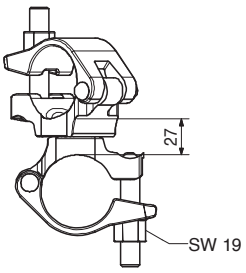
Item no.	Weight kg		
017020	1,120	**Standard Coupling NK 48/48, galv.** For scaffold tubes Ø 48 mm.	**Note** Spanner size SW 19.





017010	1,400	**Swivel Coupling DK 48/48, galv.** For scaffold tubes Ø 48 mm.	**Note** Spanner size SW 19.





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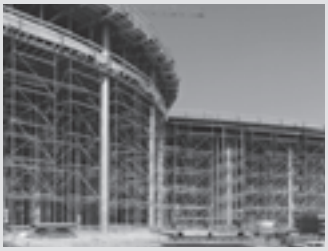

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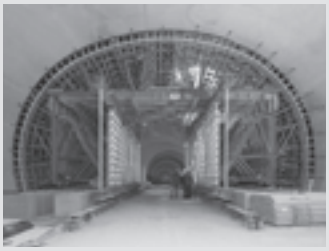

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