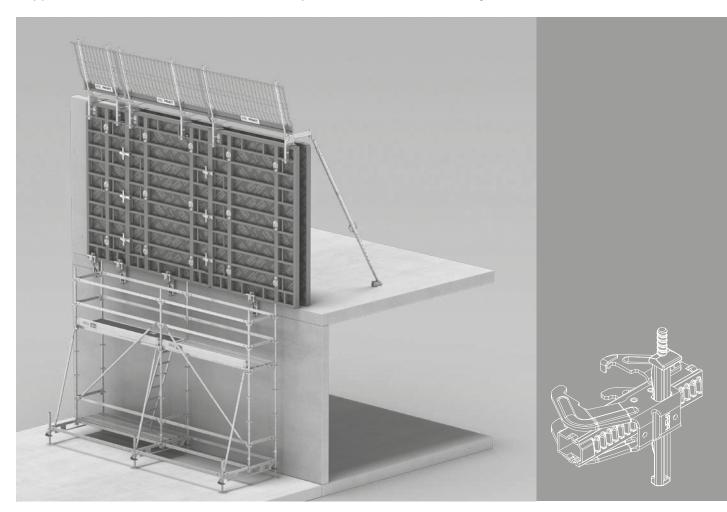


MAXIMO System Supplement

134321 Element Connection Lock MX VS 134623 Brace Connector formlining side MX RS 135327 Wall Formwork Console MX WK

Supplement to the Instructions for Assembly and Use – Standard Configuration – Edition 10/2019



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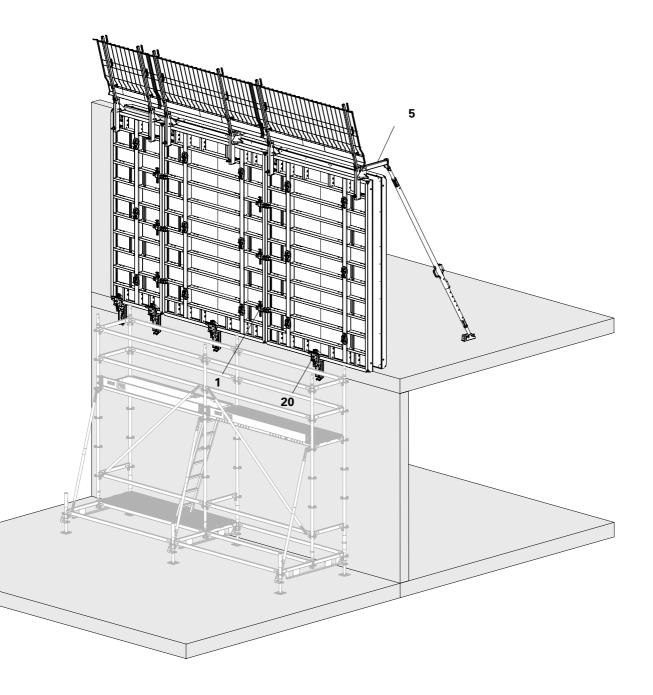
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Overview



Main components



- 1 Element Connection Lock MX VS
- 5 Brace Connector formlining side MX RS
- 20 Wall Formwork Console MX WK

Overview



Key

Pictogram | Definition



Danger / Warning / Caution



Information



To be complied with



Load-bearing point



Visual check



qiT



Incorrect use



Safety helmet



Safety shoes



Safety gloves



Safety goggles



Personal protective equipment to prevent falling from a height (PPE)

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, irreversible injury.



Warning

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



Caution

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



Information

This sign indicates situations in which failure to observe the information can result in material damage.

Format of the safety instructions



Signal word

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

⇒ Avoidance measures.

Dimension specifications

Dimensions are usually given in cm. Other measurement units, e.g. m, 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.

Notes on illustrations

The illustration on the front cover of these instructions is understood to be a system representation only. The assembly steps presented in these Instructions for Assembly and Use 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.

For a better understanding, detailed illustrations are sometimes incomplete. Safety installations which have possibly not been shown in these detailed descriptions must nevertheless still be available.

Arrows

- → Arrow representing an action
- Arrow representing a reaction of an action*
- → Arrow representing forces
- * If not identical to the action arrow.

Introduction



Target groups

Contractors

These Instructions for Assembly and Use are designed for contractors who either

- assemble, modify and dismantle the formwork system, or
- use it, e.g. for concreting, or
- allow it to be used for other operations, e.g. carpentry or electrical work.

Competent person

(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 person qualified to carry out inspections

Due to the specialist knowledge gained from professional training, work experience and recent professional activity, the competent person qualified to carry out inspections has a reliable understanding of safety-related issues and can carry out inspections correctly. Depending on the complexity of the inspection 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.

Qualified persons

Formwork systems may only be assembled, modified or dismantled by personnel who are suitable 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 formwork in an understandable form and language.
- Description of the measures for assembling, modifying or dismantling the formwork.

- Naming of the preventive measures to be taken to avoid the risk of persons and objects falling.
- Naming of the safety precautions in the event of changing weather conditions which could adversely affect the safety of the formwork system as well as the persons concerned.
- Details regarding the permissible loads.
- Description of all other risks that are associated with assembly, modification or dismantling operations.



- In other countries, 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.
- A competent person must be present on site during formwork operations.

Additional technical documentation

- Instructions for Assembly and Use:
 - MAXIMO MX 15
 - MAXIMO MX 18
 - PROKIT EP 110
- Instructions for use:
 - Lifting Hook MAXIMO 1.5 t
 - Lifting Gear Combi MX
 - Lifting Gear MX
- Data Sheets:
 - Anchor Bolt PERI 14 x 150
 - Anchor Sleeve M24
- Design Tables 2015 Formwork and Shoring
- MAXIMO Brochure

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

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

Introduction



Document instructions

This "Supplement to the Instructions for Assembly and Use of MAXIMO System Supplement" must only be used in combination with the assembly and usage instructions for the MAXIMO system used.

Instructions on use

The use in a way not intended according to the Instructions for Assembly and Use, or any use deviating from the standard configuration or the intended use, represents a misapplication with a potential safety risk, e.g. risk of falling.

Only PERI original parts may be used. The use of other products and spare parts is not allowed.

Changes to PERI components are not permitted.

The system described in these Instructions for Assembly and Use may contain patent-protected components.

Introduction



Cleaning and maintenance instructions

In order to maintain the value and operational readiness of the formwork materials over the long term, clean the panels after each use.

Some repair work may also be inevitable due to the tough working conditions.

The following points should help to keep cleaning and maintenance costs as low as possible.

Spray the formwork on both sides with concrete release agent before each use; this facilitates easier and faster cleaning of the formwork. Spray the concrete release agent very thinly and evenly!

Spray the rear side of the formwork with water immediately after concreting; this avoids any time-consuming and costly cleaning operations.

When used continuously, spray the panel formlining with concrete release agent immediately after striking; then clean by means of a scraper, brush or rubber lip scraper. Important: Do not clean formlining made of plywood with high-pressure equipment; this could result in the formlining being damaged.

Fix box-outs and mounting parts with double-headed nails; as a result, the nails can easily be removed later, and damage to the formlining is largely avoided.

Close all unused tie holes with plugs; this eliminates any subsequent cleaning or repair work. Tie holes accidentally blocked with concrete are cleared by means of a steel pin from the formlining side.

When placing bundles of reinforcement bars or other heavy objects on horizontally stored formwork elements, suitable support, e.g. square timbers, is to be used: this prevents impressions and damage to the formlining to a large extent.

Internal concrete vibrators should be fitted with rubber caps if possible; as a result, any damage to the formlining is reduced if the vibrator is accidentally inserted between the reinforcement and formlining.

Never clean powder-coated components, e.g. elements and accessories, with a steel brush or hard metal scraper; this ensures that the powder-coating remains intact.

Use spacers for reinforcement with large-sized supports or extensive areas of support; this largely avoids impressions being formed in the formlining when under load.

Mechanical components, e.g. spindles or gear mechanisms, must be cleaned of dirt or concrete residue before and after use, and then greased with a suitable lubricant.

Provide suitable support for the components during cleaning so that no unintentional change in their position is possible.

Do not clean components suspended on crane lifting gear.



Cross-system



Safety instructions apply to all phases of the system.

General

The contractor must ensure that the Instructions for Assembly and Use supplied by PERI are available at all times and understood by the site personnel.

These Instructions for Assembly and Use can be used as the basis for creating a risk assessment. The risk assessment is compiled by the contractor. However, these Instructions for Assembly and Use do not replace the risk assessment!

Always take into consideration and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, the current safety regulations and guidelines valid in the respective countries must be observed.

Materials and working areas are to be inspected on a regular basis, especially before each use and assembly, for:

- signs of damage,
- stability and
- functional correctness.

Damaged components must be exchanged immediately on site and may no longer be used.

Safety components are to be removed only when they are no longer required.

Components provided by the contractor must comply with the characteristics required in these Instructions for Assembly and Use as well as all valid laws and standards. Unless otherwise indicated, this applies in particular to:

- timber components: Strength Class C24 for Solid Wood according to EN 338.
- scaffold tubes: galvanised steel tubes with minimum dimensions of Ø 48.3 x 3.2 mm according to EN 12811-1:2003 4 2 1 2
- scaffold tube couplings according to EN 74.

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

Appropriate measures for working and operational safety, as well as stability, are to be defined on the basis of this risk assessment

Corresponding proof of stability can be provided by PERI on request if the risk assessment and resulting measures to be implemented are made available.

Before and after exceptional occurrences that may have an adverse effect on the safety of the formwork system, the contractor must immediately

- produce another risk assessment and make use of its results to take suitable steps to guarantee the stability of the formwork system,
- arrange for an extraordinary inspection to be carried out by a competent person qualified to do so. The aim of this inspection is to identify and rectify any damage in good time in order to guarantee safe use of the formwork system.

Exceptional events could be:

- accidents,
- Iong periods of non-use,
- natural events, e.g. heavy rainfall, icing, heavy snowfall, storms or earthquakes.

Never walk under suspended loads.



Assembly, modification and dismantling work

Assembly, modification or dismantling of formwork systems may only be carried out by qualified persons under the supervision of a competent person. The qualified personnel must have received appropriate training for the work to be carried out with regard to specific risks and dangers.

On the basis of the risk assessment and Instructions for Assembly and Use, the contractor must create installation instructions, in order to ensure safe assembly, modification and dismantling of the formwork system.









The contractor must ensure that the personal protective equipment (PPE) required for the assembly, modification or dismantling of the formwork system, e.g.

- Safety helmet,
- Safety shoes,
- Safety gloves,
- Safety goggles,

is available and used as intended.



If personal protective equipment against falling from a height (PPE) is required or specified in local regulations, the contractor must determine appropriate attachment points on the basis of the risk assessment. The PPE against falling to be used is determined by the contractor.

The contractor must

- provide safe working areas for site personnel which can be reached through the provision of safe access ways. Areas of risk must be cordoned off and clearly marked.
- ensure stability during all stages of construction, in particular during assembly, modification and dismantling operations.
- ensure and provide evidence that all loads that occur are transferred safely.

Use

Every contractor who uses or allows formwork systems or sections of the formwork to be used, is responsible for ensuring that the equipment is in good condition.

If the formwork system is used successively or at the same time by several contractors, the health and safety coordinator must point out any possible mutual hazards and all work must be then coordinated.

- Working areas must remain free of any tripping hazards.
- Do not walk on components and assembly units, always ensure that they are in a secure position.
- Always keep components and assembly units free of dirt, ice and snow. In wet weather conditions in particular, there is an increased risk of slipping.
- Always keep working platforms clean
- Do not remain in the area of risk created by the moving parts.
- Avoid installing working areas and access ways in areas of risk.
- Cordon off areas of risk.



System-specific



Safety instructions apply to all phases of the system.

The contractor must ensure that assembly, modifications and dismantling, moving as well as the use and handling of the product is managed and supervised by professionally qualified and authorised personnel.

All persons working with the product must be familiar with the operating instructions and safety information.

The contractor must ensure that the instructions for assembly and use, other instructions required for operations or assembly, relevant planning documents, parts lists and other information are available to users.

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

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

The contractor must ensure that the user has an appropriate and sufficient number of tools, lifting equipment and slings, suitable and sufficient space for assembly and storage as well as adequate crane capacity at his disposal.

Unexpected potential hazards can always arise when assembly work is carried out. Assess the degree of risk in each individual case and, if necessary, take measures to prevent or at least minimise the risk.

If anti-fall protection cannot be used or has to be removed due to operational reasons, safety equipment must be installed in its place in order to prevent falls from any height. If the use of fall arrest equipment is deemed to be inappropriate, personal protection equipment (PPE) can be used if suitable fixing points are available.

Use a guide rope to ensure that assembly units suspended from the crane are fully under control when being moved.

Avoid entering the area between suspended loads and the building.

Site personnel are forbidden to remain in areas below where assembly work is being carried out, unless the area of risk has been provided with sufficient protection against falling, overturned, sliding or rolling objects and masses.



- Secure all bolts using cotter pins.
- Secure all screws using nuts.
- Check connecting parts for signs of damage and ensure that they have been correctly installed.



Maintenance and repairs

The components of the formwork are to be inspected before each use to ensure that they are in perfect condition. Only materials in perfect condition are to be used.

Remove any loose concrete residue. Dirt which affects functionality is to be removed immediately. Damaged components should be inspected, removed and replaced.

In the event of overload or damage, work should be stopped, the cause determined, rectified and the damaged parts replaced.

If the maximum permissible wind speed has been exceeded, temperatures are outside the scope of application or after any extraordinary event has taken place such as a fire or earthquake, the functionality and load-bearing capacity of all safety components as well as the supporting structure are to be checked.

Safety components:

- Regular visual inspections are to be carried out by qualified personnel.
- Before any assembly, a functionality check should be carried out by qualified personnel.
- Only PERI original components to be used when replacing parts.
- Repairs are carried out by PERI qualified personnel only.

Supporting structure:

- A visual inspection is to carried out by authorised personnel before initial use.
- Faulty components should be reported to authorised persons.
- Only PERI original components are to be used for repairs or replacement
- Repairs are carried out by authorised personnel.

Storage and transportation

Store and transport components ensuring that no unintentional change in their position is possible. Detach lifting accessories and slings from the lowered components only

Detach lifting accessories and slings from the lowered components only if they are in a stable position and no unintentional change is possible.

Do not drop the components.

Use PERI lifting accessories and slings and only those load-bearing points provided on the component.

During the moving procedure

- ensure that components are picked up and set down so that unintentional falling over, falling apart, sliding, falling down or rolling is avoided.
- no persons are allowed to remain under the suspended load.

Always guide pre-assembled scaffolding bays, scaffolding units or scaffolding sections with ropes when moving them by crane.

The access areas on the construction site must be free of obstacles and tripping hazards, as well as being slip-resistant.

For transportation, the sub-base must have sufficient load-bearing capacity.

Use original PERI storage and transport systems, e.g. pallet cages, pallets or stacking devices.

Component overview and tool list



Pos. no.	Component name	Art. no.
1	Element Connection Lock MX VS	134321
2	Control Rod MX VS	134337
3	Control Rod Extension MX VS	134339
4	Timber 20/16 cm	
5	Brace Connector formlining side MX RS	134623
6	Lifting Hook MAXIMO 1.5 t	115168
7	Push-Pull Prop RS	
8	Base Plate -2 for RS 210 – 1400	117343
9	Anchor Bolt PERI 14/20 x 130	124777
10	Guardrail Post MXK	126360
11	Side Mesh Barrier PMB 260	117326
12	Primary formwork	
13	Closing formwork	
14	Formwork element	
15	Swivel Nut MX 15	112386
16	Alignment Coupler BFD	023500
17	Clamping Head TRIO	023660
18	Lattice Girder GT 24	
19	MX 15 Tie	
20	Wall Formwork Console MX WK	135327
21	Plug-in Unit Slab MX WK	135282
22	Anchor Bolt PERI 14 x 150	117020
23	Anchor Sleeve M24	026230
24	Bolt ISO 4014 M24x100-10.9	135465
25	Timber Plank 15/3 cm	
26	Formwork panel	

Component overview and tool list



Tool name	Art. no.
Ratchet Wrench 1/2"	072180
Socket SW 27-1/2"	029650
Socket SW 22-1/2"	
Socket SW 36-1/2"	
Hammer 500 g	

Tightening torques

Unless otherwise indicated, PERI recommends the following guide values for screw connections as "Hand-tightened" tightening torques $M_{\rm A,hand-tightened}$. These guide values are based on EN 15048 with minimum Safety Factor 3 against breakage.

Quality class	Quali	Quality 8.8 and 10.9	
Lubrication	Lightly oiled MoS2		undefined
Screw M8	8 Nm	6.6 Nm	8 Nm
Screw M10	16 Nm	13.0 Nm	16 Nm
Screw M12	30 Nm 23.0 Nm		30 Nm
Screw M16	65 Nm	54.0 Nm	65 Nm
Screw M20	100	100 Nm	
Screw M24	150	150 Nm	
Screw M30	260	260 Nm	
Screw M36	350	350 Nm	



Intended use

The Wall Formwork Console MX WK provides the bearing for forming elements in the MAXIMO system formwork when forming walls at the slab edge. The forming elements are secured using an alignment coupler BFD so they cannot be lifted out and are pressed against the existing slab.

The wall formwork console is secured on the building by means of Anchor Bolt PERI 14 x 150

or

 PERI Anchor Sleeve M24 in combination with a screw M24x100-10.9.
 Please observe the information about fixing means in the PERI data sheets.

The position of the formwork elements can be corrected by fine adjustment using the adjusting screw by up to ±30 mm.

The wall formwork console can be used as slab edge formwork by engaging the Plug-in Unit Slab MX WK.

A guardrail post MXK is mounted on the plug-in unit to provide anti-fall protection.



The resulting changes to the influence width and anchor forces must be taken into account. See Section "Wall formwork console as slab edge formwork" on page 30.

Application limits

- Maximum extension height 5.4 m.
- Maximum working wind 0.2 kN/m², corresponds to approx. 60 km/h.
- Maximum influence width 2.4 m as wall formwork.
- Maximum influence width 2.4 m as slab edge formwork without guardrail post.
- Maximum influence width 1.5 m as slab formwork with guardrail post.

Safety instructions



Danger

Risk of formwork elements falling if the permissible bearing strengths are exceeded!

⇒ Do not attach any concreting platforms or other attachment to the formwork elements on the wall formwork console MX WK.



Always use the Wall Formwork Console MX WK in combination with the Brace Connector formlining side MX RS.



Main components

Wall Formwork Console MX WK

Supporting the formwork elements.

Components

20 Wall Formwork Console MX WK

20.1 Wall mounting

20.2 Formwork girder

20.3 Adjusting screw

20.4 Mounting hole 18 mm

20.5 Mounting hole 25 mm

20.6 Insertion aid

(Fig. A1.01)

Plug-in Unit Slab MX WK

Using as slab edge formwork.

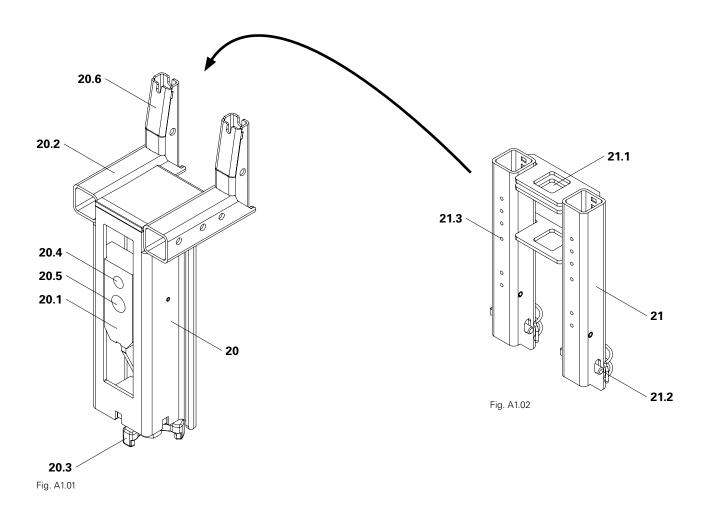
Components

21 Plug-in Unit Slab MX WK

21.1 Post support

21.2 Linch pin21.3 Hole

(Fig. A1.02)





Connection dimensions and contact surfaces

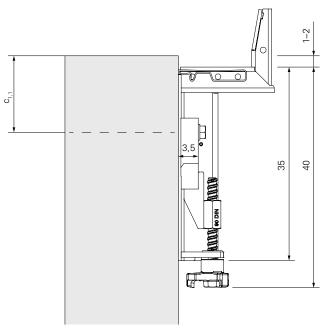


Fig. A1.03

.g. / 1.100		
_		
C _{1,2}	3,5	35

Fig. A1.04

Target values for the assembly							
Tie dimension c _{1,1} Ø 18 mm	13.5 cm						
Tie dimension c _{1,2} Ø 25 mm	17.0 cm						
Stop for formwork element	1 – 2 cm						
Clamping length	3.5 cm						
Bearing dimension	35 cm						
Operating height	40 cm						

Tab. A1.01



Plug-in unit and guardrail posts

The wall formwork console can be used as slab edge formwork by using the Plug-in Unit Slab MX WK.

Components

10 Guardrail Post MXK

20 Wall Formwork Console MX WK

21 Plug-in Unit Slab MX WK

Mounting the plug-in unit

1. Pull out linch pin (21.2).

- 2. Insert the plug-in unit (21) into the wall formwork console (20), with the post supports pointing upwards.
- 3. Secure plug-in unit (21) with linch pins (21.2).

(Fig. A1.05)



Is the plug-in unit secured by the linch pins?

Mounting Guardrail Post MXK

Insert the Guardrail Post MXK (10) into the support (21.1) until the securing hook (10.1) is engaged.



Is the safety hook engaged in the plug-in unit?

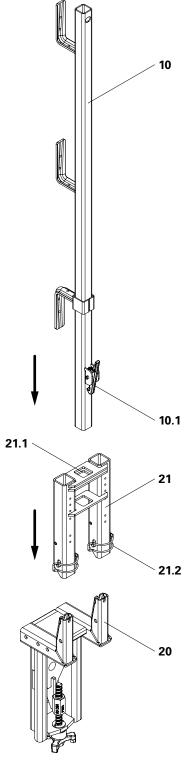


Fig. A1.05

A2 Brace Connector formlining side MX RS



Intended use

The Brace Connector formlining side MX RS must be mounted exclusively on the PERI MAXIMO formwork.

The brace connector is mounted on the rear on the formwork. A push-pull prop is attached on the formlining side and this secures the formwork element against tipping over.

The brace connector can be attached to both horizontal and vertical panel struts. An opposing guardrail can be mounted on the brace connector.

Components

- 5 Brace Connector formlining side MX RS
- 5.1 Base part
- 5.2 Mounting part
- **5.3** Bolt Ø 16 x 42
- **5.4** Cotter pin 4/1
- 5.5 Cam nut DW 15
- 5.6 Double hook
- 5.7 Linch pin
- **5.8** Bolt D18
- **5.9** Support for guardrail post
- 5.10 Vertical lift-off protector

Illustration A2.02 shows the brace connector in assembled state.

Application limits

- Maximum extension height 5.4 m.
- Maximum working wind 0.2 kN/m².

Removing the mounting part

- 1. Remove the linch pin (**5.7**) and bolt D18 (**5.8**).
- 2. Separate mounting part (**5.2**) from base part (**5.1**).

(Fig. A2.03)

Connect mounting part and base part

- 1. Attach mounting part (**5.2**) to base part (**5.1**).
- Connect mounting part with bolt D18 (5.8) and secure with linch pin (5.7).
 (Fig. A2.03)

Mounting the brace connector

- 1. Remove mounting part.
- Position base part (5.1) along the top edge of the formwork element (14) and engage.
 - → The double hook (5.6) fixes into the holes of the cross strut of the formwork element.
- 3. Mount cam nut (**5.5**) and tighten using a hammer. The base part (**5.1**) must lie firmly on the cross strut of the formwork element (**14**). The vertical lift-off protector (**5.10**) hooks below the cross strut.

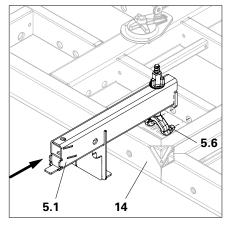
(Fig. A2.01a + A2.01b)

Safety instructions



- Permissible wind load: 0.2 kN/m².
- If storms or other weather events are predicted, which will definitely exceed this wind load, one of the following measures must be taken:
 - Position the closing formwork and support with push-pull props according to the details in Design Tables 2015.
 - Dismantle the formwork again.
- Do not use the brace connector for building heights that exceed this wind load.

The assembly and permissible loads can be found in the Instructions for Assembly and Use for the MAXIMO system used.





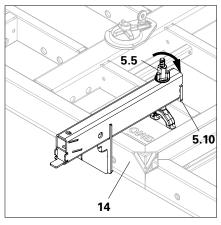
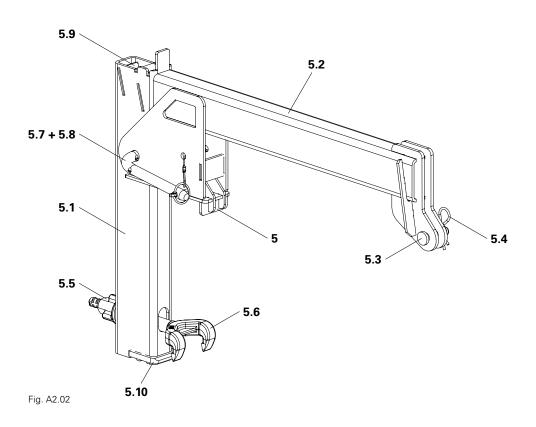
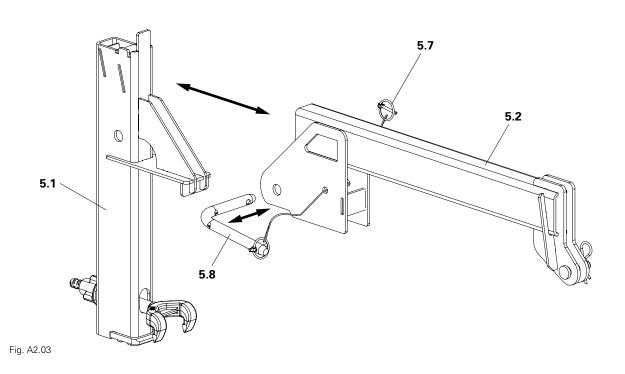


Fig. A2.01b

A2 Brace Connector formlining side MX RS







A3 Element Connection Lock MX VS



Intended use

The Element Connection Lock MX VS must be mounted exclusively on the PERI MAXIMO formwork.

Formwork elements are connected using the Element Connection Lock MX VS; assembly and operation takes place on a working scaffold on the formlining side.

The element connection lock allows assembly when there are restricted space conditions behind the formwork, if the access to the rear of the formwork is only possible using a working scaffold. The element connection lock corresponds to alignment coupler BFD and has the same function, it only differs in terms of its operation.

Main components

Element Connection Lock MX VS

For connection of the MAXIMO formwork elements.

Components

- 1 Element Connection Lock MX VS
- **1.1** Thread DW 15
- **1.2** Mounting bracket
- **1.3** Hook

(Fig. A3.01)

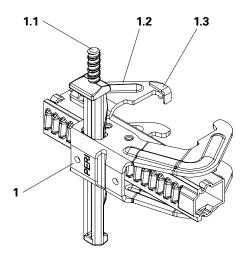


Fig. A3.01

Element Connection Lock MX VS



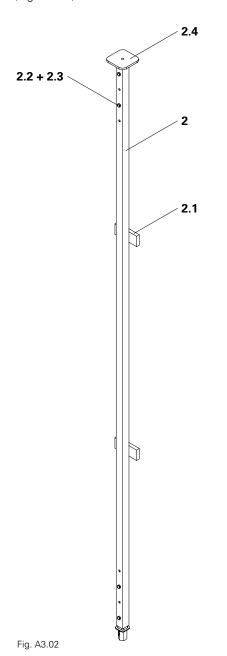
Control Rod MX VS

For connection and operation of the Element Connection Lock MX VS for formwork heights up to 3.3 m.

Components

- 2 Control Rod MX VS
- 2.1 Bracket
- 2.2 Bolt ISO 4014 M8x45-8.8
- 2.3 Hex. Nut ISO7040-M8-8
- 2.4 Stop MX VS

(Fig. A3.02)



Control Rod Extension MX VS

For extension of the Control Rod MX VS for formwork heights up to 5.4 m.

Components

- Control Rod Extension MX VS
- 3.1 Bracket
- 3.2 Bolt ISO 4014 M8x45-8.8
- 3.3 Hex. Nut ISO7040-M8-8

(Fig. A3.03)

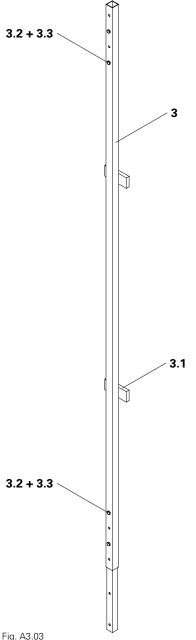


Fig. A3.03

A3 Element Connection Lock MX VS



Formwork height up to 330 cm

Components

- 1 Element Connection Lock MXVS
- 2 Control Rod MX VS

Installation

- 1. Screw control rod (2) onto element connection lock (1). (Fig. A3.04)
- 2. Position the element connection lock (1) on the cross strut of the formwork joint
- Engage element connection lock (1) until hook (1.3) of the mounting bracket (1.2) hooks into the side profile.
- 4. Close the element connection lock (1) with a push.
- Secure the element connection lock (1) with three hammer strikes on the stop MXVS (2.4) and bracket (2.1).
- 6. Unscrew control rod (2) from the element connection lock (1).

(Fig. A3.05 + A3.06)



- The arrangement and number of permissible element connection locks can be found in the Instructions for Assembly and Use for the MAXIMO system used.
- Installation sequence of element connection locks from bottom to top. (Fig. A3.06)

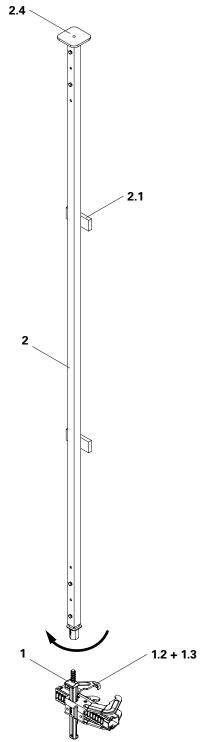


Fig. A3.04

Element Connection Lock MX VS



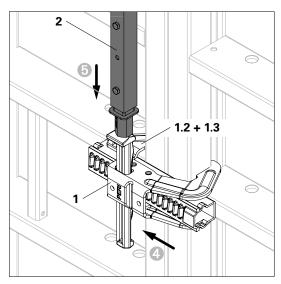
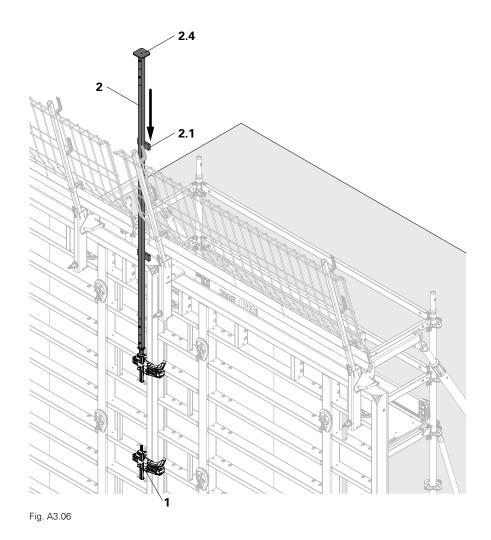


Fig. A3.05



A3 Element Connection Lock MX VS



Formwork height up to 540 cm

Components

- 1 Element Connection Lock MXVS
- 2 Control Rod MX VS
- 3 Control Rod Extension MXVS

Installation

- Remove screw M8 (2.2) and stop MX VS (2.4) from the control rod (2).
- 2. Insert stop (2.4) on extension (3). Fix with screw M8 (2.2) and nut M8 (2.3).
- Insert extension (3) on to control rod (2). Fix with screw M8 (3.2) and nut M8 (3.3)
- For further assembly see "Formwork height up to 330 cm".
 (Fig. A3.07)



- The arrangement and number of permissible element connection locks can be found in the Instructions for Assembly and Use for the MAXIMO system used.
- Installation sequence of element connection locks from bottom to top.

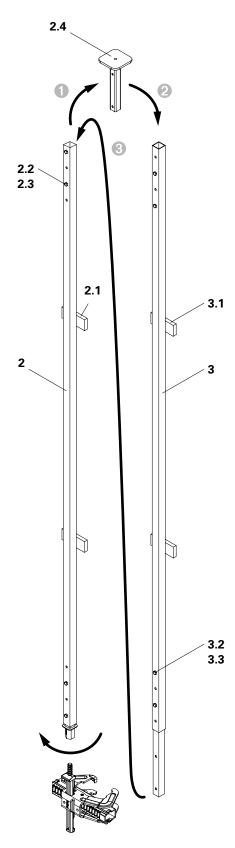


Fig. A3.07

A3 Element Connection Lock MX VS



Removing the element connection lock

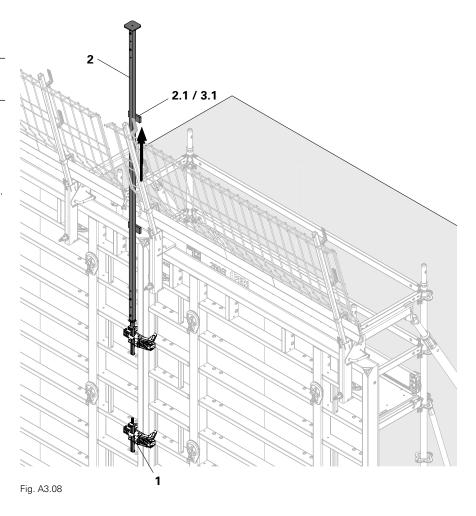
Components

- 1 Element Connection Lock MXVS
- 2 Control Rod MX VS

Dismantling

- 1. Screw control rod (2) onto element connection lock (1).
- 2. Unlock element connection lock (1) using a hammer on bracket (2.1/3.1).
- 3. Open the element connection lock (1) and remove.
- 4. Unscrew element connection lock (1) from the control rod (2).

(Fig. A3.08)





Wind load

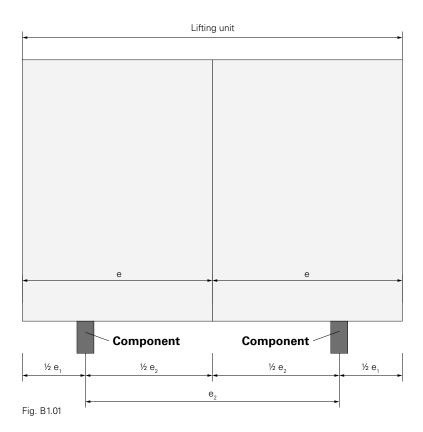
The use of components is restricted to wind loads of 0.2 kN/m². This corresponds to a wind speed of approx. 60 km/h.

Wall formwork console

A lifting unit may consist of one or more formwork elements.

The following relationships apply:								
Influence width	е	$e = \frac{1}{2} e_1 + \frac{1}{2} e_2$						
Projection	e ₁	e ₁ = 2e - e ₂						
Wall formwork console spacing	e ₂							
The following applies:		$e_1 < e_2$						

Tab. B1.01





Technical data

- The forces detailed in the tables are values for a wind load of 0.2 kN/m².
- Higher wind loads at the edge of the formwork are determined by the estimates in "Design Tables 2015" (Section, Push-pull Props, Kicker Braces).
- The vertical force is the weight of the formwork elements and mounting parts (see MAXIMO Standard Configuration). In the case of deviations to the standard configuration, calculate the weight of the elements and increase the number of wall formwork consoles if necessary.
- In the case of forces to be anchored, characteristic values are involved, see PERI Design Tables 2015.

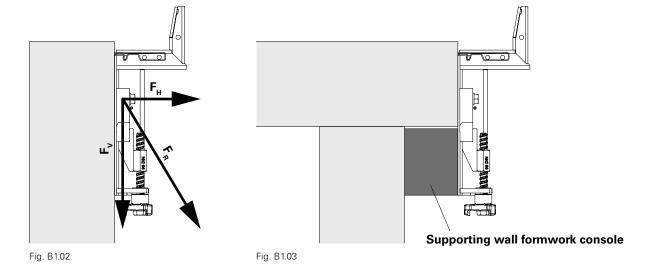
Safety instructions



- Do not attach any concreting platforms or other attachment to the formwork elements on the wall formwork console MX WK.
- Always use the Wall Formwork Console MX WK in combination with the Brace Connector formlining side MX RS, except for in the case of slab edge formwork.
- Please observe permissible anchor forces when selecting the fixing materials. (Tab. B1.02 + Fig. B1.02)
- Do not attach any girders or boards to the slab and secure the closing formwork on the inside against slipping. The filling pressure of the concrete could tear the consoles from the anchoring.
- The wall formwork console must cover the entire surface. The stability of the wall formwork console should be supported if necessary. (Fig. B1.03)

Forces to be anchored										
High formwork [m]	2.70	3.00	3.30	3.60	3.90	4.20	4.50	4.80	5.10	5.40
Width of influence [m]		2.40								
Force horiz. F _H [kN] Ø 18 mm	4.04	4.33	4.51	4.79	5.02	5.30	5.52	5.78	6.04	6.18
Force horiz. F _H [kN] Ø 25 mm	4.87	5.21	5.44	5.78	6.05	6.38	6.65	6.96	7.27	7.44
Force vert. F _v [kN]	4.20	4.72	4.90	5.42	5.77	6.25	6.57	7.01	7.45	7.49
Force F _R [kN] Ø 18 mm	5.83	6.40	6.66	7.24	7.65	8.19	8.58	9.09	9.59	9.71
Force F _R [kN] Ø 25 mm	6.43	7.03	7.32	7.92	8.36	8.93	9.35	9.88	10.41	10.56

Tab. B1.02



MAXIMO System Supplement



Supporting the formwork element or lifting unit



- An individual formwork element must always cover two wall formwork consoles. (Fig. B1.04)
- A lifting unit must always cover two wall formwork consoles. (Fig. B1.05)
- A formwork element must not cover an individual wall formwork console. (Fig. B1.06)
- The joint of two formwork elements must not cover one wall formwork console. (Fig. B1.07)
- The centre of gravity must always be between two wall formwork consoles. (Fig. A1.04 + A1.05)

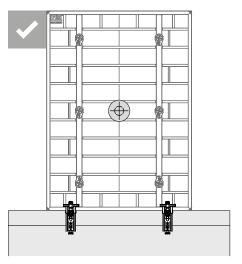


Fig. B1.04

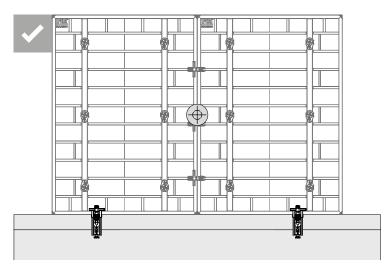


Fig. B1.05

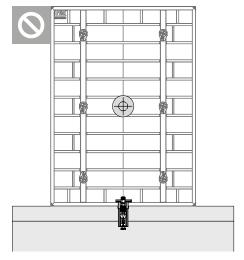


Fig. B1.06

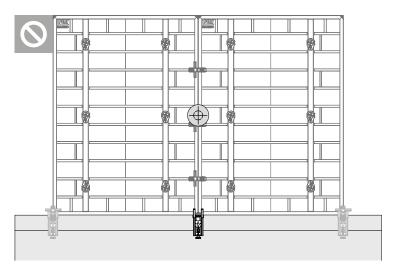


Fig. B1.07



Brace connector

Safety instructions



- Permissible wind load: 0.2 kN/m².
- If storms or other weather events are predicted, which will definitely exceed this wind load, one of the following measures must be taken:
 - Position the closing formwork and support with push-pull props according to the details in Design Tables 2015.
 - Dismantle the formwork again.
- Do not use the brace connector for building heights that exceed this wind load.

The assembly and permissible loads can be found in the Instructions for Assembly and Use for the MAXIMO system used.

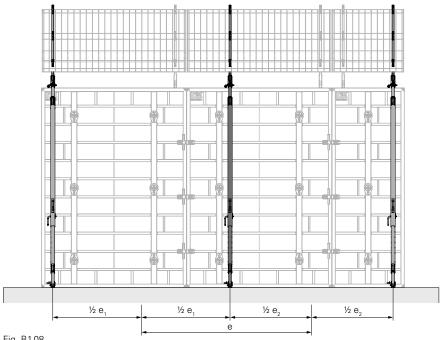


Fig. B1.08

Width of influence e											
Formwork height [m]	2.70	3.00	3.30	3.60	3.60	3.90	4.20	4.50	4.80	5.10	5.40
Push-pull prop new	RS 450	RS 450	RS 450	RS 450	RS 650	RS 650	RS 650	RS 650	RS 650	RS 650	RS 650
Push-pull prop old	RSS II	RSS II				RSS III					
Influence width e [m]	6.30	6.30	6.30	6.30	6.30	6.30	5.33	5.33	5.33	2.93	2.93
Push-pull prop force F_{α} [kN]	4.77	5.13	5.50	5.87	5.87	6.24	5.59	5.91	6.22	3.60	3.77

Tab. B1.03



Wall formwork console as slab edge formwork

Variants

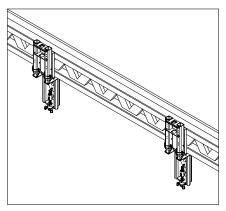
When a wall formwork console is used as slab edge formwork, the following variants are possible:

- Without anti-fall protection.
 (Fig. B1.09 + B1.10)
- Anti-fall protection with boards. (Fig. B1.11)
- Anti-fall protection with PROKIT. (Fig. B1.12)

Forces to be anchored 1) 2)										
Assembly	Force	F _A [kN]	Width of influence e	Illustration						
	Ø 18 mm	Ø 25 mm	[m]							
\\/ithout posts	_	8.5	2.4	B1.09						
Without posts	7.0	_	2.4	B1.10						
Posts with boards	8.7	10.6	1.5	B1.11						
Posts with PROKIT	8.7	10.6	1.5	B1.12						

Tab. B1.04

- In the case of forces to be anchored, characteristic values are involved, see PERI Design Tables 2015.
- ²⁾ Maximum slab thickness 30 cm.



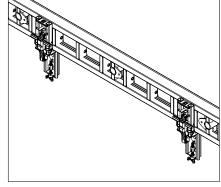
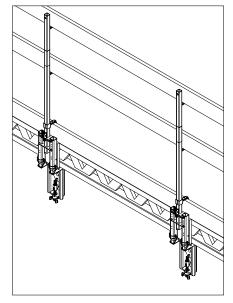


Fig. B1.09 Fig. B1.10



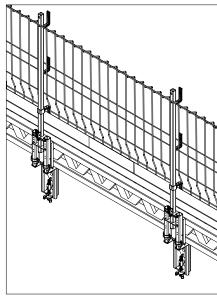


Fig. B1.11

Fig. B1.12



Determination of width of influence

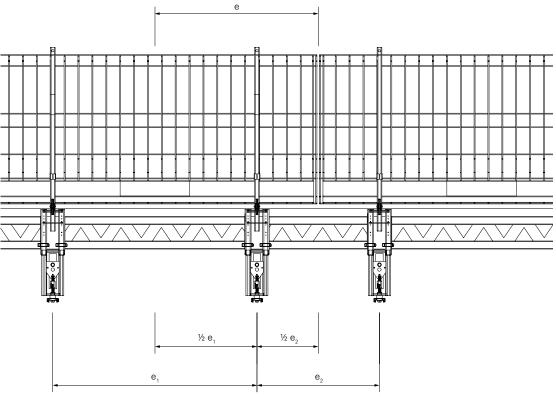


Fig. B1.13



- Observe the Instructions for Assembly and Use PROKIT EP 110, particularly the values for the distance of the post connections
 L_A (corresponds to e₁) and the maximum projection of the PROKIT grid.
- The width of influence e must not be exceeded, see Tab. B1.04

C1 Assembling the wall formwork console



This regular assembly describes the assembly of the wall formwork for another storey.

These instructions describe the assembly for the MAXIMO MX 15 system and apply accordingly to the MAXIMO MX 18 system.

Requirements

The execution of the regular assembly is subject to the following requirements:

- Anchor sleeves M24 are set in concrete in the existing slab.
- A working scaffold is constructed for assembly of the wall formwork consoles.
- The slab thickness is 30 cm. (Fig. C1.01)



Before assembling the wall formwork console MX WK, move the wall mounting to centre position using the adjusting screw.

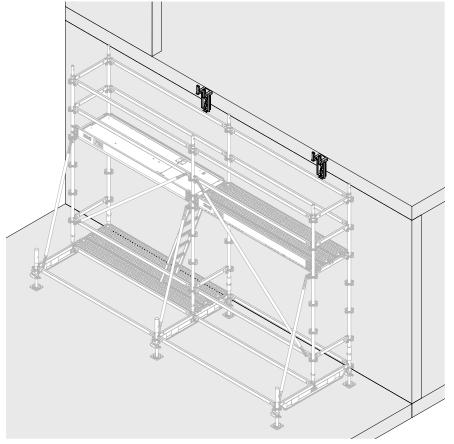


Fig. C1.01

C1 Assembling the wall formwork console



Parts list per wall formwork console

20 Wall Formwork Console MX WK

24 Bolt ISO 4014 M24x100-10.9

Installation

- 1. Remove any anchor sleeve M24 plugs.
- Screw down the wall formwork console (20) with screw M24x100 (24), but do not tighten.
- 3. Adjust to the required level using adjusting screw (**20.3**). Observe a formwork overhang of 1 2 cm.
- 4. Tighten bolt M24x100 (**24**) with 150 Nm.

(Fig. C1.02)



Always assemble the wall formwork console MX WK so the formwork element can be fixed later using alignment coupler BFD.

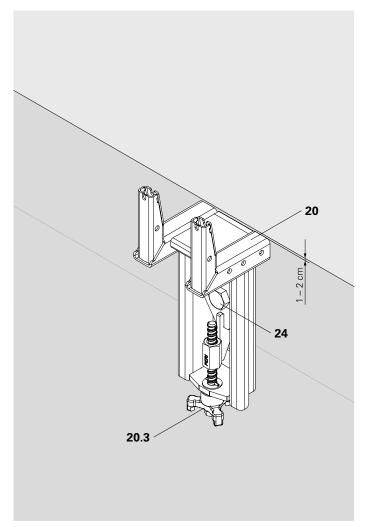


Fig. C1.02

C2 Preparing the formwork



Mounting the brace connector

Components

- 4 Timber 20/16 cm
- **5** Brace Connector formlining side MX RS
- 6 Lifting Hook MAXIMO 1.5 t
- **14** Formwork element
- 16 Alignment Coupler BFD

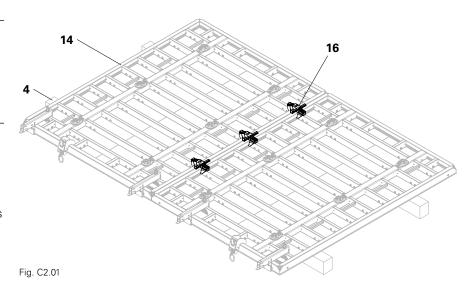
Assembly on formwork

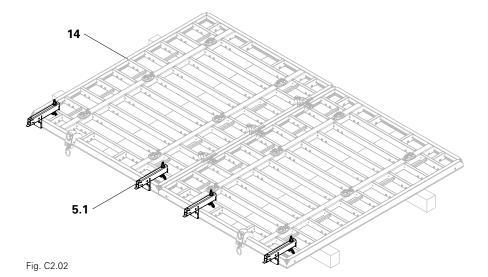
- 1. Rest two formwork elements (14) formlining side on square timbers 20/16 cm (4).
- Connect the two formwork elements with alignment coupler BFD (16).
 (Fig. C2.01)
- 3. Separate base part (**5.1**) and mounting part (**5.2**).
- 4. Fix base part (**5.1**) in assembly position.

(Fig. C2.02 + C2.02a + C2.02b)



Is the base part (**5.1**) lying firmly on the cross strut of the formwork element (**14**)?





C2 Preparing the formwork





Mount other base parts for later assembly of the side mesh barrier according to specifications.

- 5. Mount lifting hook (6) on formwork elements.
- 6. Mount Swivel Nut MX 15 (**15**). (Fig. C2.03)
- 7. Turn formwork element with formlining side upwards and support with square timbers 20/16 cm (4).
- 8. Spray formlining with formwork oil.
- 9. Connect mounting part (**5.2**) with base part (**5.1**). (Fig. C2.04)



- For secure assembly lay construction boards over the back of the formwork elements.
- Do not walk on the formlining.

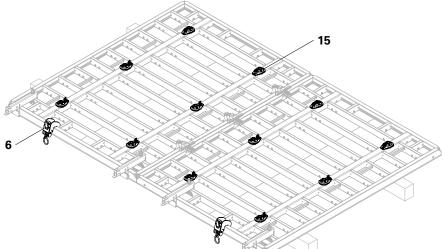
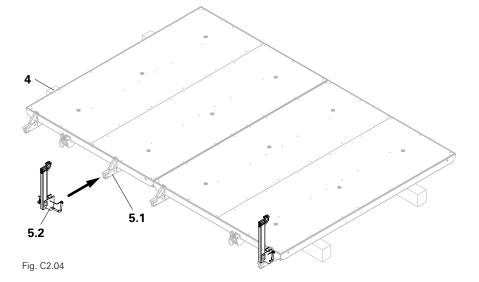


Fig. C2.03



C2 Preparing the formwork



Installing the mounting parts

Components

- 7 Push-Pull Prop RS
- 8 Base Plate -2 for RS 210 1400



Care must be taken to ensure that the formwork is not damaged during assembly.

Installing the push-pull props

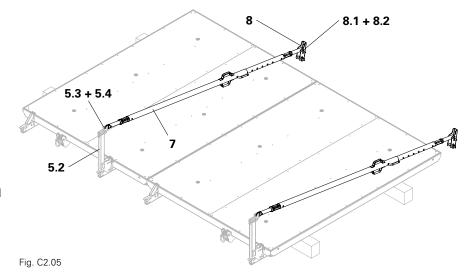
- 1. Remove bolt (5.3).
- 2. Fix push-pull prop (7) on the mounting part (5.2) with bolts (5.3) and secure with cotter pins (5.4).
- 3. Pull out push-pull prop (7) to required length.

(Fig. C2.05)

Mounting the base plate

- 1. Remove bolt (8.1).
- 2. Fix base plate (8) at the other end of the push-pull prop (7) with bolts (8.1) and secure with cotter pins (8.2).

(Fig. C2.05)







Assembling the side mesh barrier

Components

- 10 Guardrail Post MXK
- 11 Side Mesh Barrier PMB 260

Mounting the guardrail post

- 1. Fasten formwork element (**14**) onto crane using lifting hook (**6**) and lift approx. 90 cm.
- 2. Push the guardrail post (**10**) into the base part (**5.1**) until the securing hook is engaged.

(Fig. C3.01)



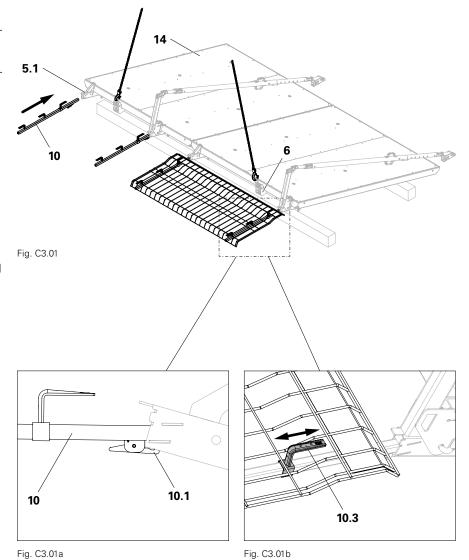
Is the safety hook (**10.1**) of the guardrail post (**10**) engaged correctly? (Fig. C3.01a)

Installation

- 1. Mount the side mesh barrier (11) on the top two L-holders (10.2). (Fig. C3.01)
- 2. Push the lower L-hook (**10.3**) up and side mesh barrier down.
- 3. Push the lower L-hook (**10.3**) down and secure the side mesh barrier. (Fig. C3.01b)



On the formwork element joints, mount the side mesh barrier offset by one mesh hole to the left or right. This allows for subsequent assembly of the Element Connection Locks MX VS.





Erecting the formwork



Caution

- Push-pull props may swing during erection!
- Uncontrolled movement of the formwork when the push-pull prop hooks on the ground! Falling or injuries to the whole body are possible.
 - ⇒ Hold the push-pull props when erecting the formwork until the formwork is freely suspended.

Erection

1. Erect formwork element (**14**) with crane.

Positioning the formwork



Danger

- There is a risk of the formwork element tipping until it is completely anchored!
- Tipping risk due to wind forces! Serious or even fatal injuries due to components tipping over.
- ⇒ Fix formwork element with alignment coupler BFD.
- ⇒ Fix push-pull props to the ground.
- ⇒ Remove crane lifting gear only when the push-pull props have been fixed to the ground.



Warning

Heavy moving parts! During assembly, there is a risk of hands being trapped.

⇒ Do not move formwork element in the area of the supports.



Always begin with the outer bay when positioning the formwork.



Increased risk of high winds occurring

Secure the formwork with additional push-pull props and wall formwork consoles for wind speeds over 60 km/h (corresponds to maximum working wind of 0.2 kN/m²).

In the event of storm warning take additional measures:

- Anchor the formwork.
- Install the closing formwork and secure.
- Dismantle the formwork.



Components

- 9 Anchor Bolt PERI 14/20 x 130
- 16 Alignment Coupler BFD

Positioning the formwork element

- Move formwork element (14) with crane to assembly position and position on the wall formwork consoles (20).
- 2. Set up the formwork element and clamp with alignment coupler BFD (16) to the wall formwork console (20).
 - ⇒ The formwork element is pushed via the alignment coupler onto the concrete slab and simultaneously fixed to the wall formwork console. (Fig. C3.03)
- 3. Set the inclination of the push-pull props (7) to horizontal 60°.
- 4. Fix base plate (8) using anchor bolt (9).
- 5. Erect a secure working area between the push-pull props.
- 6. Remove crane lifting gear.
- 7. Remove Lifting Hook MAXIMO 1.5 t.
- 8. Set up formwork element (**14**) with push-pull props.

(Fig. C3.02)

Set up additional formwork elements in the same way. Connect the formwork elements with the element connection lock MX VS. The number of required connection locks can be found in the MAXIMO Instructions for Assembly and Use.

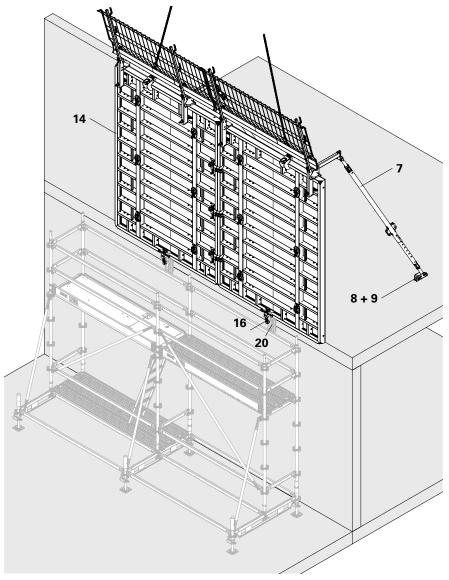


Fig. C3.02

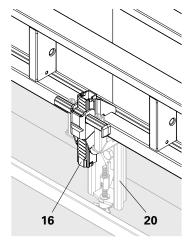


Fig. C3.03



Final work

- 1. If necessary close the holes between the side mesh barriers.
- 2. Perform reinforcement work. (Fig. C3.04)

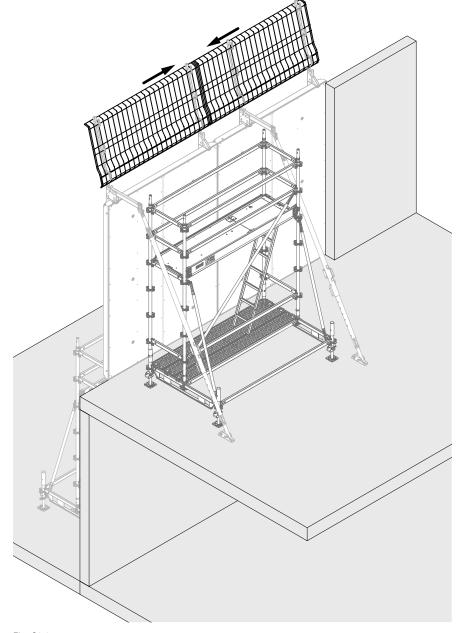


Fig. C3.04



Mounting the closing formwork



Danger

- Crushing risk due to heavy moving parts!
 - ⇒ Leave the area of risk.
 - ⇒ Move formwork element with ropes.
- There is a risk of the formwork element tipping until it is completely anchored!
 Sorious or even fotal injurious due to

Serious or even fatal injuries due to components tipping over.

- ⇒ Remove crane lifting gear only when the push-pull props have been fixed to the ground.
- ⇒ Anchor closing formwork with the primary formwork.

Components

- 6 Lifting Hook MAXIMO 1.5 t
- 7 Push-Pull Prop RS
- 8 Base Plate -2 for RS 210 1400
- 9 Anchor Bolt PERI 14/20 x 130
- 16 Alignment Coupler BFD
- **19** MX 15 Tie
- 17 Clamping Head TRIO

Installation

- 1. Mount lifting hook (6) on the closing formwork (13) and attach lifting gear.
- 2. Position closing formwork (**13**) in assembly position. Swivel the formwork element between the push-pull props diagonally and set up.
- 3. Mount push-pull props (7) using clamping head (17) on the formwork element and temporarily support the formwork element.

(Fig. C3.05)

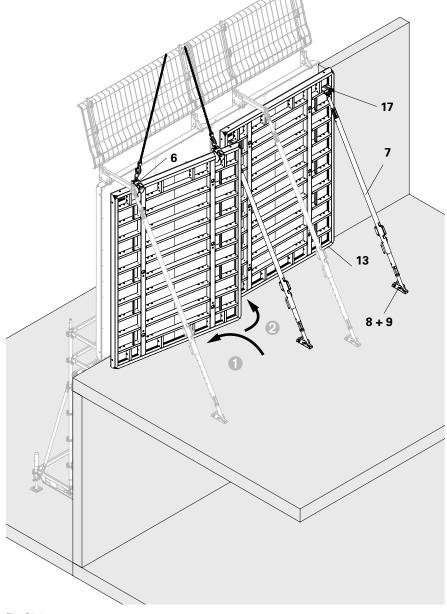


Fig. C3.05



- 4. Bolt base plate (8) to the push-pull prop (7) and fix to the floor with anchor bolt (9).
- 5. Position next formwork element in assembly position.

(Fig. C3.05)

- 6. Connect the formwork elements with alignment coupler BFD (16).
- 7. Install all MX 15 ties (19).
- 8. Remove crane lifting gear and remove lifting hook (6).
- 9. Remove temporary push-pull props (7) again.

(Fig. C3.06)

Concreting

- 1. Position working scaffold between the brace connectors.
- 2. Carry out concreting work.

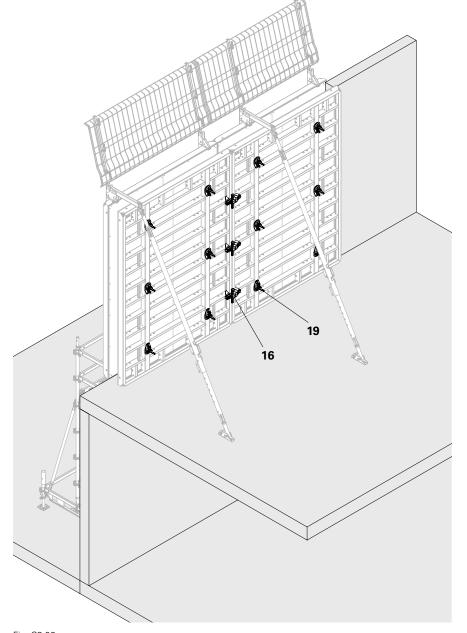


Fig. C3.06

D1 Removal



Striking



Danger

- Crushing risk due to heavy moving parts!
 - ⇒ Leave the area of risk.
 - ⇒ Move formwork element with ropes.
- Formwork elements that remain on the building can fall if supported incorrectly!
 - A fall can result in serious injuries or even death.
 - ⇒ A formwork element or connected element must always cover at least two wall formwork consoles.
- Crushing risk due to overturned components!
 - ⇒ Secure intermediate posts with temporary supports to prevent tipping over.

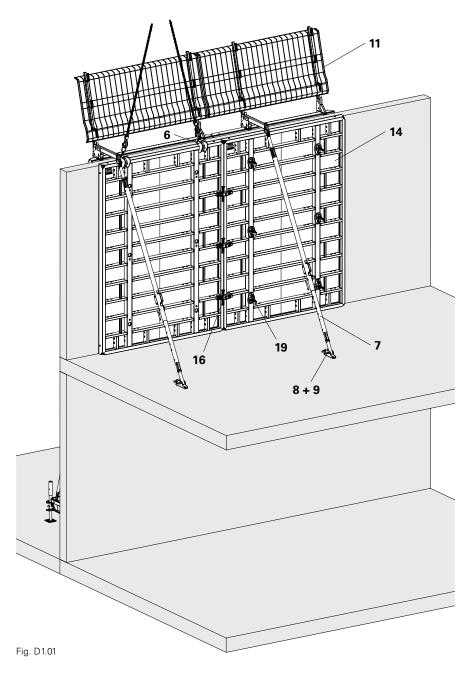
Removing the closing formwork

- Mount lifting hook (6) on the formwork element (14) and attach to crane.
- 2. Remove MX 15 tie (19) and alignment coupler BFD (16).
- 3. Swivel out the formwork element (14) diagonally between the push-pull props (7).
- Move formwork element (14) to the next place of use or store for dismantling.

(Fig. D1.01)

Removing the formwork

- 1. Position working scaffold between the brace connectors.
- 2. Mount lifting hook (6) on the formwork element (14) and attach to crane.
- 3. Remove anchor bolt (9) from the base plate (8).
- 4. Remove formwork element (**14**). (Fig. D1.01)



D1 Removal



Dismantling



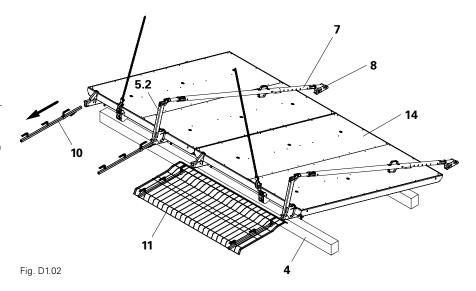
Caution

Crushing risk when dismantling due to folding-back push-pull props!

- ⇒ Leave the area of risk.
- ⇒ Move formwork element with ropes.

Dismantling the primary formwork

- 1. Set aside the formwork element (**14**) and carefully tip back.
- Lower formwork element (14) to approx. 90 cm. Unhook side mesh barrier (11) and remove the guardrail posts (10).
- 3. Rest formwork element (**14**) on square timbers 20/16 cm (**4**). (Fig. D1.02)

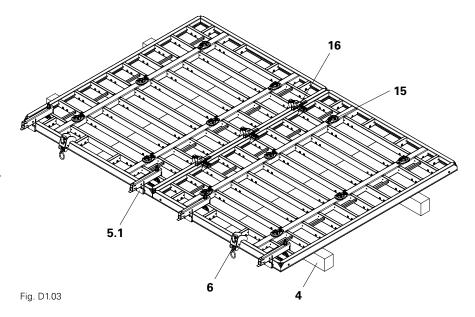


Removing the components

- 1. Remove the push-pull prop (7).
- 2. Dismantle base plate (8) from push-pull prop (7).
- 3. Remove bolts and mounting part (5.2).

(Fig. D1.02)

- 4. Turn formwork element onto formlining side and support with square timbers 20/16 (4).
- 5. Remove lifting hook (6), swivel nut MX 15 (15) and, if necessary, the alignment coupler BFD (16).
- 6. Remove cam nut and base part (5.1).
- 7. Reassemble mounting part (**5.2**) and base part (**5.1**).
- 8. Unscrew wall formwork console and close anchor sleeve M24 with plug. (Fig. D1.03)



Special applications



Slab edge formwork

The wall formwork console MX WK combined with the Plug-in Unit Slab MX WK together form the support construction for slab edge formwork. This allows slab thicknesses of up to 30 cm to be shuttered and concreted. If anti-fall protection is required, this is possible using guardrail posts MXK and side mesh barrier PMB 260 or timber planks. The width of influence is limited in this case to a maximum of 1.5 m.

Components

- 10 Guardrail Post MXK
- Lattice Girder GT 24
- 20 Wall Formwork Console MX WK
- 21 Plug-in Unit Slab MX WK
- Anchor Bolt PERI 14 x 150
- 25 Timber plank 15/3 cm
- 26 Formwork panel

- 7. Attach timber planks 15/3 (25) as anti-fall protection with wood screws or nails to the guardrail posts (10).
- 8. Create slab edge formwork with lattice girders (18) and formwork panels (26) and fix to the plug-in unit with wood screws or nails.

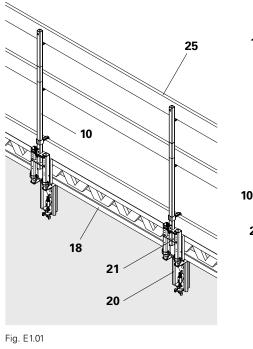
(Fig. E1.01 + E1.02)

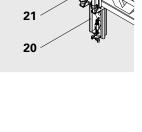


Before assembling the wall formwork console MX WK, move the wall mounting to centre position using the adjusting screw.

Installation

- 1. Drill a hole Ø 14 mm at the assembly position. Distance to upper slab edge 13.5 cm.
- 2. Screw down the wall formwork console (20) with anchor bolt (22), but do not tighten.
- 3. Adjust to the required level using adjusting screw (20.3). Observe a formwork overhang of 1 – 2 cm.
- 4. Tighten anchor bolt (22) with 50 Nm.
- 5. Mount plug-in unit (21) on the wall formwork console (20).
- 6. Engage the guardrail post (10) into the support until the securing hook (10.1) is engaged.





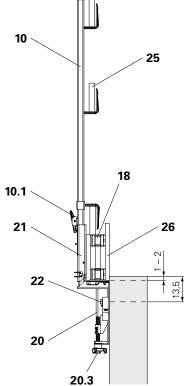


Fig. E1.02

E1 Special applications



Tight space restrictions

The brace connector enables the construction of wall formwork where there are tight space restrictions behind the formwork. The support and structure are carried out from the formlining side.



Danger

- There is a risk of the formwork element tipping until it is completely anchored!
- Tipping risk due to wind forces! Serious or even fatal injuries due to components tipping over.
- ⇒ Secure formwork element to prevent slipping.
- ⇒ Fix push-pull props to the ground.
- ⇒ Remove crane lifting gear only when the push-pull props have been fixed to the ground.



Always begin with the outer bay when positioning the formwork.

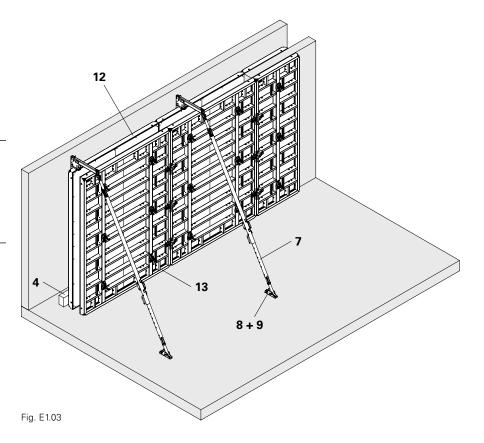
Components

- 4 Timber 20/16 cm
- 7 Push-Pull Prop RS
- **8** Base Plate -2 for RS 210 1400
- 9 Anchor Bolt PERI 14/20 x 130
- **12** Primary formwork
- **13** Closing formwork

Pre-assembly is carried out in the same way as for assembly with the wall formwork console.

Installation

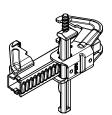
- 1. Attach timber (4) as a stop for the primary formwork on the ground.
- 2. Move primary formwork (**12**) with crane into the assembly position and push it to the stop.
- 3. Set the inclination of the push-pull props (7) to horizontal 60°.
- 4. Fix base plate (8) using anchor bolt (9)
- 5. Set up primary formwork (**12**) with push-pull props.
- 6. Position closing formwork (13).
- 7. Position working scaffold.
- 8. Anchor the closing formwork. (Fig. E1.03)

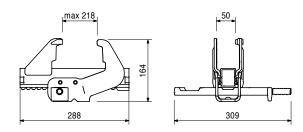




Item no. Weight kg 134321 4.660

Panel Connection Clamp MX VS

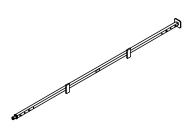


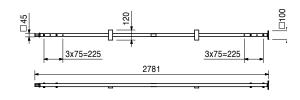


134337

5.080

Operate Bar MX VS

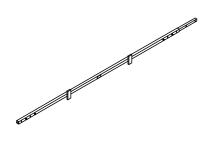


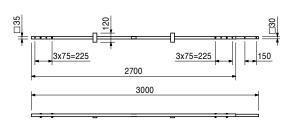


134339

3.820

Extension Operate Bar MX VS



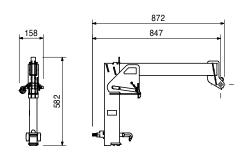


134623

18.300

Brace Connector Formlining Side MX RS







 Item no.
 Weight kg

 115168
 7.460

Lifting Hook MAXIMO 1.5 t

For transporting MAXIMO and TRIO Panels.

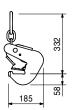
Note

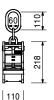
Follow Instructions for Use!

Technical Data

Permissible load-bearing capacity: Steel elements 1.5 t Alu elements 750 kg





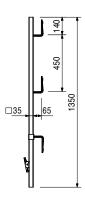


126360 4.920

Guardrail Post MXK

As guardrail for MAXIMO and TRIO.



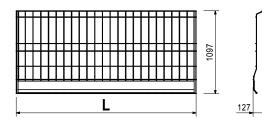


126381	7.140
126376	9.260
126371	17.700
117326	19.700

Side Mesh Barrier PMB
Side Mesh Barrier PMB 90
Side Mesh Barrier PMB 120
Side Mesh Barrier PMB 240
Side Mesh Barrier PMB 260

_	
900	
1180	
2400	
2600	







Item no. Weight kg

023660 3.300

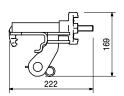
Brace Connector TRIO, galv.

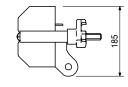
For connecting push-pull props and kicker braces to MAXIMO and TRIO Panels. Mounted on vertical and horizontal struts.



Complete with

1 pc. 027170 Pin Ø 16 x 42, galv. 1 pc. 018060 Cotter Pin 4/1, galv.



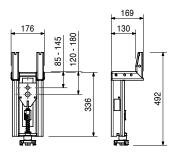


135327

9.500

Wall Formwork Bracket MX WK

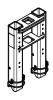


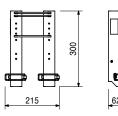


135282

3.410

Slip on Unit Slab MX WK





117020

0.213

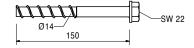
Anchor Bolt PERI 14 x 150

Re-usable.

Approval available (see Z-21.8-1916).



Separate Design Information on request.

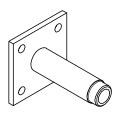




Item no.	Weight kg
026230	1.010

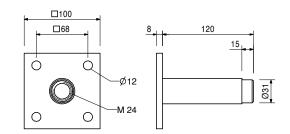
Anchor Sleeve M24

To anchor platform systems.



ı	V	O	1	(

Separate design information on request.



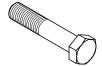
Accessories

026240	0.026	Cone PP Ø 31/26, c = 25
026250	0.005	Plug Ø 26 mm
116233	0.116	Cone FRC Ø 32/52, $c = 40$
026420	0.123	Anchor Positioning Stud M24, galv.
116234	0.033	Plug FRC \emptyset = 32
115150	0.200	Anchor Positioning Stud M24 x 65, galv
123800	0.045	Threaded Cone M24/40

135465 0.452

Hex Bolt ISO 4014 M24 x 100-10.9







117466 10.600

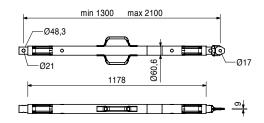
Push-Pull Prop RS 210, galv.

Extension length I = 1.30 - 2.10 m. For aligning PERI Formwork Systems and precast concrete elements.



Note

Permissible load see PERI Design Tables.



118238 12.100

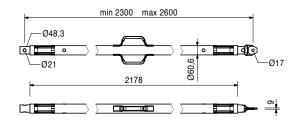
Push-Pull Prop RS 260, galv.

Extension length I = 2.30 - 2.60 m. For aligning PERI Formwork Systems and precast concrete elements.



Vote

Permissible load see PERI Design Tables.

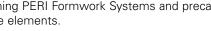




Item no. Weight kg 117467 15.500

Push-Pull Prop RS 300, galv.

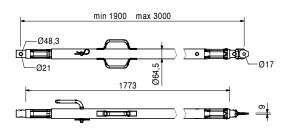
Extension length I = 1.90 - 3.00 m. For aligning PERI Formwork Systems and precast concrete elements.



Note

Permissible load see PERI Design Tables.





117468 23.000

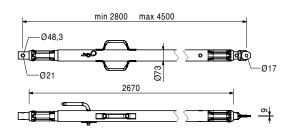
Push-Pull Prop RS 450, galv.

Extension length I = 2.80 - 4.50 m. For aligning PERI Formwork Systems and precast concrete elements.

Note

Permissible load see PERI Design Tables.





117469

39.900

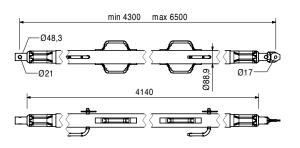
Push-Pull Prop RS 650, galv.

Extension length I = 4.30 - 6.50 m. For aligning PERI Formwork Systems and precast concrete elements.

Note

Permissible load see PERI Design Tables.





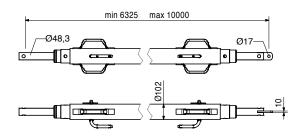
028990

115.000

Push-Pull Prop RS 1000, galv.

Extension length I = 6.40 - 10.00 m. For aligning PERI Formwork Systems.

Permissible load see PERI Design Tables.





Item no. Weight kg 103800 271.000

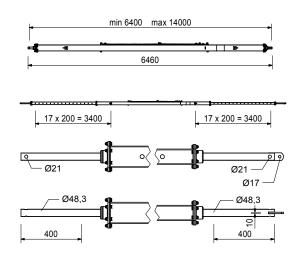
Push-Pull Prop RS 1400, galv.

Extension length I = 6.40 - 14.00 m. For aligning PERI Formwork Systems.

Note

Permissible load see PERI Design Tables. Chain can be operated from bottom.





126666 3.070

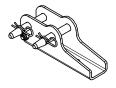
Base Plate-3 for RS 210 - 1400

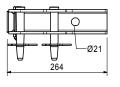
For assembly of Push-Pull Props RS 210, 260, 300, 450, 650, 1000 and 1400.

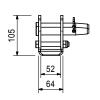
Complete with

2 pc. 105400 Pin Ø 20 x 140, galv. 2 pc. 018060 Cotter Pin 4/1, galv.

1 pc. 113063 Bolt ISO 4014 M12 x 80-8.8, galv. 1 pc. 113064 Hex Nut ISO7042-M12-8-G, galv.







124777

0.210

Accessories

Anchor Bolt PERI 14/20 x 130

117343

3.250

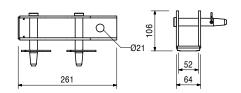
Base Plate-2 for RS 210 - 1400, galv.

For assembly of Push-Pull Props RS 210, 260, 300, 450, 650, 1000 and 1400.



Complete with

2 pc. 105400 Pin Ø 20 x 140, galv. 2 pc. 018060 Cotter Pin 4/1, galv.



Accessories

0.210 124777

Anchor Bolt PERI 14/20 x 130

124777

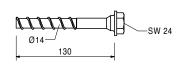
0.210

Anchor Bolt PERI 14/20 x 130

For temporary fixation to reinforced concrete structures.

Note

See PERI Data Sheet! Drilling Ø 14 mm.



The optimal System for every Project and every Requirement



Wall Formwork



Column Formwork



Slab Formwork



Climbing Systems



Bridge Formwork



Tunnel Formwork



Shoring Systems



Construction Scaffold



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Safety Systems



System-Independent Accessories



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