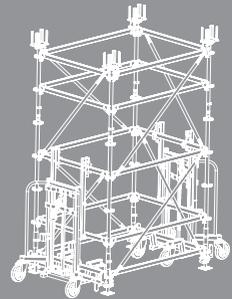


Trolley with Winch

Item no. 019200

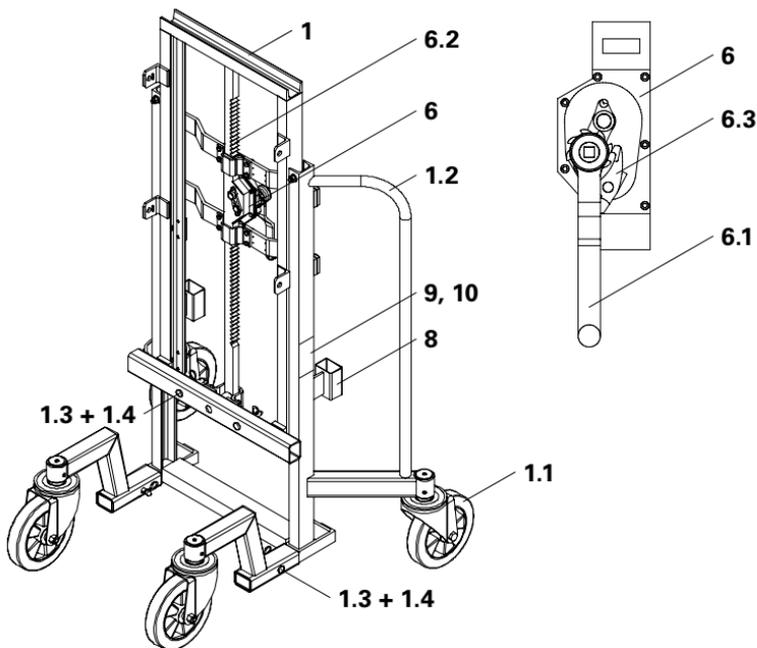
Translation of the Original Instructions for Use – Issue 02/2018

UK Edition 03|2023



Overview

Trolley with Winch



- 1 Basic unit with lifting frame
- 1.1 Wheel
- 1.2 Push handle
- 1.3 Bolt \varnothing 16 x 65/86, galv.
- 1.4 Cotter Pin 4/1, galv.
- 6 Winch with crank
- 6.1 Hand crank
- 6.2 Toothed rack
- 6.3 Locking pawl
- 8 Holder for connectors
- 9 Type plate
- 10 Inspection plate

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Key

Pictogram | Definition



Danger / Warning / Caution



Note



To be complied with



Visual check



Tip



Load-bearing point



Safety helmet



Safety shoes



Safety gloves



Safety glasses

Dimension specifications

Dimensions are usually given in mm.
Other measurement units, e.g. cm, are shown in the illustrations.

Load details are usually given in kg.
Other measurement units, e.g. t, are shown in the illustrations.

Conventions

- Instructions are numbered with:
1., 2., 3.
- The result of an instruction is shown by: →
- Position numbers are clearly provided for the individual components and are given in the drawing, e.g. **1**, in the text in brackets, for example (1).
- Multiple position numbers, i.e. alternative components, are represented with a slash: e.g. **1 / 2**.

Arrows in the illustrations

→ Arrow representing an action

Safety instructions

Safety instruction categories

The safety instructions alert site personnel to the risks involved and provide information on how to avoid these risks. Safety instructions are featured at the beginning of the section or ahead of the instructions, and are highlighted as follows:



Danger

This sign indicates an extremely hazardous situation which, if not avoided, will result in death or serious injury.



Warning

This sign indicates a hazardous situation which, if not avoided, could result in death or serious injury.



Caution

This sign indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



Information

This sign indicates warning of situations whereby failure to observe the information can result in material damage.

Set-up of the safety instructions



Signal word

Type and source of the danger!
Consequences of non-compliance.
⇒ Avoidance measures.

Safety instructions

General

When using the PERI Trolley with Winch, the Instructions for Use and markings are to be taken into consideration!

Deviations from the standard configuration are only permitted after a further risk assessment has been carried out by the contractor.

On the basis of this risk assessment, appropriate measures for working and operational safety as well as stability are to be determined.

The contractor must ensure that the Instructions for Use provided by PERI are available at all times for the users and that they are fully understood!

The contractor can only assign those persons to independently use the Trolley with Winch who are actually familiar with the task!

The PERI Trolley with Winch is to be used accordingly so that persons are never put at risk in any way!

The maximum load-bearing capacity of the PERI Trolley with Winch must not be exceeded!

All persons using the Trolley with Winch must check it before use for obvious defects (e.g. deformations, cracks, fractures, incomplete labelling) – visual inspection!

Do not use the Trolley with Winch if it is damaged!

The PERI Trolley with Winch may not be used in the case of illegible or missing markings!

The contractor must ensure that the required personal protective equipment required for the assembly, modification or dismantling of the Trolley with Winch is available and is used as intended.

For a better understanding, detailed illustrations are partly incomplete. The safety installations which have possibly not been featured in these detailed drawings must nevertheless be available!

Safety instructions

Product-specific

Ensure loads are evenly balanced when being picked up. Loads must be sufficiently stable both in their form and position so that the load does not move during transportation.

The Trolley with Winch may be used only by those persons who have been sufficiently trained to use it and have also demonstrated their ability to handle the equipment to the official representative of the operator.

All safety installations must be checked before work begins.

When using the Trolley with Winch, loads are to be moved only during calm wind conditions. Safe moving of the elements must be ensured at all times.

Persons are not permitted to be transported on the Trolley with Winch nor the load itself.

Check the functionality of the winch before every use. Make sure the securing pawls function correctly.

Always lift up or set down loads smoothly without any jerking.

Before the moving procedure begins, remove or secure all loose parts.

Before releasing the load from the PERI Trolley with Winch, ensure that the load is in a safe and secure position.

The PERI Trolley with Winch is to be positioned and secured to ensure that it cannot tip over, fall or slide away.

Do not use the PERI Trolley with Winch in potentially explosive conditions.

Always use the PERI Trolley with Winch in pairs! When lifting and lowering, ensure that the load is not tilted.

Apart from the operator, ensure that no other persons are within the range of movement.

Do not leave loaded Trolley with Winches unattended at any time.

The contractor must ensure that no unauthorized person operates the Trolley with Winch.

Intended use

PERI products have been designed for exclusive use in the industrial and commercial sectors by suitably trained personnel only!

These Instructions for Use contain information for ensuring correct handling and application.

The product described here is used exclusively for horizontally moving slab tables and shoring towers of the following PERI systems:

- MULTIPROP System,
- PERI UP Flex Shoring Tower,
- PERI UP Flex Shoring Tower Plus,
- PERI UP Flex Shoring Tower MDS K,
- PD 8 / PD 8 Eco.

The corresponding Connectors are used for each respective application.

When moving, the Trolley with Winch is to be used in pairs on a tower / table.

The product described here corresponds to the relevant provisions and regulations of the current EC Machinery Directive 2006/42/EC.

These Instructions for Use serve as the basis for the project-related risk assessment as well as instructions for the provision and use of the system by the contractor. However, they do not replace them.

The Trolley with Winch is to be used at an ambient temperature from -20 °C to +60 °C.

Technical data

Trolley with Winch

Permissible load-bearing capacity in centre 1000 kg

Dimensions without Connectors

Width	1.261 m
Length	1.130 m
Min. height	1.540 m
Max. height	2.280 m
Weight	162.0 kg

Total weight with Connectors

Connector MP - Trolley	176.3 kg
Connector PERI UP - Trolley	198.6 kg
Connector Rosett - Trolley	183.5 kg
Connector Rosett Plus - Trolley	183.2 kg
Connector PD 8 - Trolley	173.0 kg

Instructions on use

The use in a way not intended or deviating from the intended use according to the Instructions for Use represents a misapplication with a potential safety risk.

Changes to PERI components are not permitted.

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

Target groups

Contractors

These Instructions for Use are intended for contractors who either

- assemble, modify and dismantle the PERI products, or
- use them, e.g. for concreting, or
- who have them used, e.g. for forming operations.

Construction site coordinator

The Safety and Health Protection Coordinator*

- is appointed by the client,
- must identify potential hazards during the planning phase,
- determines measures that provide protection against risks,
- creates a safety and health plan,
- coordinates the protective measures for the contractor and site personnel so that they do not endanger each other,
- monitors compliance with the protective measures.

Competent persons

Due to the specialist knowledge gained from professional training, work experience, and recent professional activity, the competent person has a reliable understanding of safety-related issues and can correctly carry out inspections. Depending on the complexity of the test to be undertaken, e.g. scope of testing, type of testing or the use of certain measuring devices, a range of specialist knowledge is necessary.



- **When handling our products, ensure that the relevant national guidelines and regulations in the respective current version are complied with!**
- **If no country-specific regulations are available, it is recommended to proceed according to German guidelines and regulations.**

* Valid in Germany: Regulations for Occupational Health and Safety on Construction Sites 30 (RAB 30)

Qualified persons

PERI products may only be assembled, modified or dismantled by persons who are suitably qualified to do so. For the work to be carried out, the qualified persons must have received instructions** covering at least the following points:

- Explanation of the plan for the assembly, modification or dismantling of the PERI product in an understandable form and language.
- Description of measures in order to safely assemble, modify or dismantle the PERI product.
- Designation of the preventive measures to avoid the risk of persons and objects falling.
- Designation of the safety precautions in the event of changing weather conditions which could adversely affect the safety of the PERI product concerned as well as the personnel.
- Details regarding the permissible loads.
- Description of any other risks that are associated with the assembly, modification or dismantling procedures.

** Instructions are given by the contractor himself or a competent person selected by him.

Storage and transportation

Do not drop the Trolley with Winch.

Ensure that the Trolley with Winch is correctly stored and transported so that its position cannot be unintentionally changed.

Use suitable lifting equipment for transporting the Trolley with Winch.

Only remove the lifting equipment if the position of the Trolley with Winch can no longer be unintentionally changed.

When moving the Trolley with Winch, ensure that components are picked up and set down so that unintentional falling over, falling apart, sliding or rolling is avoided.

The Trolley with Winch is to be moved and set down on clean, level and sufficiently load-bearing surfaces only.

PERI products must be protected against the effects of the weather and aggressive substances!

The areas on the jobsite used to move the Trolley with Winch must be free of obstacles, tripping hazards, recesses and offsets as well as being slip-resistant.

For transportation, the surface used must have sufficient load-bearing capacity.

Additional technical documentation

- Instructions for Assembly and Use:
 - MULTIPROP System
 - PERI UP Flex Shoring Tower
 - PERI UP Flex Shoring Tower MDS K
 - PD 8 Slab Table/Shoring Tower

Cleaning and maintenance instructions

The Trolley with Winch has been designed for long-term use on construction sites.

In order to ensure a cost-effective, technical and safe use over a long period, it is important to take a value-preserving approach.

Use PERI original components as spare parts.

Identification markings



Danger

Risk of injury!

⇒ The Trolley with Winch is not to be used if the type plate and/or inspection sticker are unreadable or missing.

Arrange an inspection to be carried out by a competent person and then attach new type plate and/or inspection plate!

Type plate

Markings comply with the requirements of the Machine Directive 2006/42/EC. (Fig. 1)

Inspection plate

It documents the next inspection date. Example of PERI inspection plate: September 2019. (Fig. 2)



Fig. 1



Fig. 2

Inspections

1. General

The procedure described in this section is based on the current German regulations for testing and inspections. The points listed form the minimum requirements for the inspection.

The respective regulations of the individual states and countries where this product is used must be taken into account.

If no country-specific regulations are available, it is recommended to proceed according to German guidelines and regulations.

The contractor is responsible for determining the type, scope and periods of the required inspections relating to the provision of the lifting accessory. These inspections serve to systematically identify and remedy any safety-related defects.

2. Purpose

Due to the check carried out before initial operations as well as regularly occurring inspections of the Trolley with Winch, it can be ensured that operational and functional reliability is guaranteed.

3. Responsibility

The contractor must ensure that every Trolley with Winch is only put into operation after having been inspected by a qualified person.

4. Inspection

4.1 Safety check

It must be verified that all defects have been rectified and any non-functioning products have been replaced. The inspection includes a visual and functional check.

4.2 Visual check

- Deformation, wear and lengthening of all components.
- Damage due to corrosion.
- Mechanical damage.
- Check bolts, lifting beam hooks and chain slings for signs of damage.
- Availability of all parts.
- Cracks on welding seams, chain links, load hooks, and individual components.
- Chain elongation (with chain check gauge).
- Signs of impermissible heating or contact with fire.
- Markings must be legible.

4.3 Functional check

- Free and easy movement of moving parts.
- Adjust minimum and maximum lengths.
- Holes are free of concrete residue.
- Eyes or shackles for fastening purposes are usable.
- Safety pawls and safety hooks engage.

Implementation of anything beyond the usual scope of inspection is subject to the discretion of the qualified person and can extend to additional checks.

4.4 Measures

If any defects are determined during the safety check, they must be eliminated according to the instructions provided by the qualified person. A new inspection is to be subsequently carried out.

4.5 Inspection before starting work operations

- Check load-bearing points and their respective permissible load-bearing capacity.
- Check the Trolley with Winch for any signs of damage.
- Check availability of all parts.
- Check the validity of the inspection plate.

Personal protective equipment



Warning

Risk of injury!

⇒ Personal protective equipment is to be worn during moving procedures and all set up and modification work.



Load-bearing capacity

Perm. load-bearing capacity of the winch: 1.0 t

(Fig. 3)



Note

Material damage!

- ⇒ Do not use the Trolley with Winch for releasing loads!
- ⇒ Slab tables and shoring towers must be spindled free of loads before being picked up!

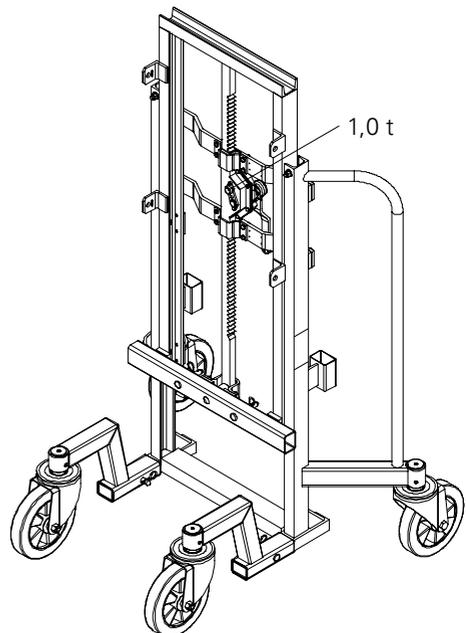


Fig. 3

Permissible weights and heights

Prerequisites in the direction of travel:

MULTIPROP \geq MRK 137.5

PERI UP Flex Shoring Tower \geq UH Plus 150

PERI UP Flex Shoring Tower Plus \geq UH Plus 150

Total weight Tower / Table	Longitudinal direction of travel Table height up to	Transverse direction of travel Table height up to
0 – 300 kg	600 cm	600 cm
301 – 400 kg	700 cm	650 cm
401 – 500 kg	800 cm	700 cm
501 – 600 kg	800 cm	700 cm
601 – 800 kg	800 cm	650 cm
801 – 1000 kg	750 cm	600 cm
1001 – 1200 kg	700 cm	550 cm
1201 – 1400 kg	650 cm	550 cm
1401 – 1600 kg	650 cm	500 cm
1601 – 2000 kg	600 cm	500 cm

Table 1

Prerequisites in the direction of travel:

PERI UP Flex Shoring Tower MDS K \geq UH Plus 150

Total weight Tower / Table	Longitudinal direction of travel Table height up to	Transverse direction of travel Table height up to
201 – 300 kg	400 cm	300 cm
301 – 400 kg	550 cm	370 cm
401 – 500 kg	700 cm	430 cm
501 – 600 kg	850 cm	500 cm
601 – 800 kg	850 cm	560 cm
801 – 1000 kg	850 cm	650 cm

Table 2

Prerequisites in the direction of travel:

PD 8 / PD 8 Eco Diagonal Brace \geq DK 150

Weight of table	Longitudinal direction of travel Table height up to	Transverse direction of travel Table height up to
0 – 300 kg	300 cm	250 cm
301 – 400 kg	400 cm	300 cm
401 – 500 kg	500 cm	350 cm
501 – 600 kg	600 cm	400 cm
601 – 2000 kg	670 cm	500 cm

Table 3

MULTIPROP

Permissible MRK Frames for tables and towers

Aluminium frame	Perm. lifting capacity
MRK 296	350 kg
MRK 266 – 225	440 kg
MRK 201.5	560 kg

Table 4

Steel frame	Perm. lifting capacity
MRK 150	880 kg
MRK 137.5	920 kg

Table 5



Warning

Risk of injury!

⇒ Do not exceed the perm. load-bearing capacity of 1 t per Trolley with Winch.

Calculation example:

The slab table is picked up by the Trolley with Winch on the MRK Frame 150 and moved.

Slab table:	ca. 15 m ²
MULTIPROP Tower 6.0 m	8x MP 350
	6x MRK 150
	6x MRK 296

Table weight:	15 m ² x 40 kg/m ²	= 600.0 kg
Tower weight:	8x 19.5 kg (MP 350)	= 156.0 kg
	6x 16.3 kg (MRK 150)	= 98.0 kg
	6x 14.9 kg (MRK 296)	= 89.0 kg
Total weight:	<hr/>	= 943 kg
Total weight / Side:		471.5 kg

Result:

From Table 1:

Table weight 801 – 1000 kg

Longitudinal direction of travel: table height up to 750 cm

Horizontal direction of travel: table height up to 600 cm

From Table 5:

perm. lifting capacity of MRK 150 = 880 kg > 471.5 kg

MULTIPROP System

Connector MP – Trolley

(galv. blue zinc-plated)



Assemble Connectors (2.1, 2.2) so that the safety pawls (2.3) face outwards in each case.

(Fig. 4)

Pos Component

-
- | | |
|------------|-----------------|
| 2.3 | Safety pawl |
| 2.4 | Holding pockets |
| 2.5 | Winged screws |
-

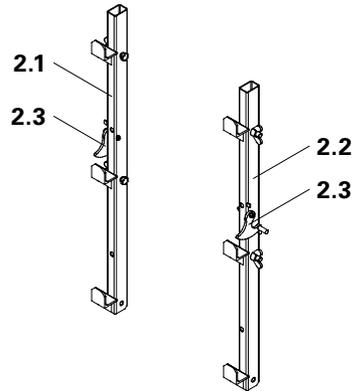


Fig. 4

Assembly

Depending on the Connector height, the Connectors can be mounted at two positions:

Position I: assembly using holes b + c

Connector height: min. 0.40 m, max. 1.60 m

Position II: assembly using holes a + b

Connector height: min. 0.90 m, max. 2.10 m

(Fig. 5)

1. Turn Connectors (2.1 + 2.2) so that the holding pockets (2.4) are pointing upwards and in the direction of moving.
2. Attach to the corresponding holes by means of the winged screws (2.5).
3. Pre-adjust Connector height with the Winch (6).
(Fig. 5)

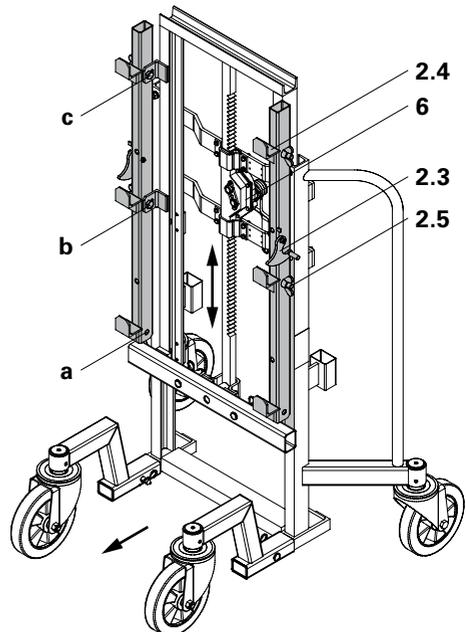


Fig. 5

Trolley with Winch

Translation of the Original Instructions for Use

Lifting of tables and towers



If the 2.10 m max. Connector height of the Trolley with Winch has been exceeded, the support spindles must be screwed back until the frame is securely positioned in the Connector MP.

(Fig. 6)

Alternatively, two additional frames can be mounted at the most suitable height.

(Fig. 7)

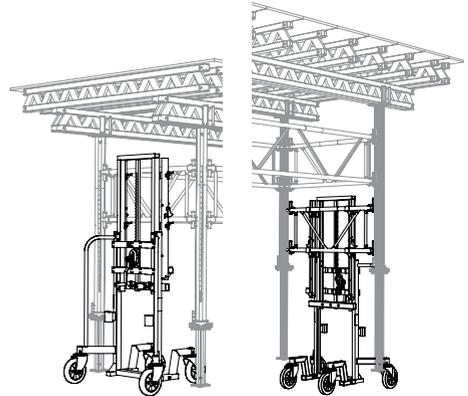


Fig. 6

Fig. 7

Starting operations

1. Push the Trolley with Winch under the bottom MULTIPROP Frame making sure it is positioned centrally.
2. Adjust the Connector height with the winch so that the frame is always supported by 4 holding pockets (2.4). (Pockets a + b or b + c)
3. Raise the load by turning the hand crank (6.1) in a clockwise direction. The safety pawls (2.3) are automatically pushed upwards at the rear, fall in a forward direction and thus secure the frame against lifting. (Fig. 8)



Visual check of the safety pawls.

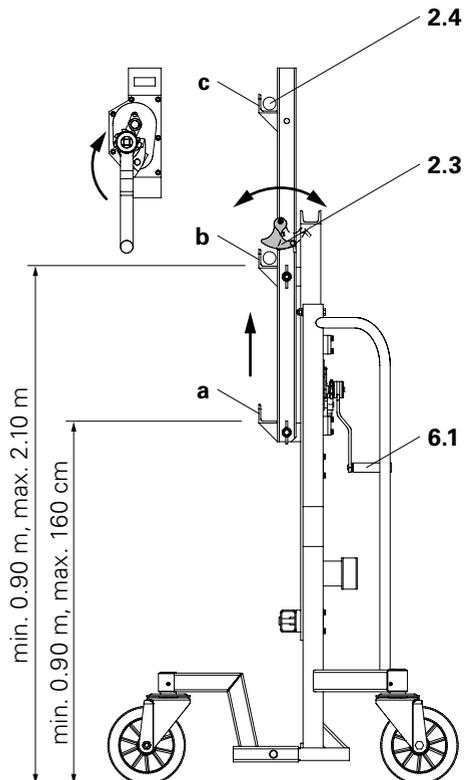


Fig. 8

Trolley with Winch

Translation of the Original Instructions for Use

PERI UP Flex Shoring Towers – Standard Connectors

Connector PERI UP – Trolley

(RAL 3003, ruby red)

Suitable for PERI UP Flex Shoring Tower, Shoring Tower Plus and Shoring Tower MDS K systems with tower widths of 1.25 m and 1.50 m. (Fig. 9)



Assemble Connectors PERI UP (7.1, 7.2) so that the safety pawls (7.3) face outwards in each case. (Fig. 10)

Pos	Component
7.3	Safety pawl
7.4	Holding pockets
7.5	Winged screws
7.7	Support hooks

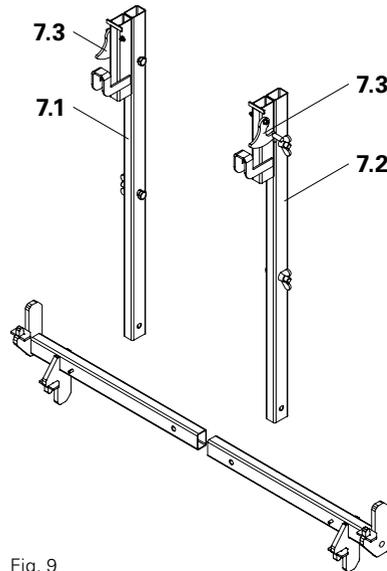


Fig. 9

Assembly of the Connector PERI UP

1. Turn Connectors PERI UP (7.1, 7.2) so that the holding pockets (7.4) are pointing upwards and in the direction of travel.
2. Attach to the corresponding holes by means of the winged screws (7.5).
3. Pre-adjust Connector height with the Winch (6). (Fig. 10)

Assembly of the Telescopic Tube PERI UP

Attach Telescopic Tube PERI UP on the right and left with bolts (1.3) and cotter pins (1.4). The support hooks (7.7) of the telescopic tubes are pointing in the direction of travel. (Fig. 10)

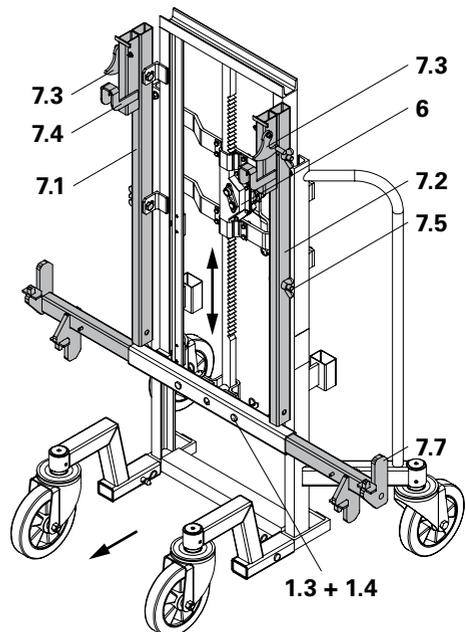


Fig. 10

Situation, e.g. with the PERI UP Flex Shoring Tower MDS K

Connector width $B = 125 \text{ cm}$

Ledger spacing $H = 100 \text{ cm}$

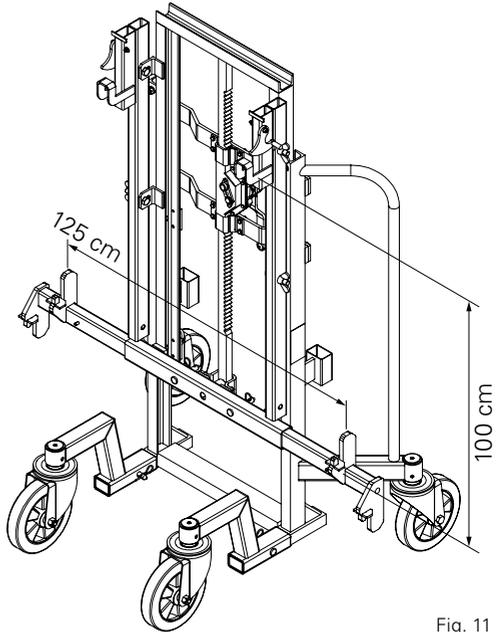


Fig. 11

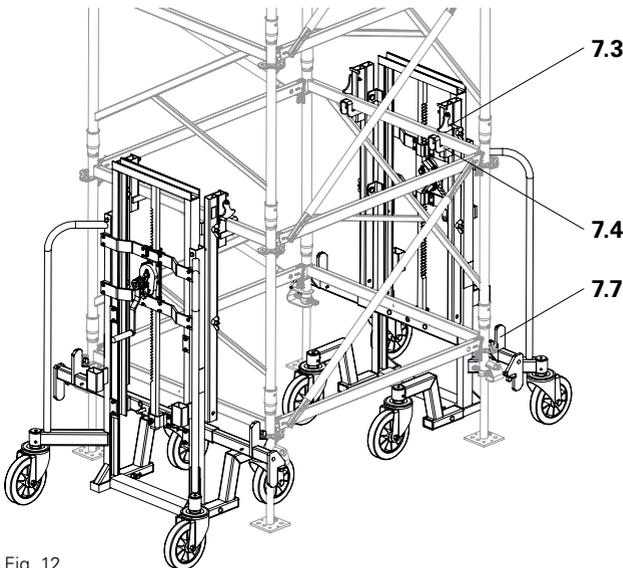


Fig. 12

Trolley with Winch

Translation of the Original Instructions for Use

Situation, e.g. with the PERI UP Flex Shoring Tower

Connector width $B = 150 \text{ cm}$

Ledger spacing $H = 150 \text{ cm}$

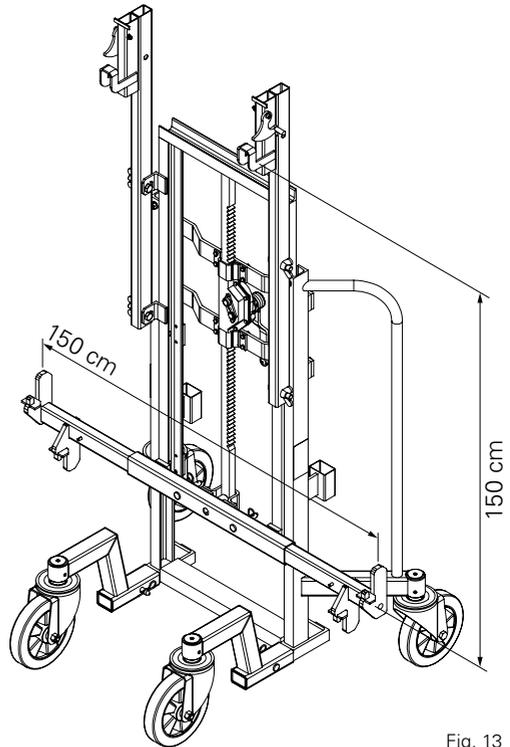


Fig. 13

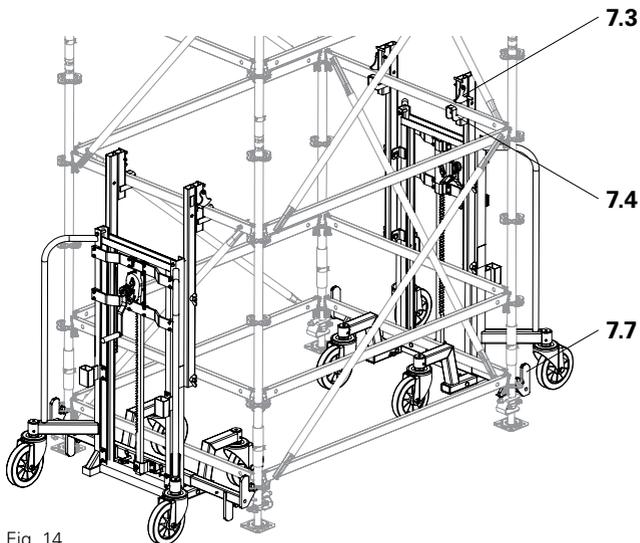


Fig. 14

Situation, e.g. with the PERI UP Flex Shoring Tower Plus

Support width B = 150 cm

Ledger spacing H = 100 cm

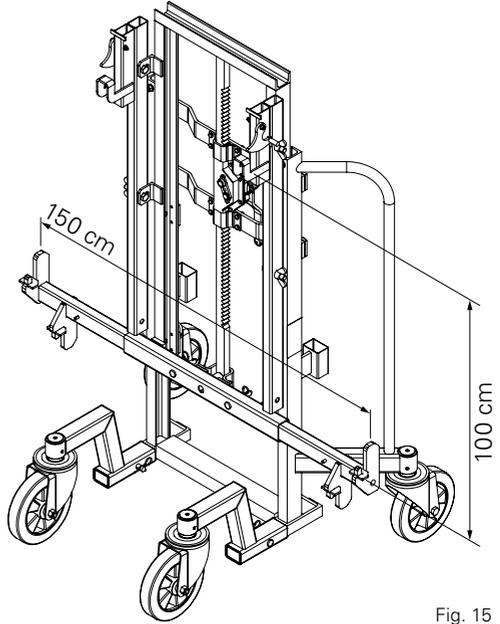


Fig. 15

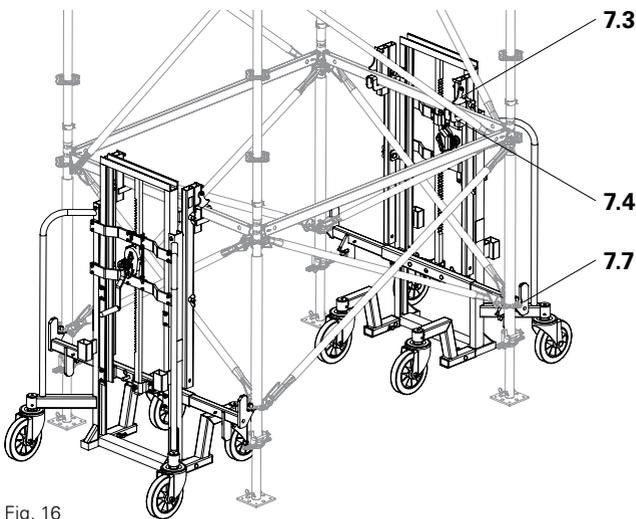


Fig. 16

Trolley with Winch

Translation of the Original Instructions for Use

PERI UP Flex Shoring Towers – Alternative Connectors

Connector Rosett – Trolley

(RAL 9016, traffic white)
For a tower width of 1.50 m.
(Fig. 17)



Assemble Connectors Rosett (3.1, 3.2) so that the safety pawls (3.3) face outwards in each case.
(Fig. 18)

Pos	Component
3.3	Safety pawl
3.4	Holding pockets
3.5	Winged screws
3.7	Support hooks

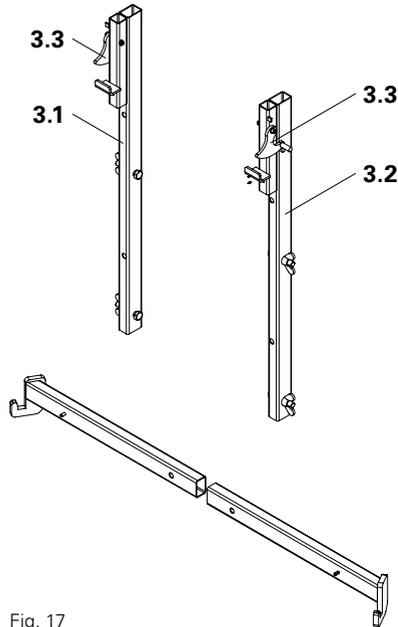


Fig. 17

Assembly of the Connector Rosett

1. Turn Connectors Rosett (3.1, 3.2) so that the holding pockets (3.4) are pointing upwards and in the direction of travel.
2. Attach to the corresponding holes by means of the winged screws (3.5).
3. Pre-adjust Connector height with the Winch (6). (Fig. 18)

Assembly of the Telescopic Tube Rosett

Attach Telescopic Tube Rosett on the right and left using bolts (1.3) and cotter pins (1.4).
The support hooks (3.7) of the telescopic tube are pointing in the direction of travel.
(Fig. 18)

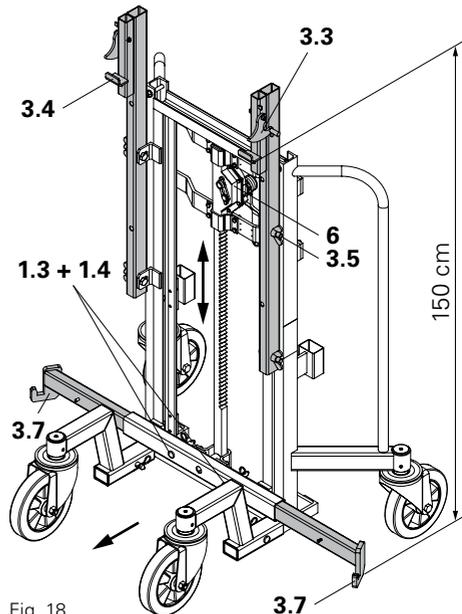


Fig. 18

Trolley with Winch

Translation of the Original Instructions for Use

Lifting of tables and towers

Starting operations

1. Push the Trolley with Winch and the Telescopic Tubes Rosett centrally under the rosetts (3.8).
2. Adjust the height by means of the Winch (6) so that the rosetts are connected to the support hooks (3.7) and the Ledger with the holding pockets (3.4). (Fig. 19b)
3. Raise the load by turning the hand crank (6.1) in a clockwise direction. The safety pawls (3.3) are automatically pushed upwards at the rear, fall in a forward direction and thus secure the Ledger against lifting. (Fig. 19)

PERI UP Flex Spindle Extension:

Min. 8 cm. (Fig. 19)



Visual check of the safety pawls.



Mount the Diagonal (D) in the connector area of the Trolley with Winch on the inside of the tower. (Fig. 19a)

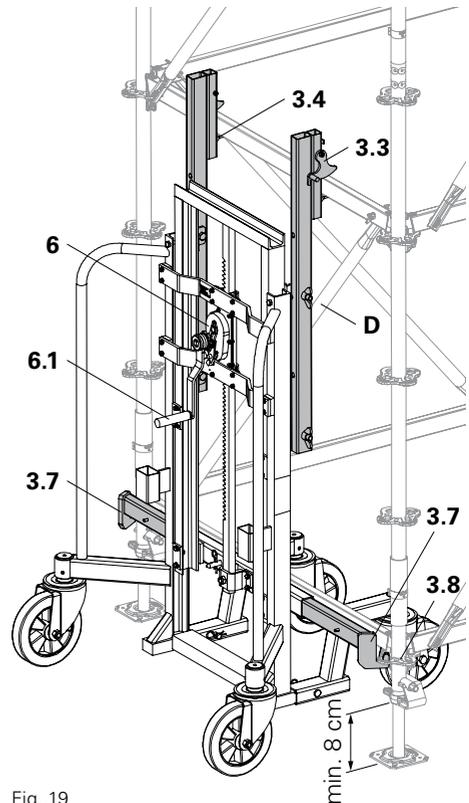


Fig. 19

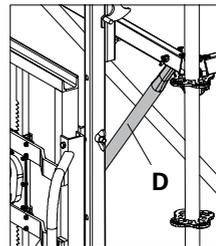


Fig. 19a

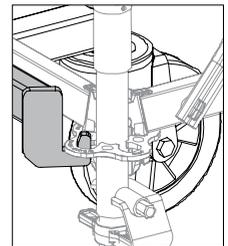


Fig. 19b

Connector Rosett Plus – Trolley

(RAL 2002, vermillion)

For a tower width of 1.50 m.

(Fig. 20)



Assemble Connectors Rosett Plus (4.1, 4.2) so that the safety pawls (4.3) face outwards in each case.

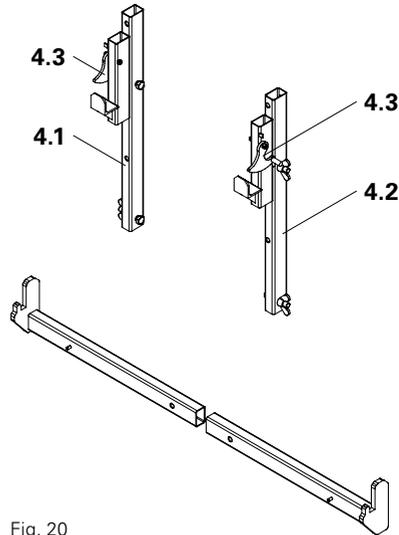


Fig. 20

Pos	Component
4.3	Safety pawl
4.4	Holding pockets
4.5	Winged screws
4.7	Support hooks

Assembly of the Connector Rosett Plus

1. Turn Connectors Rosett Plus (4.1, 4.2) so that the holding pockets (4.4) are pointing upwards and in the direction of travel.
2. Attach to the corresponding holes by means of the winged screws (4.5).
3. Pre-adjust Connector height with the winch (6).
(Fig. 21)

Assembly of the Telescopic Tube Rosett Plus

Attach Telescopic Tube Rosett Plus on the right and left using bolts (1.3) and cotter pins (1.4).

The supports (4.7) of the telescopic tube are pointing in the direction of travel.
(Fig. 21)

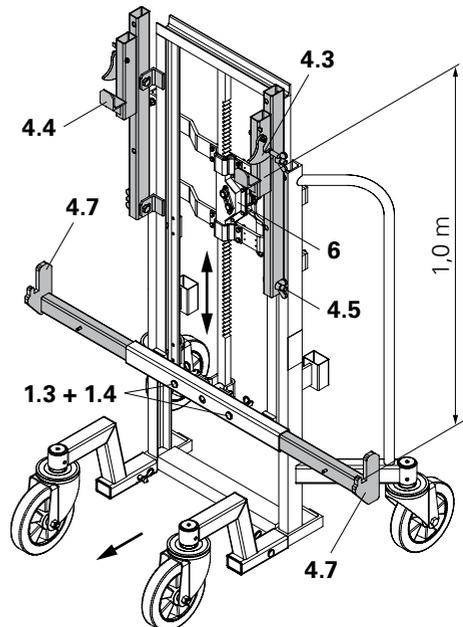


Fig. 21

Lifting of tables and towers

Starting operations

1. Push the Trolley with Winch and the Telescopic Tubes Rosett Plus centrally under the rosetts (4.8).
2. Adjust the height by means of the Winch (6) so that the rosetts are connected to the support hooks (4.7) and the Ledger with the holding pockets (4.4). (Fig. 22)
3. Raise the load by turning the hand crank (6.1) in a clockwise direction. The safety pawls (4.3) are automatically pushed upwards at the rear, fall in a forward direction and thus secure the Ledger against lifting. (Fig. 23)

PERI UP Flex Spindle Extension:

Min. 8 cm. (Fig. 22)



Visual check of the safety pawls.

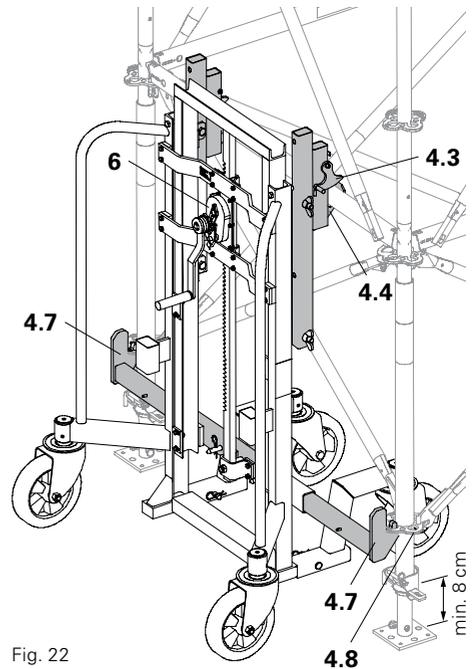


Fig. 22

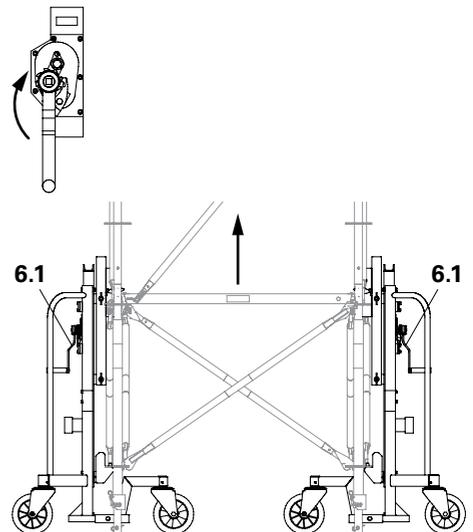


Fig. 23

PD 8 / PD 8 Eco

Connector PD 8 – Trolley

(RAL 1028, melon yellow)

(Fig. 24)



Depending on the spindle extension, the frame of the PD 8 / PD 8 Eco can be accommodated in the bottom or top Connectors (5.2).

(Fig. 25)

Pos Component

5.3 Connectors

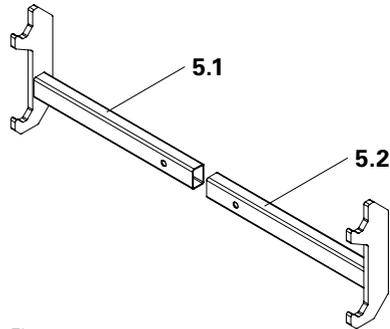


Fig. 24

Assembly of the Telescopic Tube PD 8 / PD 8 Eco

1. Attach Telescopic Tube PD 8 / PD 8 Eco on the right and left with bolts (1.3) and cotter pins (1.4). The Connectors (5.3) are pointing in the direction of travel.
2. Pre-adjust Connector height with the Winch (6). (Fig. 25)

PD 8 / PD 8 Eco Spindle Extension

- **for the top Connectors: min. 30 cm**
(PD 8 / PD 8 Eco Frame Tube min. 37 cm above the ground surface, see Fig. 27)
- **for the bottom Connectors: min. 4 cm**
(PD 8 / PD 8 Eco Frame Tube min. 13 cm above the ground surface, see Fig. 28)

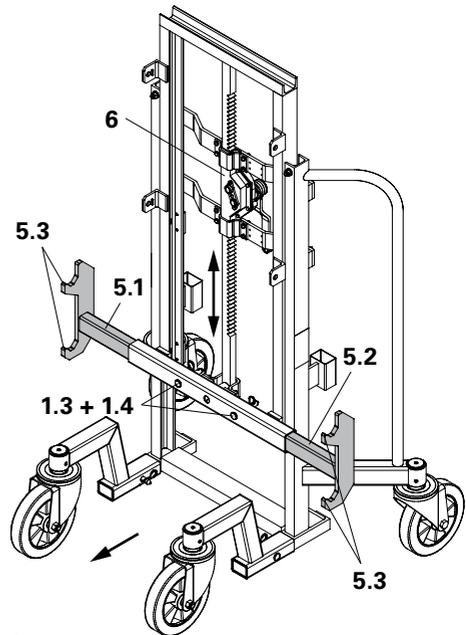


Fig. 25



Caution

Risk of tipping!

⇒ Ensure that the Trolley with Winch is in a stable position.

Picking up of slab tables and shoring towers with a small spindle extension

With a spindle extension < 30 cm, the front castors must be temporarily removed.

Preparation

1. Place the Trolley with Winch (1) in an inclined position to the PD 8 / PD 8 Eco.
2. Remove castor (1.1) and put to one side. It is possible that the Telescopic Tube PD 8 also has to be removed.
3. Push the Trolley with Winch in an inclined position under the PD 8 / PD 8 Eco. (Fig. 26)
4. Insert castor and secure with pin and cotter pin.
5. Remove second castor and position the Trolley with Winch parallel to and centrally under the PD 8 / PD 8 Eco.
6. Insert castor and secure with pin and cotter pin.
7. Insert telescopic tube. The lifting equipment is lowered.

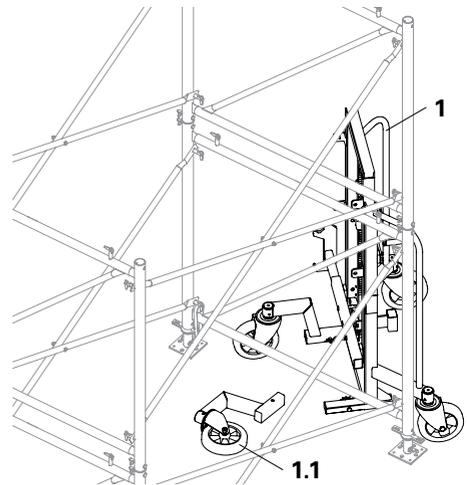


Fig. 26

Taking up the load

Raise the load by turning the hand crank (6.1) in a clockwise direction, place the PD 8 / PD 8 Eco in the top or bottom Connectors (5.2) and move. (Fig. 27 + 28)



Check the frame support.

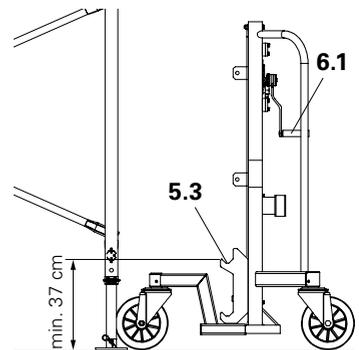


Fig. 27

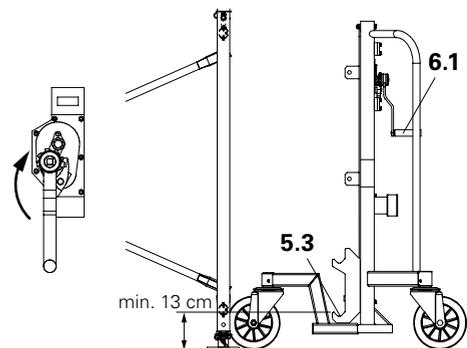


Fig. 28

Trolley with Winch

Translation of the Original Instructions for Use

Storage

Short-term storage



Warning

Risk of injury!

⇒ Do not park the Trolley with Winch on a slope.

1. Completely lower the Lifting Frame.
2. Secure against rolling away.
3. Clean the guides of the Trolley with Winch and protect against corrosion.
4. Clean the toothed rack of the winch and then grease.
5. The Trolley with Winch requires a dry and well-ventilated storage location.

Commissioning after a long storage period

After being in storage for longer than six months, the Trolley with Winch must be carefully checked before being returned to service.

The inspection should include all safety-relevant points:

- carefully clean the Trolley with Winch,
- carry out maintenance in the same way as before initial operations,
- check the Trolley with Winch for any signs of damage.

The following must be checked:

- wheels,
- Connectors for the accessory equipment,
- positioning and securing bolts are available, undamaged and correctly positioned,
- functionality of the Winch.

Transportation

Securing for transportation



Warning

Risk of injury!

- ⇒ When moving with the crane, do not exceed the load-bearing capacity of the lifting gear or hoisting equipment.
- ⇒ Ensure that the lifting gear is correctly positioned and connected.
- ⇒ Never stand under suspended loads.
- ⇒ Do not attach the lifting gear to the Lifting Frame (1).



1. Completely lower the Lifting Frame (1) of the basic unit.
2. Lifting gear is attached only to the pushing handles (1.2) of the basic unit.
3. Secure Trolley with Winch against rolling away.
4. Secure Trolley with Winch additionally with tension straps. (Fig. 29)



The most suitable lifting equipment is a textile strap with sufficient load-bearing capacity (>1.0 t).

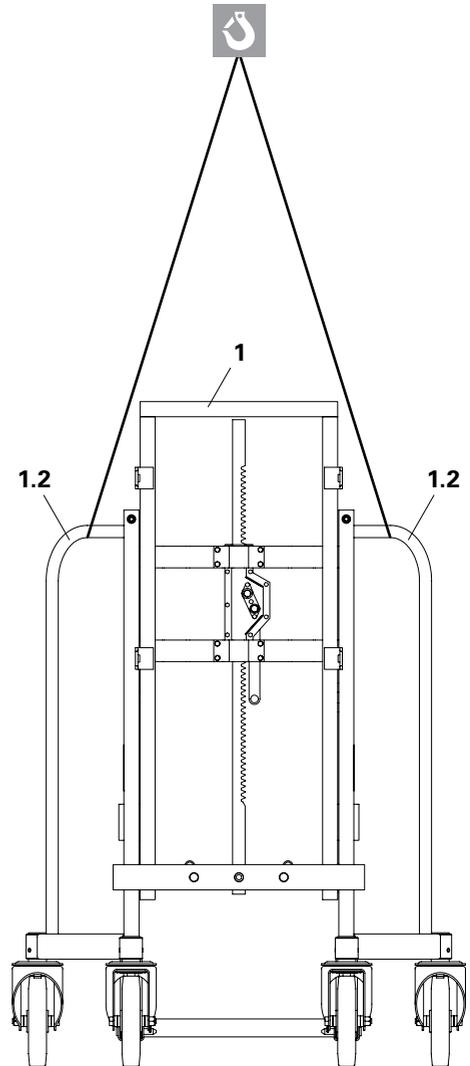


Fig. 29

Initial operations



Caution

Risk of injury!

⇒ A damaged Trolley with Winch must be taken out of service.

Measures to be taken before initial operations

Before operating the Trolley with Winch, the operator has to be sure that the equipment is in a safe operational condition:

- free movement of the Lifting Frame (1). Lifting Frame can be extended and retracted to maximum and minimum lengths.
- check toothed rack (6.2) for signs of wear or damage.
- clean and grease the toothed rack (6.2).
- check the free movement of the Winch (6). Winch must not slip on the toothed track or be sluggish when used.
- locking pawl (6.3) on the winch (6) must be checked for functionality. The locking pawl must close automatically. (Fig. 31)
- all bolts (1.3) and cotter pins (1.4) are properly attached.
- all wheels (1.1) must be smooth running and show no signs of damage.
- all components must be correctly mounted.
- only original PERI components may be used.

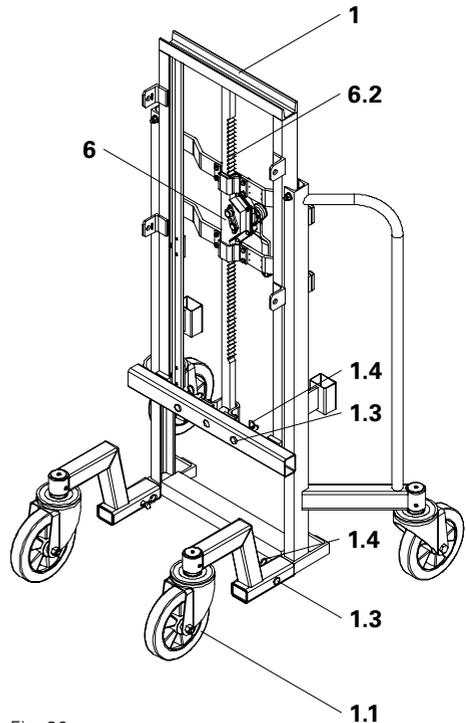


Fig. 30

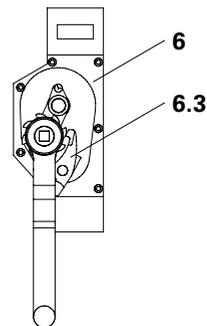


Fig. 31

Transport of load



Warning

Risk of injury!

- ⇒ Slab tables / shoring towers must be symmetrical to the longitudinal axis and in a perpendicular position.
- ⇒ Move the Trolley with Winch only on flat and sufficiently load-bearing surfaces.
- ⇒ All obstacles must be removed.
- ⇒ Towers / tables are only to be sufficiently lifted as required, so that they can still be moved.
- ⇒ Lifting and lowering is to take place at a slow speed. Manual operations.
- ⇒ Move slowly and without the help of any power-operated pulling means.



The load can be held in any position on the Winch (6) by means of a load pressure brake.

The safe and reliable functioning of the load pressure brake is system-dependent (safety crank) guaranteed only with loads of approx. 5% – 10% of the nominal load.

Moving horizontally

Symmetrically assembled towers / tables can be safely moved with two Trolleys with Winch up to the specified sizes in the design tables.

Requirements:

- no wind load,
- max. moving speed of 1 km/h (corresponds to an equivalent load of 5% of the table's weight acting on the upper edge, but with a minimum of 0.3 kN).

If towers / tables have other dimensions or are moved under other conditions, they are to be secured using appropriate means.

Through uniform and smooth winch operations, the load from the tower / table is easily lifted and moved. (Fig. 32)

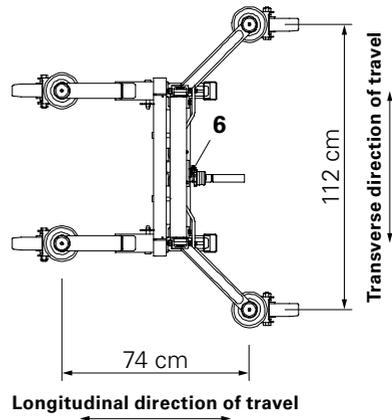


Fig. 32

Winch



Warning

Risk of injury!

- ⇒ The Winch is only suitable for manual operations!
- ⇒ Check the functionality of the Winch and brake before every use. Lubricate toothed rack when necessary.
- ⇒ Repairs are to be carried out only by qualified personnel!
- ⇒ Protect brake discs against grease and moisture!

Functionality of the Winch

The Winch (6) as well as the Trolley with Winch (1) is a unit for the lifting and lowering of loads which is operated through the use of muscle power. The load can be securely held at any position through the integrated brake. (Fig. 33)

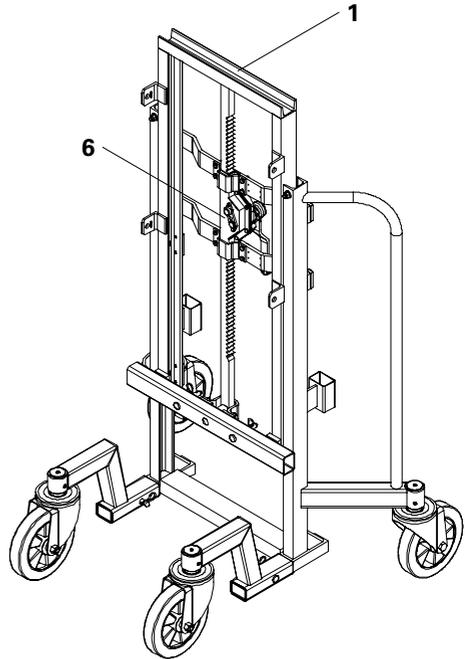


Fig. 33

Lowering the Trolley with Winch



Caution

Risk of injury!

⇒ When lowering the load, ensure that the securing pawls are in an open position!



Lowering

1. Turn securing pawls (2.3 / 3.3 / 4.3 / 7.3) upwards in a forward direction (stop position).
2. Lower the load by turning the hand crank (6.1) counterclockwise.
3. Lower the load slowly and smoothly. Check the vertical position and adjust if necessary.
4. Continue to lower the Trolley with Winch until the supports are free.
5. Extend the Trolley with Winch. (Fig. 34)



If required, remove castors (1.1) on the PD 8 Towers / Tables.

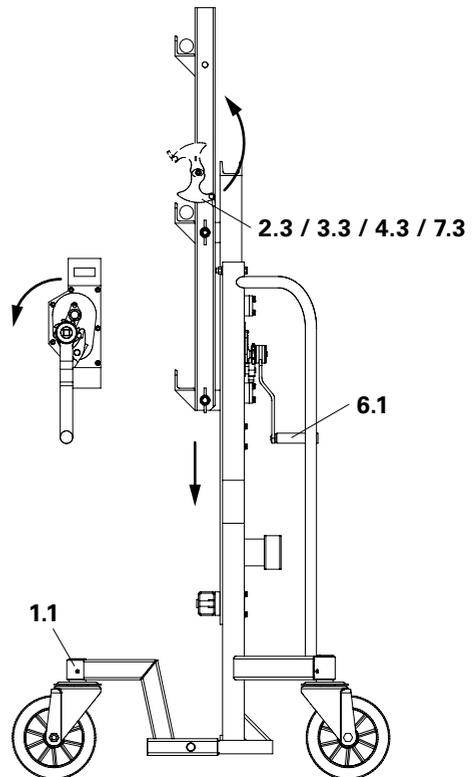


Fig. 34

Mechanics



Caution

Risk of injury!

- ⇒ The Trolley with Winch must be secured against rolling away!
- ⇒ Risk of crushing! Personal protective equipment must be worn when maintenance and repair work is being carried out!
- ⇒ All maintenance and repair work must be carried out either by PERI personnel or other competent persons only!



Maintenance and repair work is to be carried out on request but at least once a year.

General

Only original PERI components may be used.

The Trolley with Winch is low maintenance. The guides of the basic unit and the Lifting Frame as well as the toothed rack of the Winch are greased as required.

Maintenance and repair work must include the following:

- Corroded areas are to be repaired using appropriate measures whilst welding seams undergo a visual inspection.
- Missing, worn or damaged cotter pins, securing bolts or supports are to be replaced.
- Check the securing pawls and Winch for functionality, wear and damage.

Welding work

Welding work is only to be carried out by PERI personnel or specialist companies with the corresponding country-specific suitability certification (e.g. according to EN ISO 3834-3 and EN 1090-2).

Cleaning



Caution

Risk of injury!

⇒ Cleaning operations must not be carried out with flammable liquids!



When cleaning with cleaning agents or a high-pressure cleaner, personal protective equipment must be worn.

Cleaning instructions:

- Always park and secure the Trolley with Winch according to the guidelines.
- Repeatedly move the Lifting Frame of the basic unit up and down, and clean guides. Then grease again.
- Clean the toothed rack of the Winch. Then grease again.

External cleaning:

- Clean the outer surfaces of the Trolley with Winch using water-soluble cleaning agents and water (sponge, cloth).
- Ensure that the guides and surrounding area are thoroughly cleaned.

Cleaning the Winch



Caution

Risk of injury!

⇒ The toothed-rack winch is a safety element. The use of cleaner solvents, caustic fluids or acidic and chlorinated liquids can cause damage to the chains!

Cleaning procedure:

- Clean with paraffin derivatives such as benzine (follow manufacturer's safety data sheet!).
- When using a high-pressure cleaner, clean without additives.

After washing:

- Immediately after cleaning, ensure that the Winch is free of any water. Extend and retract Winch several times.
- When greasing the Winch, likewise retract and extend several times.

Remedial measures for a malfunction

Possible malfunctions

Malfunction	Cause	Elimination
Cranking the Winch in an unloaded state is difficult.	Lubrication in bearing points and tothing is missing. Winch is subject to unnecessary stress.	Carry out maintenance work. Check fixings and eliminate tension.
Load cannot be held.	Brakes are worn or defective. Load is too low.	Replace Winch. Increase load.
Brakes do not open, load can only be lowered with great effort.	Brake discs and braking mechanism are tight.	Carry out maintenance work.

Table 7

Procedure

General

If the Trolley with Winch is no longer up to an operational standard and should be scrapped, it must be deactivated or dismantled. This means that the Trolley with Winch must be brought into a state whereby it can no longer be used for the purpose for which it was originally designed to undertake.

During the scrapping process, it must be ensured that recovery of the raw materials of the machine takes priority. These materials could possibly be re-used in a recycling process.

PERI takes no responsibility for any possible damage to persons or property which has been caused by the re-use of machine parts of the Trolley with Winch.

Disposal of the machine parts must be carried out according to local regulations.

Procedure

All deactivation or disposal operations must be carried out by suitably trained personnel.

1. Secure Winch with Trolley against rolling away.
2. Secure all movable machine parts to prevent any falling off, tipping over or accidental lowering.
3. Remove steel components, rubber and plastic parts from the machine and bring to the respective collection point.



During disposal operations, personal protective equipment must be worn.

Components

UK Coded Trolley with Winch consists of Items 019200 plus 118114 (176.20kg):

Item no.	Weight kg
019200	162.000

Trolley with Winch

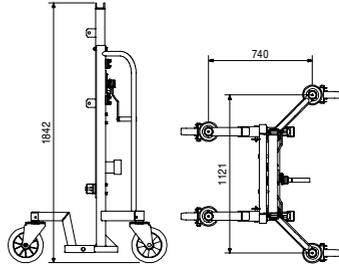
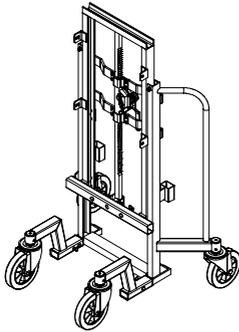
For moving towers and tables with MULTIPROP, PERI UP Flex, PERI UP Flex Plus, PERI UP Flex MDS K and PD 8 with appropriate support for the system.

Note

Follow Instructions for Use!

Technical Data

Permissible load-bearing capacity 1.0 t.



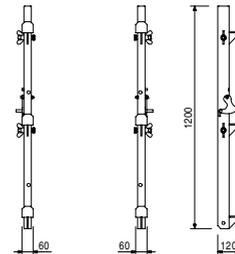
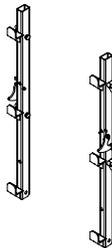
118114	14.200
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Connector MP – Trolley

For moving MULTIPROP Towers with Trolley with Winch.

Note

Consisting of 2 parts: Support left and right.



Accessories

130501	27.600
118605	21.500
117954	21.200
118115	11.000

Connector PERI UP – Trolley

Connector Rosett – Trolley

Connector Rosett Plus – Trolley

Connector PD 8 – Trolley

Trolley with Winch

Translation of the Original Instructions for Use

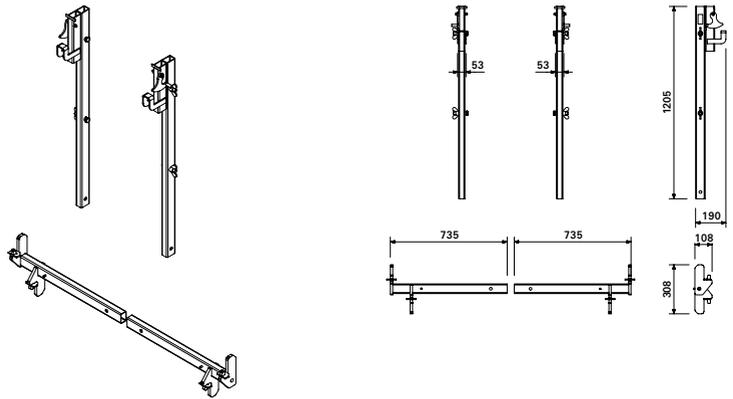
Item no.	Weight kg
130501	27.600

Connector PERI UP – Trolley

For moving PERI UP Flex Shoring Tower, Shoring Tower Plus and Shoring Tower MDS K with Trolley with Winch.

Note

Consisting of 4 parts: Support left and right.



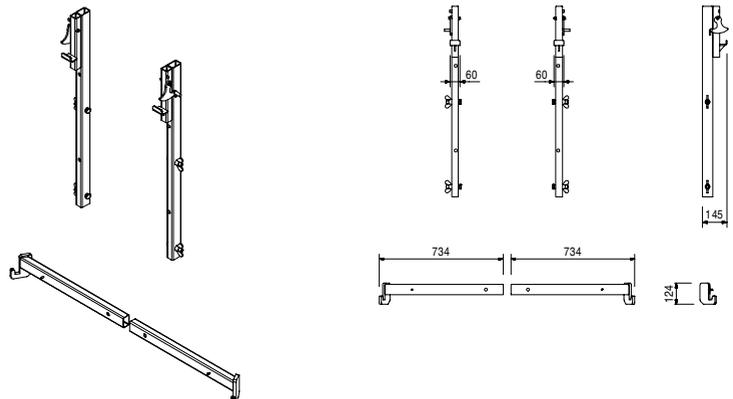
118605	21.500
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Connector Rosett – Trolley

For moving PERI UP Flex Shoring Tower with Trolley with Winch.

Note

Consisting of 4 parts: Support left and right. Replaced by item 130501.

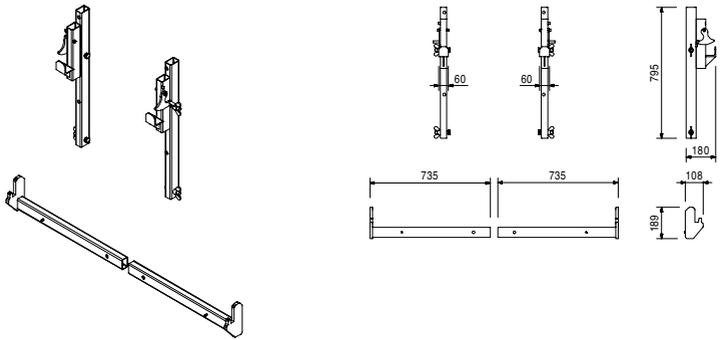


Trolley with Winch

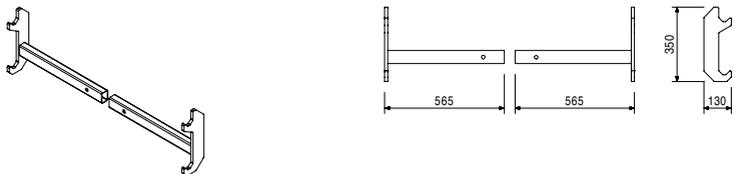
Translation of the Original Instructions for Use

Components

Item no.	Weight kg		
117954	21.200	Connector Rosett Plus – Trolley	Note Consisting of 4 parts: Support left and right. Replaced by item 130501.



118115	11.000	Connector PD 8 – Trolley	Note Consisting of 2 parts: Support left and right.
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EC-Declaration of Conformity

EG-Konformitätserklärung

im Sinne der EG-Richtlinie 2006/42/EG

Anhang II, 1.A

In der Gemeinschaft ansässige Person, die bevollmächtigt ist, die technischen Unterlagen zusammenzustellen:

Dipl.-Ing. Rainer Bolz
PERI GmbH
Rudolf-Diesel-Straße 19
89259 Weißenhorn

Beschreibung und Identifizierung der Maschine:

Produktgruppe: Traggerüst
Typ: Mitgeh-Hochhubwagen
Artikel-Nr.: 019200
Handels-Bez.: Hub- und Fahrgerät mit Winde

Es wird ausdrücklich erklärt, dass die Maschine allen einschlägigen Bestimmungen der folgenden EG-Richtlinien entspricht:

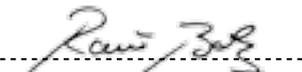
EG Maschinenrichtlinie 2006/42/EG

Fundstelle der angewandten harmonisierten Normen entsprechend Artikel 7, Absatz 2:

EN 349:1993+A1:2008
EN 12100 : 2011-03

Weißenhorn, 16.01.2018

Hersteller
PERI GmbH
Postfach 1264
89259 Weißenhorn



Leitung Produktentwicklung

Dipl.-Ing. Rainer Bolz
PERI GmbH

EC-Declaration of Conformity

This document is a translation into English from the German original.

EC-Declaration of Conformity according to the EC Machinery Directive 2006/42/EC Annex II, 1.A

Person residing within the Community authorised to compile the relevant technical documentation:

Dipl.-Ing. Rainer Bolz
PERI GmbH
Rudolf-Diesel-Strasse 19
89259 Weissenhorn

Description and identification of the machinery:

Product Group:	Falsework
Typ:	Highlifter
Article-No.:	019200
Commercial Designation:	Trolley with Winch

It is expressly declared that the machinery fulfils all relevant provisions of the following EU Directives:

European Directive On Machinery 2006/42/EC

Reference to the harmonised standards used, as referred to in Article 7, Annex 2:

EN 349:1993+A1:2008
EN 12100 : 2011-03

Weissenhorn, 16.01.2018

Manufacturer
PERI GmbH
Postfach 1264
89259 Weissenhorn

**The optimal
System for every
Project and every
Requirement**



Wall Formwork



Column Formwork



Slab Formwork



Climbing System



Bridge Formwork



Tunnel Formwork



Shoring Systems



Construction Scaffold



Facade Scaffold



Industrial Scaffold



Access



Protection Scaffold



Safety Systems



**System-Independent
Accessories**



Services



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