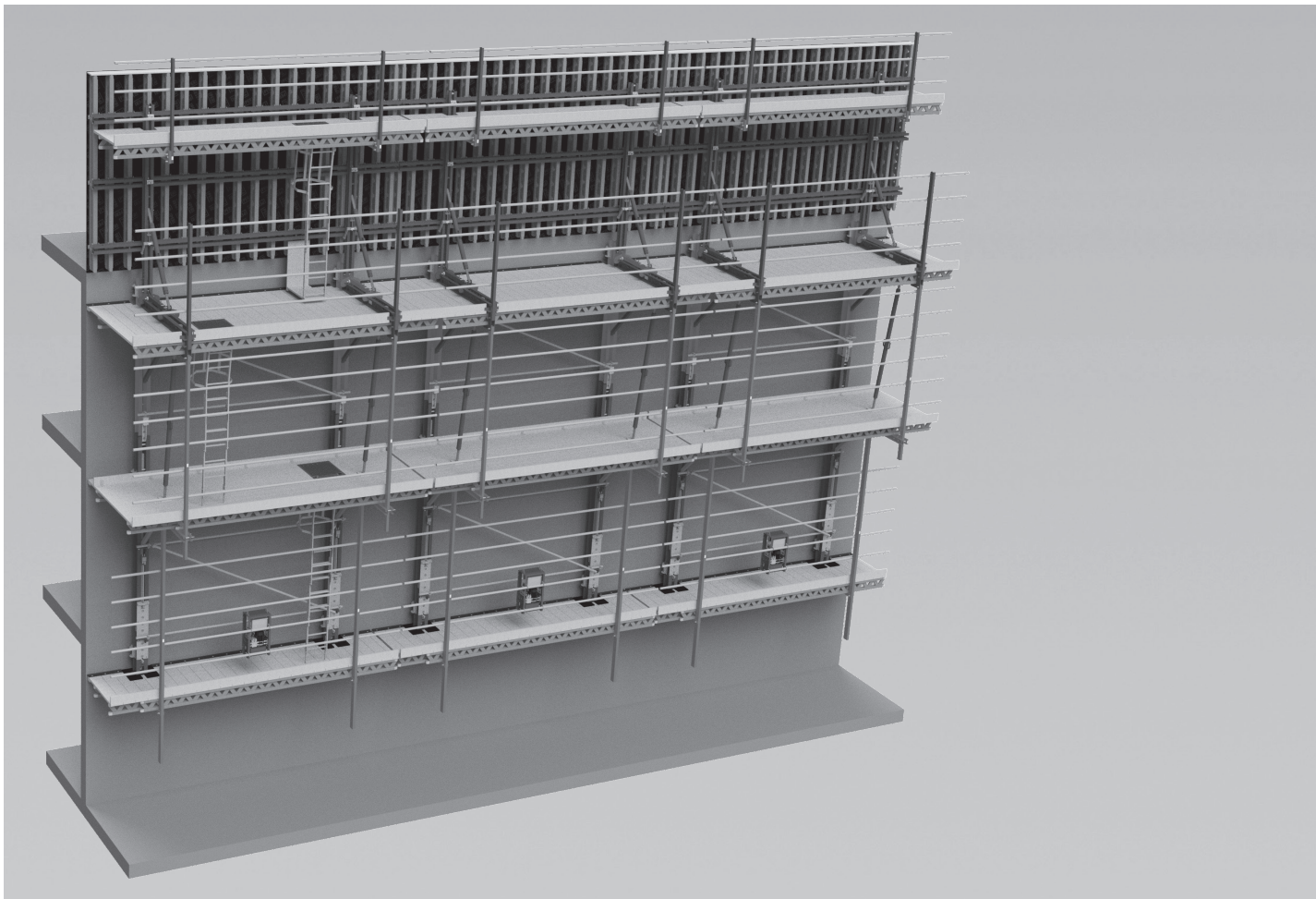
PERI

RCS C MAX
Rail Climbing System

Instructions for Assembly and Use – Standard configuration – Version 1.2



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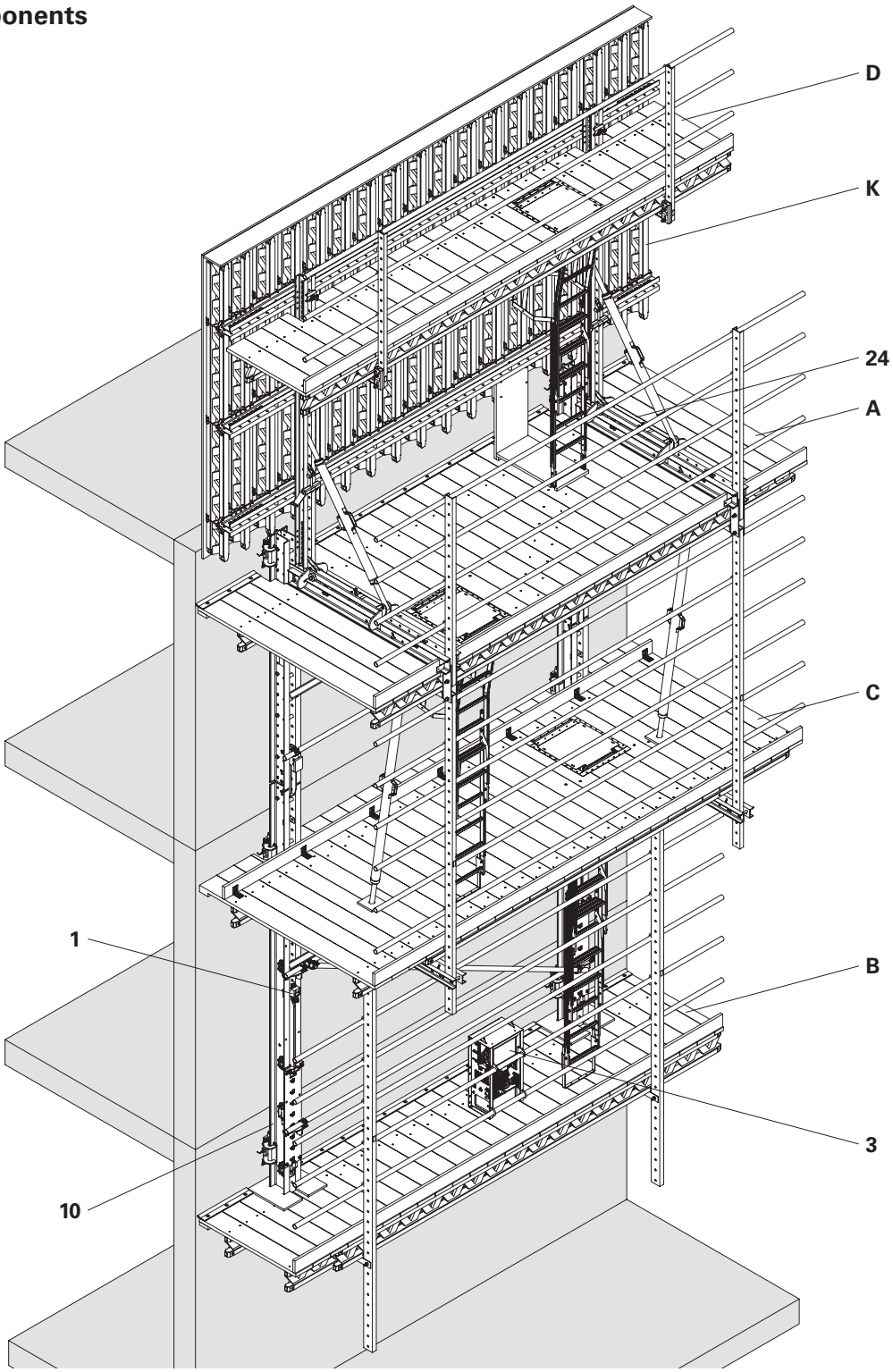
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Main components



A Work platform
B Finishing platform
C Intermediate platform
D Concreting platform
K Formwork

1 Climbing Cylinder RCS MAX 75
3 Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V
10 Driving Rail RCS C MAX
24 Crossbeam Head RCS 220 VARIO

Key

Pictogram | Definition


Danger/Warning/Caution


Note


To be complied with


Load-bearing point


Visual inspection


Tip


Incorrect use


Safety helmet


Safety shoes


Safety gloves


Safety goggles


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


Observe additional documentation

Arrows

Arrow representing an action

Arrow representing a reaction of an action*

Arrow representing forces

* If not identical to the action arrow.

Safety instruction categories
The safety instructions alert site personnel to the risks involved and provide information on how to avoid these risks. Safety instructions can be found at the beginning of the section or before instructions for action and are highlighted as follows:

Danger
This sign indicates an extremely hazardous situation that could result in death or serious, irreversible injury if the safety instructions are not followed.

Warning
This sign indicates a hazardous situation that could result in death or serious irreversible injury if the safety instructions are not followed.

Caution
This sign indicates a hazardous situation that could result in minor or moderate injury if the safety instructions are not followed.

Note
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 hazard!
Consequences of non-compliance.
⇒ Preventative measures.

Dimensions
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 for all component sizes contained in the standard configuration.

To facilitate understanding, illustrations are sometimes incomplete. The safety equipment that is not shown in these detailed descriptions must nevertheless be available.

Terminology
Components are not always named in full so that they are easier to read.
All components deemed valid according to the program overview may be used. Exceptions are specified.

Target groups

Contractors
These Instructions for Assembly and Use are designed for contractors who either
- assemble, modify and dismantle PERI systems, or
- use them, e.g. for concreting, or
- allow them to be used for other operations, e.g. carpentry or electrical work.

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 protection 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
- is appointed by the contractor,
- must be on site for all system operations,
- prepares and updates the plan for assembly, modification and dismantling,
- prepares and updates the plan for use of the system by the user,
- supervises the assembly, modification and dismantling work (supervisor).

Competent persons qualified to carry out inspections
Due to the specialist knowledge gained from professional training, professional 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 personnel
PERI systems may only be assembled, modified or dismantled by personnel who are suitably qualified to do so. Qualified personnel must have completed a course of training** in the work to be performed, covering the following points at least:
- Explanation of the plan for the assembly, modification or dismantling of the system in an understandable form and language.
- Description of the measures for safely assembling, modifying or dismantling the system.
- Naming of the preventive measures to be taken to avoid the risk of persons and objects falling.
- Designation of the safety precautions in the event of changing weather conditions that could adversely affect the safety of the system, as well as the personnel concerned.
- Details regarding permissible loads.
- Description of all other risks and dangers associated with assembly, modification or dismantling operations.



- **Ensure that the respective current version of relevant national guidelines and regulations are complied with!**
- **If no country-specific regulations are available, PERI recommends that you proceed according to German guidelines and regulations.**
- **A competent person must be on site when any work is carried out on the climbing system, as well as during the climbing procedure.**

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

** Instructions are given by the contractor themselves or a competent person selected by them.

Product description

PERI products have been designed to be used exclusively in industrial and commercial sectors by suitably trained personnel only.

The RCS C MAX Rail Climbing System is a standard application of the RCS Rail Climbing System.

It provides wall formwork and safe work areas for the construction of reinforced concrete façades and cores for high-rise buildings and is moved vertically in cycles as a climbing unit (formwork and scaffold) using integrated driving rails.

By using networked RCS MAX Hydraulic Units, it is possible to move all climbing units synchronously and simultaneously – without creating open building edges.

Standard configuration:
These Instructions for Assembly and Use describe the standard assembly of the RCS Rail Climbing System, variant C MAX, as a climbing system, consisting of:

- Two Climbing Rails RCS extended via Climbing Rail Hinge RCS with Driving Rails RCS C MAX.
- Anchored and guided in Climbing Shoes RCS, fixed to the previous concreting sections.
- Self-climbing in steps by means of Climbing Cylinder RCS MAX 75.
- Powered by connected Hydraulic Pumps RCS MAX, 2x 210 bar, 380-460 V.
- Bracket support structures to support work platform level 0, intermediate platform level -1 and suspended finishing platform level -2.
- With VARIO GT 24, TRIO or MAXIMO wall formwork to be anchored, using a Strongback SRU supported on a Carriage RCS, retractable up to 90 cm.
- Concreting platform level +1 on the strongback and optional intermediate platform on the formwork.
- Ladder accesses with hatches for access to all levels.
- Lateral and rear safety protection, with enclosure if necessary.

The load-bearing system is a bracket-like truss construction and is designed to support wall formwork in accordance with DIN EN 12812:2008-12.

The platforms consist of plank decking or multi-layer plywood sheets on platform beams and are designed as working scaffolds in accordance with DIN EN 12811-1:2004-03.

The rail climbing system is created by connecting the wall formwork and scaffold unit, which is implemented as a self-climbing unit with hydraulic driving rails.

Main functions

- Load-bearing system for supporting the wall formwork.
- Work areas on several levels for concreting, operating the formwork, for the climbing procedure work steps and for carrying out finishing work.
- The system prevents workers from falling and, if an enclosure is used, also protects them from atmospheric influences.
- The system protects workers from falling objects.
- Synchronous and guided self-climbing of all platforms without creating open building edges.

Foreseeable misuse

The RCS C MAX Rail Climbing System is not intended for the following applications under any circumstances:

- Transport/lifting of persons
  - Exception: operating and monitoring personnel required for the climbing procedure.
- Transport of other loads, climbing up and down for vertical transport of material.
- Welding work and carrying out welding work on the work platforms (fire hazard).
- Working with a naked flame (fire hazard).
- Exceeding the permissible load-bearing capacity and load limits.
- Carrying out work in impermissible wind conditions.

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 contractor must ensure that the personal protective equipment required for cleaning, maintenance and repair work such as

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

is available and used as intended.

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

Cleaning tools must be adapted to the respective surfaces of the components so that they are not damaged.

Spray the formwork on both sides with concrete release agent before each use; this makes the formwork easier and faster to clean. Spray the concrete release agent very thinly and evenly!

Do not spray work platforms and access routes with concrete release agent.
Slip hazard.

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 formlining elements with concrete release agent immediately after deshuttering; 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 recesses and built-in parts with double-head 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 supported formwork elements, suitable support, e.g. squared 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 internal vibrator is accidentally inserted between the reinforcement and formlining.

Never clean powder-coated components, e.g. elements and accessories, with steel brushes or hard metal scrapers; this preserves the powder coating. Use spacers for reinforcements with large or flat supports; this largely avoids indentations in the formlining 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.

Additional technical documentation

- Separate structural design information
- Approvals
  - Z-21.6-1766 PERI Screw-On Cone
  - Z-21.6-1767 PERI Climbing Cone
- Instructions for Assembly and Use for the formwork system used
- Instructions for Use
  - Climbing Traverse 9 t
  - Lifting Eye-2 BR 2.5 t ga
- Assembly instructions
  - RCS MAX Driving Rail and Hydraulics
  - Assembly instructions for the hydraulic unit (manufacturer)
  - Assembly instructions for the climbing cylinder (manufacturer)

Instructions for Use

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

Only PERI original components may be used. The use of other products and spare parts is not allowed and represents a misapplication with associated safety risks.

Changes to PERI components are not permitted.

Only ever use approved and calculated components.

Operation with damaged or incomplete load-carrying equipment is not permissible.

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

- The description of the assembly and operation of the assemblies and components in these Instructions for Assembly and Use is intended as an example.
- For use on the construction site, a project-specific assembly plan is required.
- The project-related assembly plan from PERI is binding for assembly operations

RFID transponder

Individual components are equipped with an RFID transponder. RFID transponders combine hardware with additional software to create a smart product.
Depending on the component and digital solution, you can:

- Call up technical documents.
- View maintenance plans.
- Track information on transport and logistics.

For more information, see "RFID LA-TAG Assembly Set User Information".

Disposal

The disposal of components and materials must be arranged by a person authorised to do so.

- Materials are to be sorted correctly and according to type.
- Dispose of the materials in accordance with the applicable national regulations and guidelines.
- Consult the relevant safety data sheet when disposing of hydraulic oil, auxiliary materials and consumables.

Cross-system

Safety instructions apply to all service life phases of the system.

General information
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. The Instructions for Assembly and Use are not a substitute for a risk assessment!

Observe and comply with the safety instructions and permissible loads.

For the application and inspection of PERI products, observe the current laws and regulations in force in the respective countries.

Materials and working areas are to be inspected before each use and assembly for:
- damage,
- stability and
- functional correctness.

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

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

When on slab formwork, scaffolds and working platforms:
- do not jump,
- do not run,
- do not throw anything off them.

Components provided by the contractor must comply with the requirements stipulated in these Instructions for Assembly and Use and all applicable laws and standards. Unless otherwise indicated, the following applies in particular:
- Timber components:
  Strength class C24 for solid wood according to DIN EN 338:2016-07.
- Scaffolding tubes:
  Galvanised steel tubes with minimum dimension Ø 48.3 x 3.2 mm according to DIN EN 12811-1:2004-03 4.2.1.2.
- Scaffolding tube couplings:
  according to DIN EN 74-1:2022-09 and DIN EN 74-2:2022-09.
- Wood screws: The wood screws are selected based on the project requirements. Observe the project requirements for the fasteners.

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 defined on the basis of this risk assessment.

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

Nails and wood screws must not protrude.
Only allow other connecting components to protrude to the extent that is necessary. If necessary, mark protruding components or fit them with protective material.

Secure all bolts with cotter pins and all screws with nuts.

Before and after extraordinary events that may have damaging effects on the safety of the system, the contractor must immediately
- produce another risk assessment, the results of which must be used to implement suitable measures to ensure the stability of the 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 detect and repair damage in good time in order to ensure safe use of the system.

Exceptional events could be:
- accidents, fire, explosions, collisions,
- long periods of non-use,
- natural events, e.g. heavy rainfall, heavy snowfall, significant icing, storms or earthquakes.

Suitable measures could be:
- removing nets/tarpaulin,
- clearing snow and ice,
- reducing live loads.
- securing loose materials.

Assembly, modification and dismantling work
PERI systems may only be assembled, modified or dismantled under the supervision of a person qualified to do so and by technically suitable employees. 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 guarantee safe assembly, modification and dismantling of the climbing unit.



The contractor must ensure that the personal protective equipment required for the assembly, modification or dismantling of the scaffolding system, e.g.
- Safety helmet,
- Safety shoes,
- Safety gloves,
- Safety goggles,

is available and used as intended.

For work at a higher level, use an approved ladder or platform system, or an assembly scaffold.



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 to be used to prevent falling is determined by the contractor.

The contractor must
- provide safe working areas for site personnel, which are to be reached through the provision of safe access ways. cordon off and clearly mark danger zones.
- guarantee stability during all stages of construction, in particular during assembly, modification and dismantling operations.
- ensure and demonstrate that all loads that occur are safely transferred.

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

If the 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 then be coordinated.

When systems are used in publicly accessible areas,
- measures to prevent unauthorised use, e.g. enclosure of access areas, must be taken.
- Measures are taken against injuries caused by bumping against protruding components, e.g. assembly of protective components.

Always keep the contact surfaces of the system free of dirt, objects, snow and ice.
Close off the system in extreme weather conditions.

System-specific

Warning
In cases of leakage, hydraulic oil can escape at high pressure!
The oil can penetrate the skin and cause severe irreversible injuries.
⇒ Do not use parts of your body to cover the leakage.
⇒ Stay away from the leakage point.

Safety instructions apply to all service life phases of the system.

Make sure that the guardrails and/or edge covers at building openings and projections are fully installed before accessing the climbing system.

Before entering the system, check for completeness of the platform deck and for danger spots and use PPE if necessary.

Deshutter the concreting sections only when the concrete has sufficiently hardened and the person in charge has given the go-ahead for deshuttering to take place.

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

Inspection of the anchoring and associated components must be carried out by the party responsible.

As a result of the relocation procedure, falling edges are formed between the platforms. Such affected areas are to be cordoned off.

Building materials or tools must not be transported as part of the relocation operation. Exceptions to this can be determined through the operational working and assembly instructions.

The transport of persons during the relocation process is strictly prohibited. This does not apply to the operating personnel required for relocation operations.

Working areas at great heights are to be secured by means of appropriate measures to prevent objects from falling down.

The enclosure of the platform or mounting of additional surfaces exposed to the wind changes the degree of stability and must be rechecked. If necessary, additional measures must be implemented.

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

Welding or abrasive cutting work is prohibited on the platforms due to the associated fire hazard.

Reliable lightning conduction must be ensured by the contractor.

Assembly work
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.

During the transportation procedure, only use the specified attachment points for components.

Avoid standing under suspended loads. If work under suspended loads cannot be avoided, come up with suitable safety measures and apply them. Avoid standing between a fixed object and an object that is drawing near.

Secure interim assembly states by means of temporary supports in order to prevent any items from toppling over.

The contractor must make a level assembly area with sufficient load-bearing capacity available.

Unexpected 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 minimise the risk.

If guardrails 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 anti-fall equipment is deemed to be inappropriate, personal protection equipment (PPE) can be used if suitable fixing points are available.

Site personnel are forbidden to remain in areas below where assembly work is being carried out, unless the danger zone has been provided with sufficient protection against falling, overturned, sliding or rolling objects and masses. Cordon off and clearly mark any danger zones and check that these are in place and complete every time work is commenced.

Do not walk on components and assembly units.
Find a secure standing position next to the components or assembly units. Use assembly scaffolds.

Always keep components and assembly units free of dirt, ice and snow.

Access
Safe access to all working areas must be guaranteed at all times.

Hatches and openings to accessible working areas must be kept closed during working operations.

Use walkways, stairs, stair towers or site lifts as access routes. Ladders are suitable for use as passageways in exceptional cases only.

Ladders must not be connected to each other for more than two levels and should be offset against one another.

Ladders must be secured on the outer side by means of appropriate anti-fall equipment such as ladder cages or safety nets.

Building edges at passages and openings in accessible areas must be secured.

In case of danger, it must be ensured that working areas can be vacated via emergency escape routes or rescue equipment.
It must also be ensured that at least one emergency escape route or piece of rescue equipment can still be used if the power supply fails.
Determine and apply all appropriate measures.

Throughout the entire relocation procedure, ensure that site personnel can still use the emergency escape route.

In case the access hatches are blocked when retracting the formwork, ensure that site personnel can still use the emergency escape route.

Protection against falling components
Work activities may not be carried out simultaneously on areas positioned on top of each other if the lower working areas are not protected against falling objects.

Avoid installing working areas and access routes in danger zones.
If this is not possible due to work procedures, suitable protective measures must be available to provide protection against falling objects. This also applies to work that only takes a short period of time.
Safety nets (mesh size ≤ 2 cm) and platform planking are considered to be suitable means and are to be installed very close to the structure (distance ≤ 5 cm).

Secure tools and material to prevent them from falling down. Remove concrete residue and other dirt as soon as possible, at the latest before the next climbing cycle. The platforms are to be kept clean at all times.

Operational working areas at great heights are to be secured by means of appropriate structural measures to prevent objects from falling down.

Components that are likely to become unstable
Components
Secure components that are likely to become unstable with suitable means, e.g. using push-pull props, or leave them attached to the crane until the tipping hazard has been eliminated.

Loitering in the tipping range is prohibited. Draw attention to and clearly mark any danger zones.

If necessary, cordon off the danger zones with suitable means. Check that safety signs and barriers are in place before commencing work.

Climbing procedure
Take into consideration the permissible wind speed limit for the climbing procedure.

Personnel, building materials or tools must not be transported as part of the relocation operation. Exceptions to this can be determined through the operational working and assembly instructions on the basis of a corresponding risk analysis.

The climbing procedure must be monitored by a competent and qualified person.

During the climbing procedure, clamping and crushing hazards are brought about by moving components.

The individuals carrying out the climbing procedure must be fully informed about all possible hazards.

All persons who are not required to carry out the climbing procedure must leave the danger zones.

When climbing with the hydraulic climbing device, specifications regarding the arrangement of the hydraulic hoses must be observed. If the standard arrangement is not possible, an authorised person must determine a safe and secure alternative.

As a result of the moving procedure, open edges are formed between the platforms as well as at building openings. When working in this area, personnel must be secured against falling, e.g. by temporary guardrails or wearing PPE.

Secure all resulting shearing edges by means of covers. Cordon off danger zones during the climbing procedure.

In case of a malfunction, lower the platform to the next possible position. Personnel are to leave the climbing unit in a safe and secure manner and a person who is authorised to give instructions is to be notified immediately.

The climbing system cannot be anchored for the next concreting section until the required concrete strength has been achieved.

Maintenance and repairs
The components of the climbing system are to be inspected before every use to ensure that they are in flawless condition.
Only flawless materials may be used.
Have the climbing units checked monthly for signs of damage by competent persons who are authorised to give instructions.

Remove any loose concrete residue.

Immediately remove any dirt that impairs functionality.
Remove and replace damaged components.

In case of overload or damage, stop work on and under the platforms, determine the cause, set down and replace damaged components.

If the maximum permissible wind speed has been exceeded, temperatures are outside the area 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 must be checked.

Safety components:
- A visual inspection is to be carried out by authorised personnel before each climbing procedure.
- Before each climbing procedure or each assembly procedure, a functionality check is carried out by qualified personnel.
- If parts need to be replaced, only PERI original components may be used.
- Repairs are to be carried out by qualified PERI personnel only.
- In the case of overloading or recurrent damage, stop work operations on and under the platforms, determine the cause and rectify.

Supporting structure:
- A visual inspection is to be carried out by authorised personnel before initial use.
- Only PERI original components are to be used for repairs or replacement.
- In the case of overloading or recurrent damage, stop work operations on and under the platforms, determine the cause and rectify.

Other components:
- Repairs are carried out by authorised personnel and the person authorised to give instructions is to be informed.
- In the event of frequently recurring damage, determine the cause and remedy it.
- Route hydraulic lines and power cables in such a way that they cannot be disconnected or sheared off, and that they do not pose a tripping hazard.

Hydraulic components
Visual inspections are to be carried out by authorised personnel at regular intervals.
Qualified personnel are to carry out a functionality check before every working cycle or before assembly takes place.
If any defects are discovered, repairs are only allowed to be carried out by qualified personnel.

Hydraulic hoses have an expiry date. Observe the manufacturer-specific information.

Do not suspend any objects from the hydraulic hoses.

Observe the manufacturer-specific information regarding inspection and maintenance of the hydraulic unit.

For correct use and disposal of the hydraulic oil, observe the manufacturer-specific instructions.

Thicken spilled hydraulic oil immediately with oil binder and mop it up.



Wear safety goggles and suitable protective gloves when working on the hydraulic system.



PERI recommends using an oil pan to collect hydraulic oil from the hydraulic unit.

Note
Always switch off the power to the hydraulic unit and prevent it from being switched on again as soon as the moving procedure involving the climbing system has been completed.
This safety measure also applies to the following:
- Assembly.
- Maintenance.
- Repairs.
- Inspections.
- Dismantling.

Approval for use is the responsibility of the operating personnel.

Electrical components

Danger
High electric voltage at the hydraulic unit!
Death or serious injury can result from an electric shock.
⇒ Connection only by qualified personnel.
⇒ Only qualified personnel may carry out work and repairs on the electrical components of the systems.
⇒ Only approved, undamaged and tested connecting cables should be used.

Only operate the hydraulic unit using the current and voltage specified on the type plate.

Do not suspend any objects from the electrical lines.

Storage and transportation

Store and transport components in such a way that no unintentional change in their position is possible. Detach load-lifting accessories and lifting gear 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 load-lifting accessories and lifting gear and only those load-bearing points provided on the component.

During the relocation procedure
- Ensure that components are picked up and set down in such a way that unintentional falling over, falling apart, sliding, falling down or rolling is avoided.
- No one is allowed to remain under the suspended load.

Pre-assembled assemblies should always be guided 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 substrate must have sufficient load-bearing capacity.

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



In the case of hydraulic components, follow the instructions found in the Assembly Instructions for "RCS MAX Driving Rail and Hydraulics".

Component overview and tightening torques

Pos. no.	Designation	Art. no.
1	Climbing Cylinder RCS MAX 75	136107
2a	Hydr.Twin Hose RCS 10 m	110069
2b	Hydr.Twin Hose RCS 20 m	110070
2c	Hydr.Hose 853-2SN-DN08-FF 1 m	129035
2d	Hydr.Hose 853-2SN-DN08-FF 2 m	129036
2e	Hydr.Hose 853-2SN-DN08-FF 5 m	129419
2f	Hydr.Hose 853-2SN-DN08-FF 10 m	129420
2g	Hydr.Hose 853-2SN-DN08-FF 15 m	129421
2h	Hydr.Hose 853-2SN-DN08-FF 20 m	129422
3	Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V	135500
4	Power Cab. RCS MAX CEE-32A 2 m	135499
5	Climbing Shoe RCS	109468
6	Wall Shoe RCS	109503
7	Power Conn. Cable RCS MAX 10 m/20 m	135498/ 135501
8	Conn. Power Cable RCS MAX	135502
9	Climbing Rails RCS	–
10	Driving Rail RCS C MAX	136110
11	Data Conn. Cable RCS MAX 10 m/20 m	135503/ 135504
12	Conn. Data Cable RCS MAX	135505
13	Remote Contr. RCS MAX 15 m	135506
14	Display RCS MAX	135507
15	Fitting Pin Ø26 x 120 mm	111567
16	Screw ISO 4017 M12 x 60-8.8	126001
17	Washer ISO 7089 200 HV, A12	780702
18	Nut ISO 4034 M12-8	723805
19	Data Conn. RCS MAX wireless	136531
20	Remote Contr. RCS MAX wireless	136530
21	Pallet RB Hydr.Pump RCS MAX	136165
22	Power Cable RCS MAX 2 m	136532
23	Climbing Rail Hinge RCS	110569
24	Crossbeam Head RCS 220 VARIO	118094
25	Formwork Girder GT 24	–
26	Screw DIN 603-M08 x 200-4.8-ga-Nu	024390
27	Planking	–
28	Intermediate Platform Beam RCS 241	109717
29	Multifunction Plate RCS	136622
30	Lateral plank	–
31	Toe Board 15 x 3	–
32	Hatch-2 RCS 55 x 60 foldable	126431
33	Wood-Screw 6 x 40 SK-TX30 HPI	024540
34	Angle Connector 90 x 90 x 65 mm	123478

Pos. no.	Designation	Art. no.
35	Spax Screw TX 30 6 x 80	–
36	Wood Screw 5 x 20 SK-TX25 HSX	111437
37	Guardrail Post RCS 226	109720
38	Clamp A64 DIN 3570-M12-ga	110296
39	Scaff. Tube 48.3 x 3.2 mm lfm ga	026415
40	Finishing Platform Beam RCS 122	109722
41	Platform Beam RCS/SRU 113	114301
42	Hex-Wood-Screw 8 x 60 DIN 571 ga	024270
43	Guardrail Post RCS/SRU 184	114328
44	Hex-Nut ISO 4032-M12-8-ga	710330
45	Ladder 180/6	051410
46	Ladder 220/6	051420
47	End Ladder 180/2 cpl	103724
48	Ladder Base 30 ga	109105
49	Ladder Safety Cage 75	104132
50	Ladder Safety Cage 150	051450
51	Screw ISO 4017-M12 x 040-8.8-ga	710224
52	Hex-Nut ISO 7040-M12-8-ga	710381
53	Ladder hook	103718
54	VARIO GT 24 Girder-Wall Formwork	–
55	Steel Waler Universal SRU U120	–
56	Waler Fixation U100 – U120	110059
57	Adjusting Unit Carriage RCS	110400
58	Ladder support	–
59	Screw ISO 4014-M08 x 100-8.8-ga	710285
60	Plank 12 x 4	–
61	Screw DIN 603 M8 x 125 MU	024360
62	Climbing Traverse RCS 9 t	112986
63	Spacer-2 LPS 52	130262
64	Concrete Cone KK M30-80/52	031652
65	Hex-Nut ISO 4032-M8-8-ga	024090
67	Screw DIN 603 M8 x 70 MU	024140
68	Washer ISO 7094-08-100HV-ga	113347
69	Handrail boards	–
70	Guardrail Post Holder Multi	126088
71	Fitting Pin Ø21 x 120 mm	104031

Component overview and tightening torques

Pos. no.	Designation	Art. no.
72	Cotter Pin 4/1	018060
73	Screw DIN 603-M08 x 045-4.8-ga-Nu	710295
74	Wall Shoe RCS pivoted	110667
75	Wire nail 3 x 80	710312
76	Climbing Cone-2 DW 20/M30 ga	030920
77	Threaded Anchor Plate DW 20	030860
78	Tie Rod DW 20, special length	030700
79	Anchor Posit. Plate M30 ga	029380
80	Advancing Screw M30 ga	029450
81	Screw ISO 4017-M30 x 70-8.8-ga	029420
82	Anchor Posit. Stud M30 ga	026450
83	MAXIMO Wall Formwork	–
84	Pin Set RCS MAX	136109
85	Scaffold Tube Adaptor Ø48 RCS	110084
86	Swivel Coupling AF 48/48	017010
87	Diagonal Strut RCS 212	110012
88	Cotter Pin 5/1	022230
89	Heavy Duty Spindle SLS 140-240	101776
90	Hex-Wood-Screw 6 x 20 DIN 571-ga	029440
91	Screw-On Cone DW26/M30	057257
92	Threaded Anchor Plate DW 26	030870
93	Visual Aid Climbing Shoe RCS	135962
94	Cover Tape LPS 0.20 x 10 m	125973

Pos. no.	Designation	Art. no.
95	Cover Mat RCS 70 x 70	114113
96	Carriage Crank Lever SW19 RCS	110094
97	Guardrail Post 509 RCS	109773
98	Screw ISO 4017 M20 x 40-8.8	706458
99	Hex-Nut ISO 7040-M20-8-ga	781053
100	Hook Tie DW15 x 400 mm ga	023650
101	Wingnut Pivot Plate DW 15	030370
102	Strongback Adaptor RCS/SRU	115325
103	Formwork Waler CB 150	127633
104	Clamp Adapter MX TR-SRU	127659
105	Formwork Stop L x 12 x 3	–
106	Screw ISO 4014 16 x 130-8.8	710232
107	Hex-Nut ISO 7040-M16-8-ga	070890
108	Washer ISO 7094-16-100HV-ga	113349
109	Excentric Lever RCS	110950
110	Project-specific bracing	–
111	Adjustable spindle	–
112	Diagonal Strut RCS 142	109718
113	Guardrail Post 384 RCS	109721
114	TSS-Torx 6 x 60	024470
115	Lifting Eye-2 BR 2.5 t ga	127834
116	Spacer for BR	020620

Tightening torques

Unless otherwise indicated, PERI recommends the following guide values for screw connections as "hand-tightened" tightening torques $M_{A,hand\text{-}tightened}$.
These guide values are based on DIN EN 15048-1:2016-09 with minimum Safety Factor 3 against breakage.

Quality class	**Quality 4.6**		**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 Nm		100 Nm
Screw M24	150 Nm		150 Nm
Screw M30	260 Nm		260 Nm
Screw M36	350 Nm		350 Nm

Tightening torques have been determined for the following components:

Scaffolding tube coupling	50 Nm

Climbing unit
The construction of the climbing system varies depending on the storey height, the formwork used and the type of lateral protection.

In all versions, the climbing rails (**9**) and Driving Rails RCS C MAX (**10**) are supported by climbing shoes (**5**) and wall shoes (**6**) which are mounted on parts of the structure that have already been assembled.

The crossbeams for the work platform with carriage and strongback for the formwork system are mounted on the climbing rails (**9**).
Intermediate and finishing platforms are mounted on additional platform beams.

The lateral protection and ladder cage can be made of scaffolding tubes or handrail boards.

Alternatively, an additional netting enclosure can be fitted or a complete enclosure attached to squared timbers. Implementation of these variants is described in detail in the associated structural design information.

All of the following variants are execution examples.

Variant 1:
Used with VARIO GT 24 Girder-Wall Formwork and scaffolding tubes as lateral protection.
- Concreting platform with Platform Beam RCS/SRU 113.
- Storey height h_B = 3.60 m.

(Fig. A1.01)

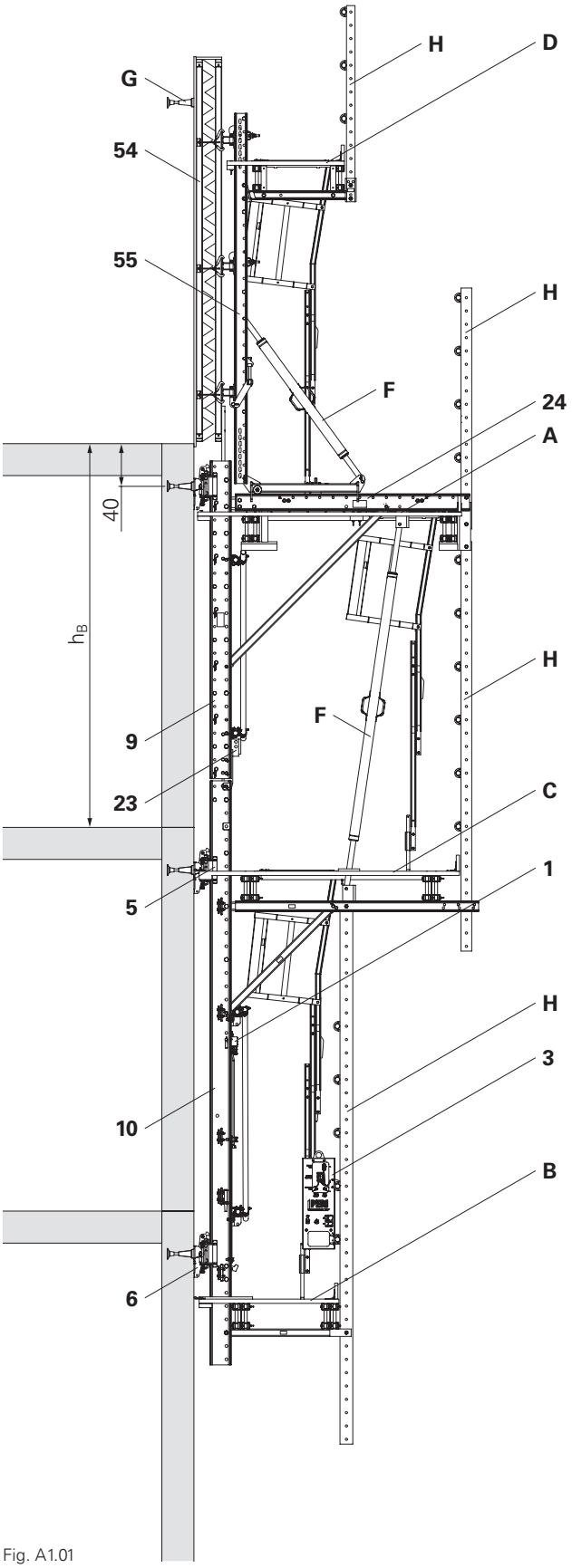


Fig. A1.01

Variant 2:
Used with MAXIMO formwork and squared timber with full enclosure.

- Concreting platform with Platform Beam RCS/SRU 113 and handrail boards.
- Storey height h_B = 2.70 m.

(Fig. A1.02)

Components

A Work platform
B Finishing platform
C Intermediate platform
D Concreting platform
F Heavy-Duty Spindle SLS
G Leading tie
H Guardrail scaffolding tubes
I Squared timber with full enclosure
J Handrail boards

1 Climbing Cylinder RCS MAX 75
3 Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V
5 Climbing Shoe RCS
6 Wall Shoe RCS
9 Climbing Rail RCS
10 Driving Rail RCS C MAX
23 Climbing Rail Hinge RCS
24 Crossbeam Head RCS 220 VARIO
54 VARIO GT 24 Girder-Wall Formwork
55 Steel Waler Universal SRU U120
83 MAXIMO Wall Formwork

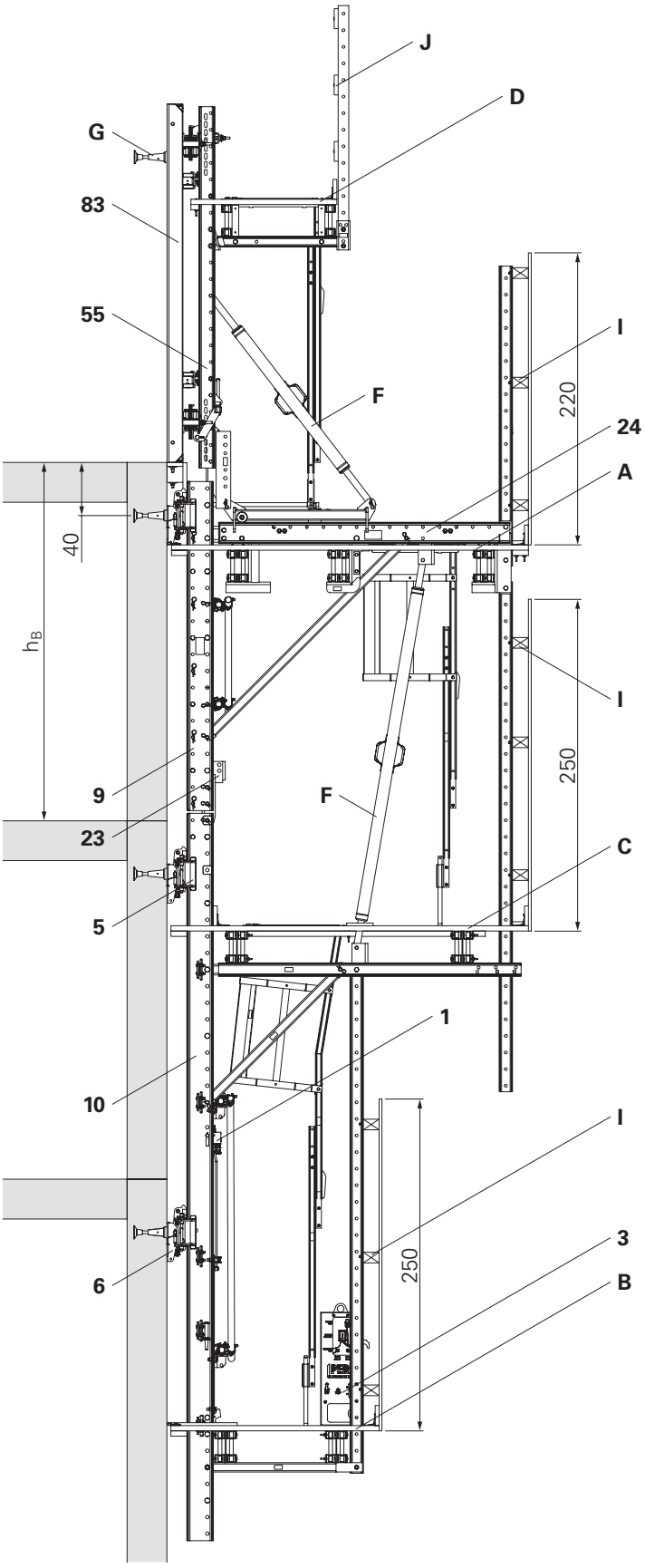


Fig. A1.02

Variant 3:
Used with VARIO GT 24 Girder-Wall Formwork and scaffolding tubes as lateral protection.

- Concreting platform with Corner Connector VARIOKIT SRU and Steel Waler Universal SRU U120.
- Intermediate platform with Scaffold Bracket GB 80.
- Storey height h_B = 4.50 m.

(Fig. A1.03)

Components

A Work platform
B Finishing platform
C Intermediate platform
D Concreting platform
E Intermediate platform on the formwork
F Heavy-Duty Spindle SLS
G Leading tie
H Guardrail scaffolding tubes

1 Climbing Cylinder RCS MAX 75
3 Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V
5 Climbing Shoe RCS
6 Wall Shoe RCS
9 Climbing Rail RCS
10 Driving Rail RCS C MAX
23 Climbing Rail Hinge RCS
24 Crossbeam Head RCS 220 VARIO
54 VARIO GT 24 Girder-Wall Formwork
55 Steel Waler Universal SRU U120

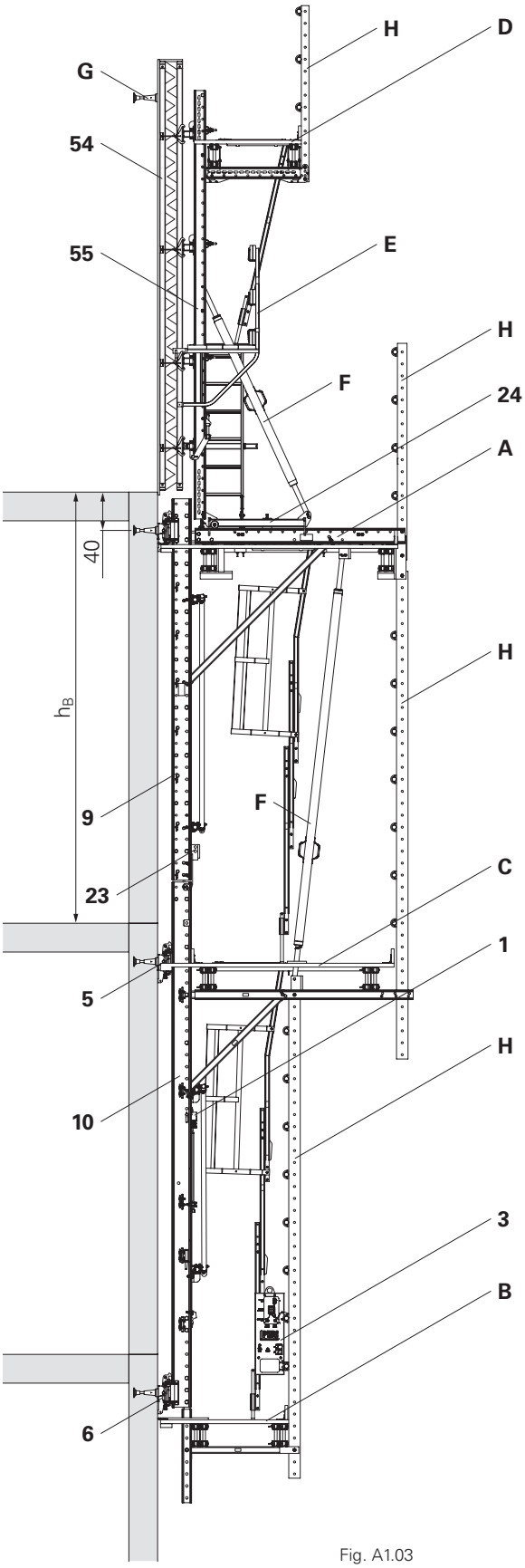


Fig. A1.03

General information

This section provides basic information about the driving rail, the climbing cylinder and the hydraulic unit. Further information can be found in the following chapters and in the separate RCS MAX Driving Rail and hydraulics assembly instructions.

Climbing Cylinder RCS MAX 75

Components

1 Climbing Cylinder RCS MAX 75
1.1 Quick-action climbing saw
1.2 Hydraulic quick coupler (bushing)
1.3 Hydraulic quick coupler (clip)
1.4 Type plate
1.5 RFID transponder
1.6a Lowering brake valve
1.6b Lowering brake valve
1.7 Climbing cylinder mounting hole

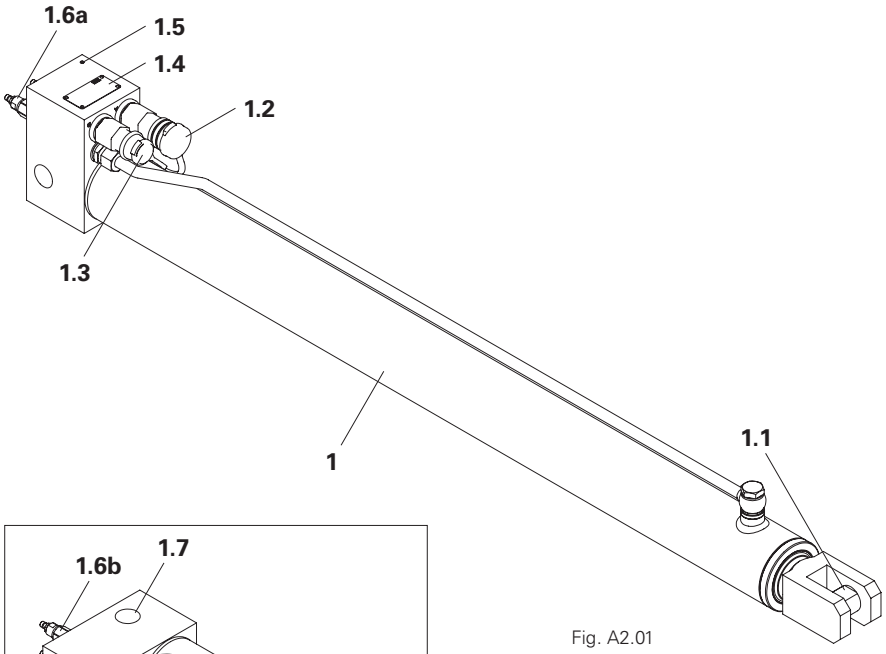


Fig. A2.01

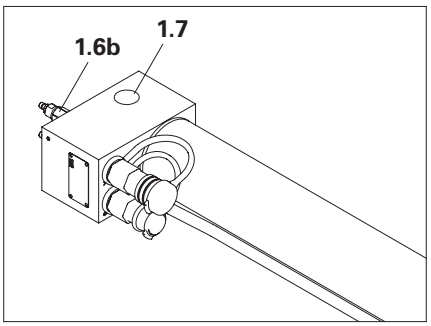


Fig. A2.01a

Driving Rail RCS C MAX

Components

10 Driving Rail RCS C MAX
10.1 Cylinder fixation
10.2 Diagonal connector
10.4 Bolt Ø 25 x 200 SCS
10.5 Cotter Pin 5/1
10.6 Climbing saw
10.7 Vertical load pawl

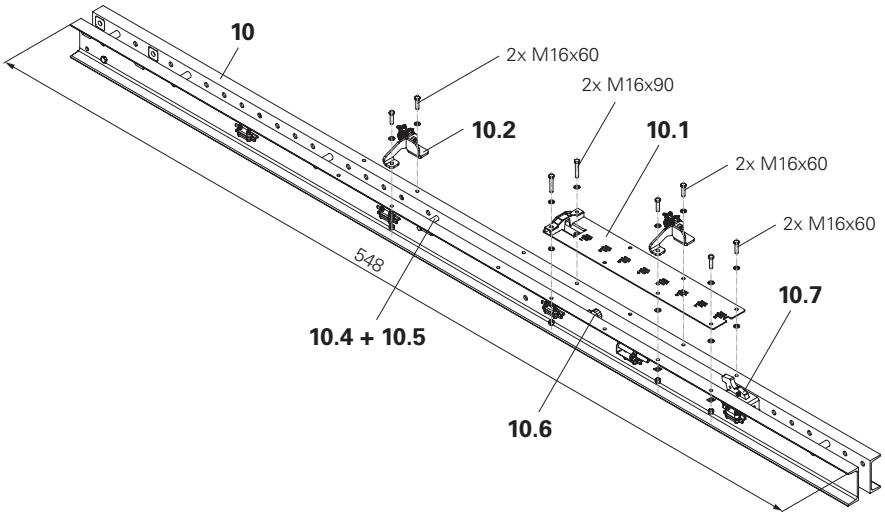


Fig. A2.02

Hydraulic unit

Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V for 2x Climbing Cylinder RCS MAX 75

Main components

3 Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V
3.1 Attachment points
3.2 Suspension hook
3.3 Securing bracket
3.4 Oil level and temperature display
3.23 Keypad
3.24 Type plate
3.25 Oil filling hole/ventilation filter
3.26 Oil return flow filter
3.28 Seal for Hydraulic Tank RCS MAX

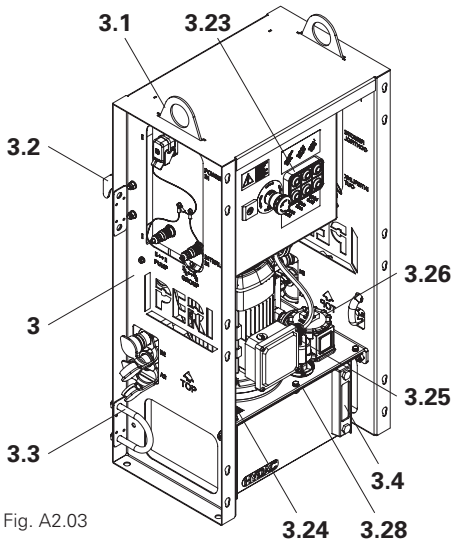


Fig. A2.03

Connections – left side

3.5 Power in [1]
3.6 Interlink In "Pump" [1]
3.7 Interlink In "Group" [2]
3.8 Hydraulic connection A2
3.9 Hydraulic connection B2

Connections – right side

3.10 Power Out [1]
3.11 Interlink Out "Pump" [1]
3.12 Interlink Out "Group" [2]
3.13 Hydraulic connection A1
3.14 Hydraulic connection B1
3.15 Remote control/display connection
3.27 RFID transponder

[1] For connecting individual units in a group.
[2] For connecting groups.

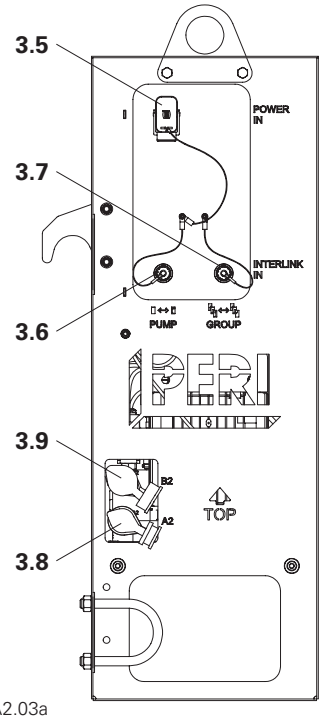


Fig. A2.03a

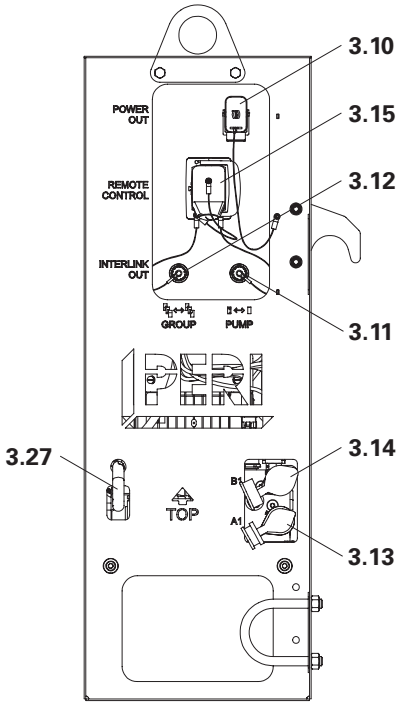


Fig. A2.03b

Control panel

3.16 Emergency Stop button
3.17 "Operation Mode" key
3.18 "Cylinder Extend" key
3.19 "Status / Reset" key
3.20 "Cylinder 2 On / Off" key
3.21 "Cylinder Retract" key
3.22 "Cylinder 1 On / Off" key

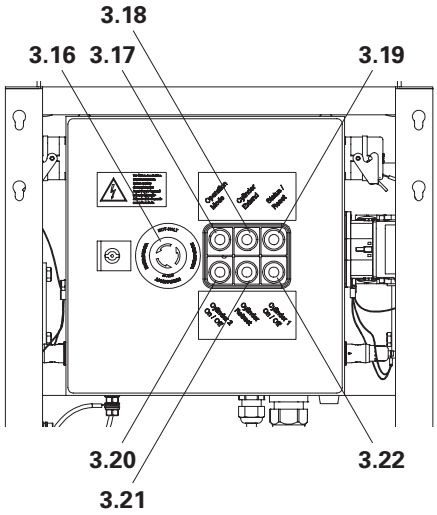


Fig. A2.04

Climbing Shoe RCS

Components

5 Climbing Shoe RCS
5.1 Climbing pawl
5.2 Guiding skid
5.3 Safety pin
5.4 Pawl lock
5.5 Hinged clamp
5.6 Spring lock
5.7 Locating pin for climbing device
93 Visual Aid Climbing Shoe RCS
93.1 Bearing tube
93.2 Linch pin

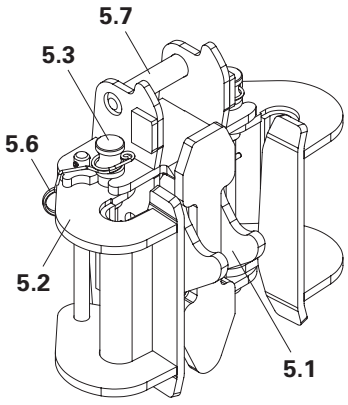


Fig. A2.05

Visual Aid Climbing Shoe RCS

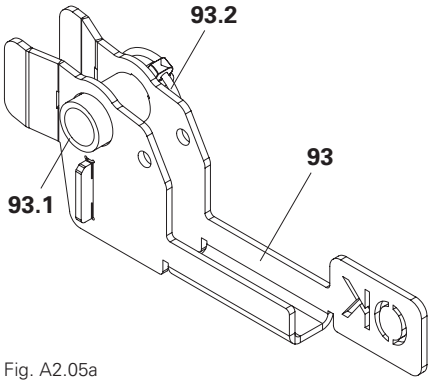


Fig. A2.05a

Climbing shoe closed

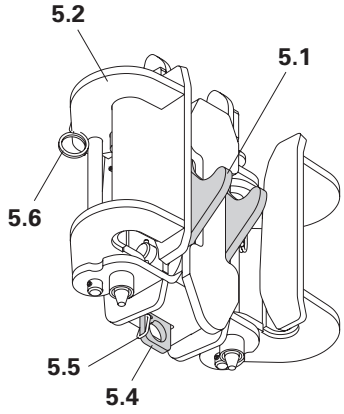


Fig. A2.05b

Climbing shoe open

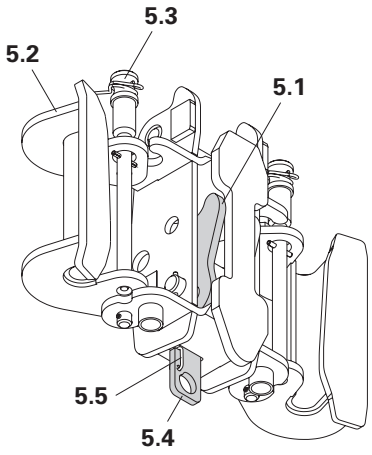


Fig. A2.05c

Accessories

Hydraulic twin hoses

2a Hydr.Twin Hose RCS 10 m (article no. 110069)
2b Hydr.Twin Hose RCS 20 m (article no. 110070)

Accessories

2.1 Hydraulic quick coupler (bushing) (article no. 110822/128993)
2.2 Hydraulic quick coupler (clip) (article no. 110823/128992)
2.3 Retaining ring (bushing)

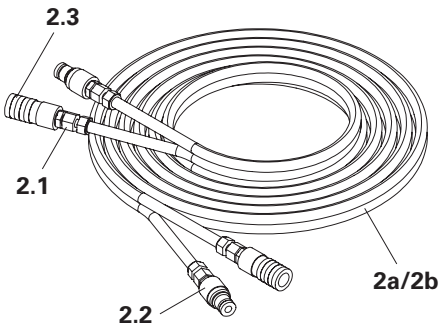


Fig. A2.06

Hydraulic single hoses

2c Hydr.Hose 853-2SN-DN08-FF 1 m (article no. 129035)
2d Hydr.Hose 853-2SN-DN08-FF 2 m (article no. 129036)
2e Hydr.Hose 853-2SN-DN08-FF 5 m (article no. 129419)
2f Hydr.Hose 853-2SN-DN08-FF 10 m (article no. 129420)
2g Hydr.Hose 853-2SN-DN08-FF 15 m (article no. 129421)
2h Hydr.Hose 853-2SN-DN08-FF 20 m (article no. 129422)

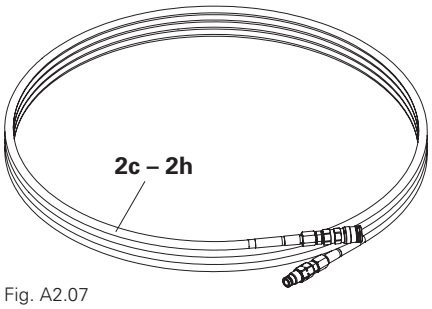


Fig. A2.07

Data connection

11a Data Conn. Cable RCS MAX 10 m
11b Data Conn. Cable RCS MAX 20 m
12 Conn. Data Cable RCS MAX
19 Data Connection RCS MAX wireless

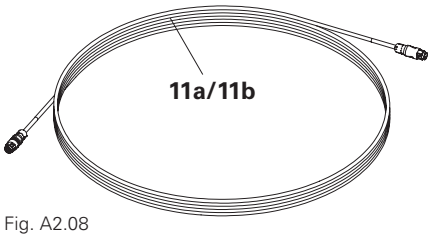


Fig. A2.08

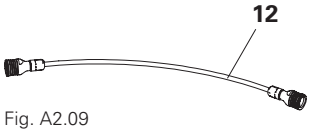


Fig. A2.09

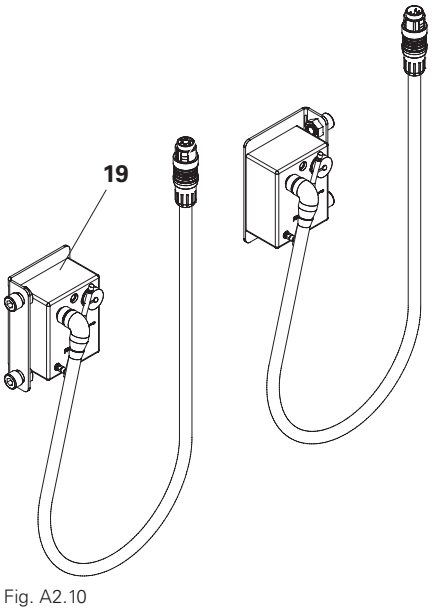


Fig. A2.10

Power cables

4 Power Cab. RCS MAX CEE-32A 2 m
4.1 Manual phase inverter
7a Power Conn. Cable RCS MAX 10 m
7b Power Conn. Cable RCS MAX 20 m
8 Conn. Power Cable RCS MAX
22 Power Cable RCS MAX 2 m*

* Installation of a country-specific plug by a qualified electrician required.
See assembly instructions for RCS MAX Driving Rail and hydraulics!

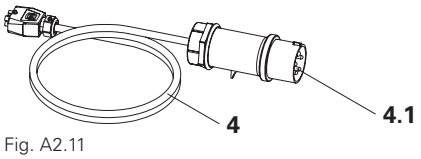


Fig. A2.11

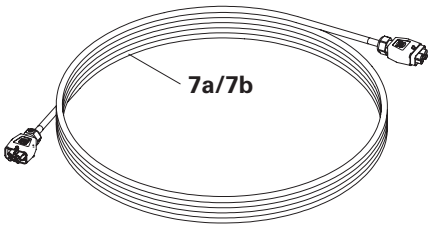


Fig. A2.12

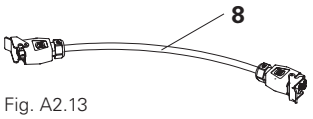


Fig. A2.13

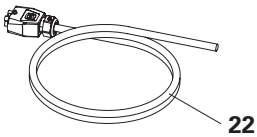


Fig. A2.14

Accessories

13 Remote Contr. RCS MAX 15 m
13.1 "Cylinder Extend" key
13.2 "Cylinder Retract" key
13.3 Emergency Stop button
14 Display RCS MAX
14.1 USB port
20 Remote Contr. RCS MAX wireless
20.1 Receiver paired with Remote Contr. RCS MAX wireless

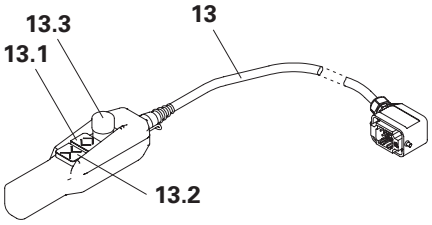


Fig. A2.15

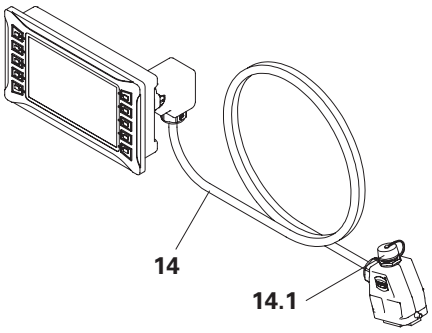


Fig. A2.16

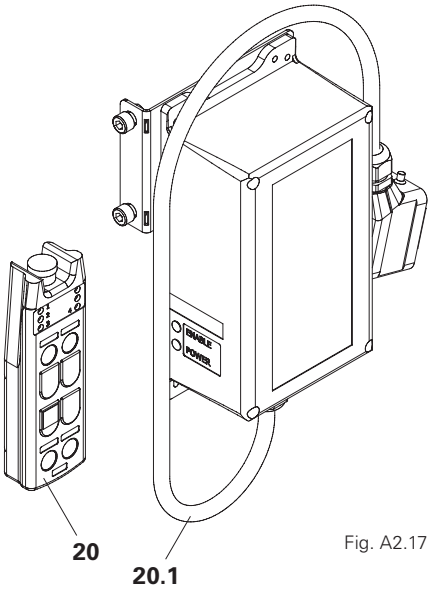


Fig. A2.17

Operating status: Working
All work carried out on the climbing formwork and its work platforms:
- Cleaning the formwork, reinforcing the wall, closing the formwork, concreting and deshuttering, inspection and maintenance.
  → Platforms must be freely accessible for the required work to be carried out.
- Moving the formwork backwards and forwards on the carriage.
- Max. wind speed 72 km/h (dynamic wind pressure q = 0.25 kN/m²).
- Loads are evenly distributed. Unilateral loads on cantilevered platform areas are to be avoided and only permitted with suitable lift locks on the reciprocal console bracket.

Operating status: Climbing
Moving the climbing unit by crane or by means of the hydraulic climbing device:
- Move the formwork backwards on the carriage.
- Remove non-planned loads from the platforms.
- All horizontal bracing against the structure has been dismantled.
- Climbing by crane: **Walking on the platforms while climbing is prohibited**.
- Self-climbing: Only the personnel required for climbing and supervision usually stand on the work or finishing platforms.
- For manual intervention, it is necessary to step onto the platforms in the self-climbing process.
- Max. wind speed 64 km/h (dynamic wind pressure q = 0.20 kN/m²).
- The climbing position must be verified statically, as this can be decisive.

Out of service and storm
Out of operation during longer breaks, e.g. over the weekend; storm during storm warnings or at wind speeds above 72 km/h:
- The formwork is moved to the concreting position on the carriage.
- Install any essential horizontal bracing against crosswinds on the structure.
- For full enclosure, if necessary, support the guardrail post horizontally against strongbacks.
- Out of service:
  – Material and equipment can remain on work platforms.
- Storm:
  – Remove materials and equipment from the work platforms.
  – Remove enclosure nets attached to the concreting platforms if necessary.
- Accessing the platforms during storm conditions is prohibited.
- The wind speed (wind pressure) to be assumed during a storm is calculated according to DIN EN 1991-1-4:2010-12 or EC 1 depending on the altitude, wind zone and terrain category.
- If given limits are exceeded, a visual inspection of all load-bearing components and a functional check of all safety components is necessary for further use.
- If a storm warning has higher wind speeds than originally stated, the site management must be informed.
  – Remove any enclosure tarpaulins or nets that may be attached.
- On the instruction of site management, the wall formwork may also be secured against the structure or the climbing formwork may be removed from the structure.
- Climbing back is not provided for in the standard application, additional instructions are necessary for this.
- In the event of sudden storms or lightning hazards, only put the safety measures in place if this does not pose a danger to personnel. Otherwise, leave the climbing formwork immediately.

A3 Operating states and loads

Overview of live loads

Verify the supporting structure for these loads and conditions by means of a static calculation based on PERI product information.

Platform	State				
	Reinforcing	Concreting	Climbing	Non-operational	Storm
Concreting platform level +1	75 kg/m²	150 kg/m²	–	–	–
Intermediate platform on formwork	–	–	–	–	–
Work platform* level 0	200/300 kg/m²	150 kg/m²	-	200 kg/m²	–
Intermediate platform level -1	–	–	75 kg/m²	–	–
Finishing platform level -2	–	–	75 kg/m²	–	–

Tab. A3.01

* The maximum live load of the work platform can be designed for 200 kg/m² or 300 kg/m², depending on requirements.

The areas projecting over the edge of the building on corner platforms may in principle only be loaded with 150 kg/m².
Storage of materials in these areas is not permitted.

Each platform is rated for at least 150 kg/m² live load.

In the case of deviating working conditions and distributions, the sum of the live loads must be adhered to.

Overview of wind loads

Platform	State			
	Working	Climbing	Non-operational	Storm*
Wind speed	72 km/h	64 km/h	102 – 136 km/h	136 – 188 km/h
Wind pressure	0.25 kN/m²	0.2 kN/m²	0.5 – 0.9 kN/m²	0.9 – 1.7 kN/m²
Position of the carriage	Any	Retracted	Concreting position	Concreting position

Tab. A3.02

* The wind speed (wind pressure) to be assumed during a storm is calculated according to DIN EN 1991-1-4:2010-12 or EC 1 depending on the altitude, wind zone and terrain category. Different aerodynamic coefficients, which are determined by a wind assessment, are applicable for the position in the ground plan (corner, transition or central control range).

The wind loads are to be assumed in accordance with the applicable national standard.

This structural design information takes into consideration loads in accordance with DIN EN 1991-1-4:2010-12, taking into consideration an available wind report.

A4 Sequence of operation

The RCS C MAX Rail Climbing System is always climbed using the hydraulic unit.

Hydraulic climbing is only possible from the 5th work cycle onwards.

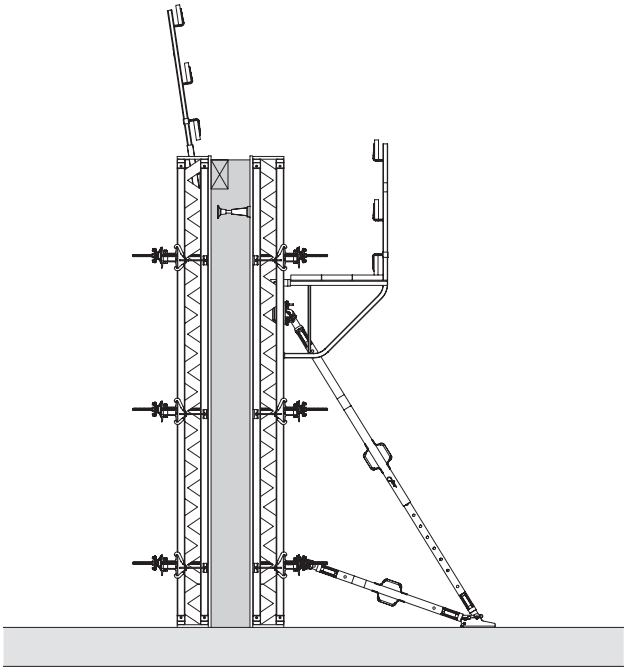


Fig. A4.01

1st work cycle

- Attach climbing ties to formwork and concrete the starter.
- Deshutter the formwork and fit the wall shoes and climbing shoes.

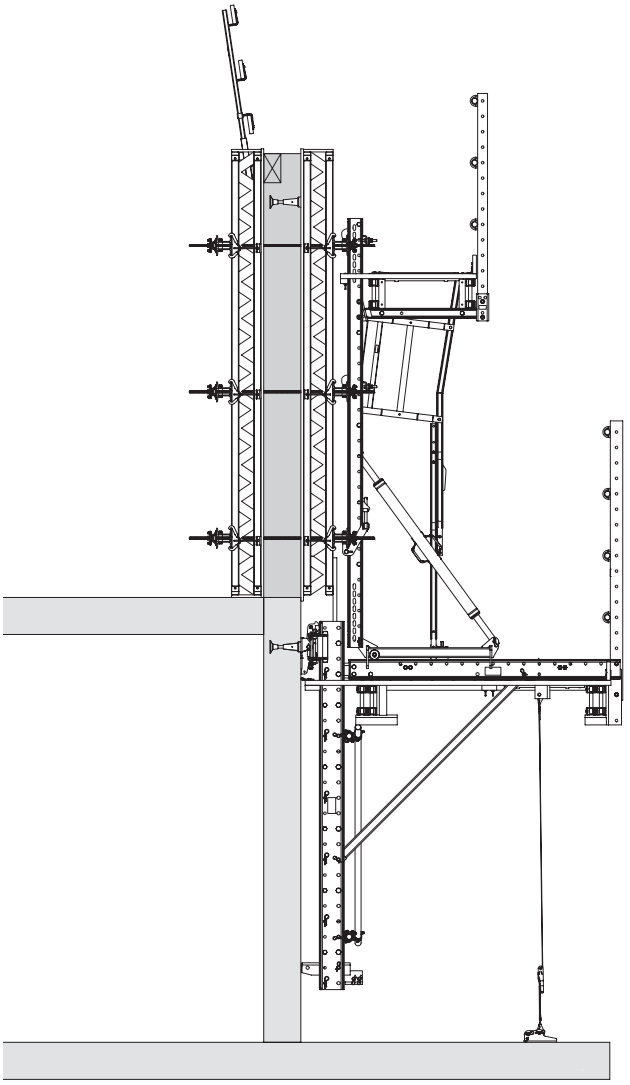


Fig. A4.02

2nd work cycle

- Attach the console unit and secure it against tipping.
- Fasten the formwork to the carriage with SLS strongbacks and spindles.
- Reinforce, install leading ties, close formwork and anchor.
- Concrete the 2nd section.

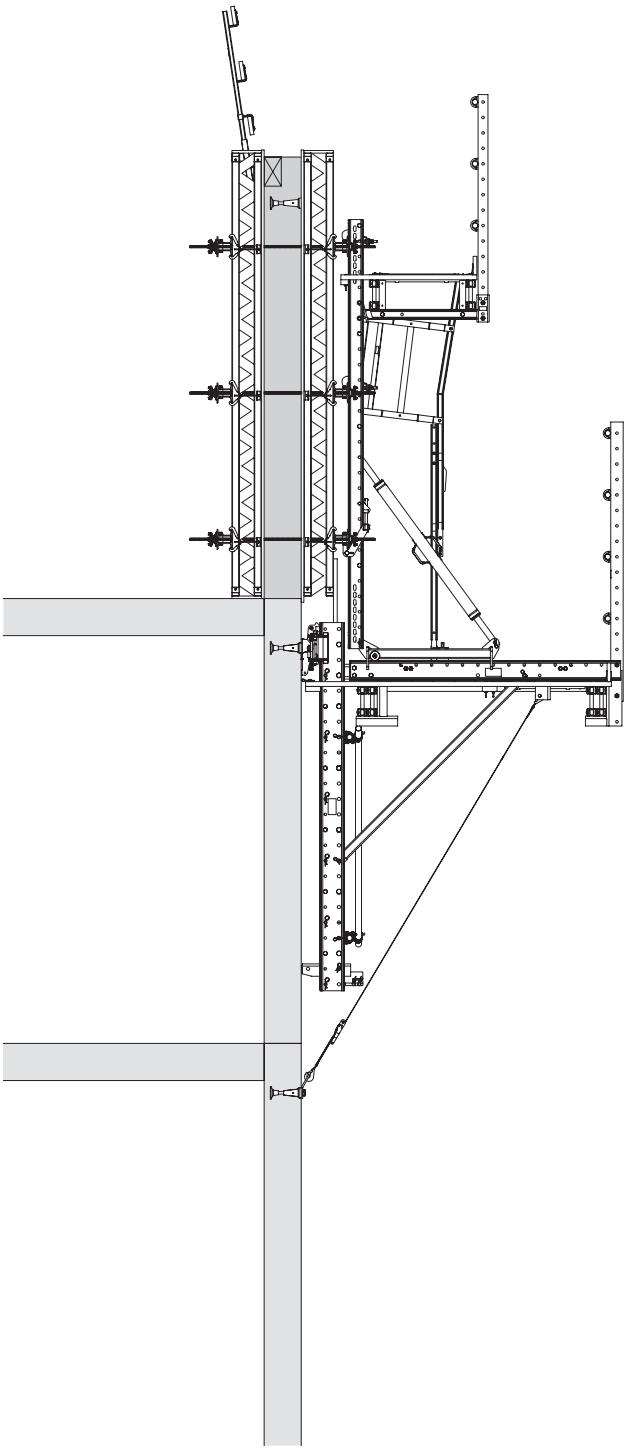


Fig. A4.03

3rd work cycle

- Release the leading tie fixings, remove the formwork tie and deshutter.
- Fix the suspension on the 2nd concreting section.
- Climb the climbing unit using the crane.
- Secure the climbing unit against tipping.
- Reinforce, install leading ties, close formwork and anchor.
- Concrete the 3rd section.

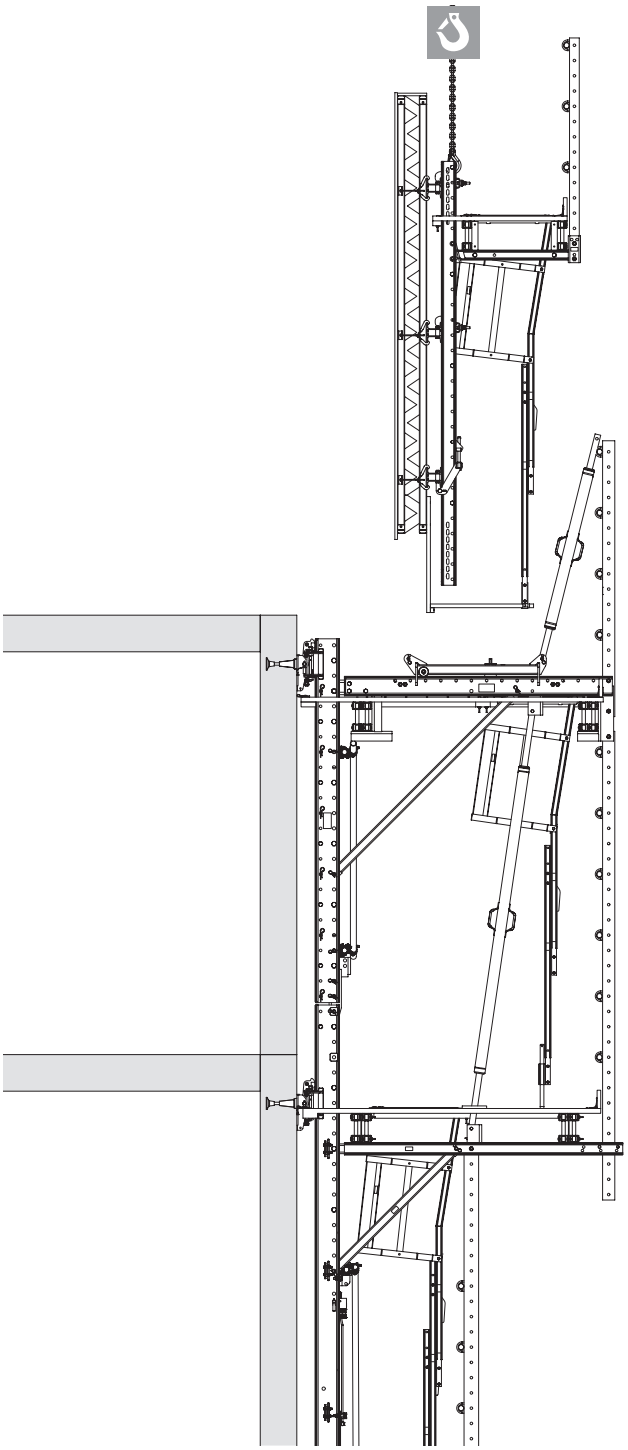


Fig. A4.04

4th work cycle

- Release the leading tie fixings, remove the formwork tie and deshutter.
- Fix the suspension on the 3rd concreting section.
- Remove the formwork and console unit from the wall.
- Extend console unit with finishing platform.
- Attach console unit on 3rd concreting section.
- Assemble guardrails and ladder accesses.
- Attach the formwork to the carriage.

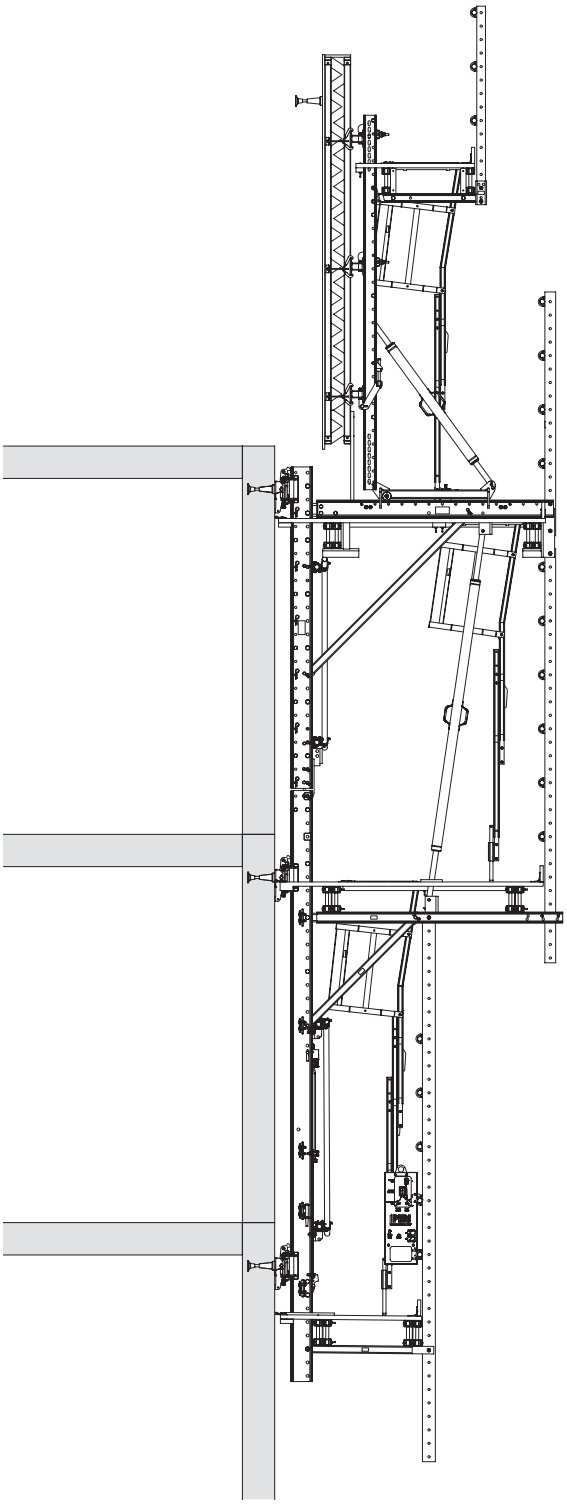


Fig. A4.05

5th work cycle

- Fit the hydraulic units.
- Connect climbing cylinders with hydraulic units.
- Put the climbing hydraulics into operation.
- Reload the climbing unit onto the vertical load pawl using the climbing hydraulics.

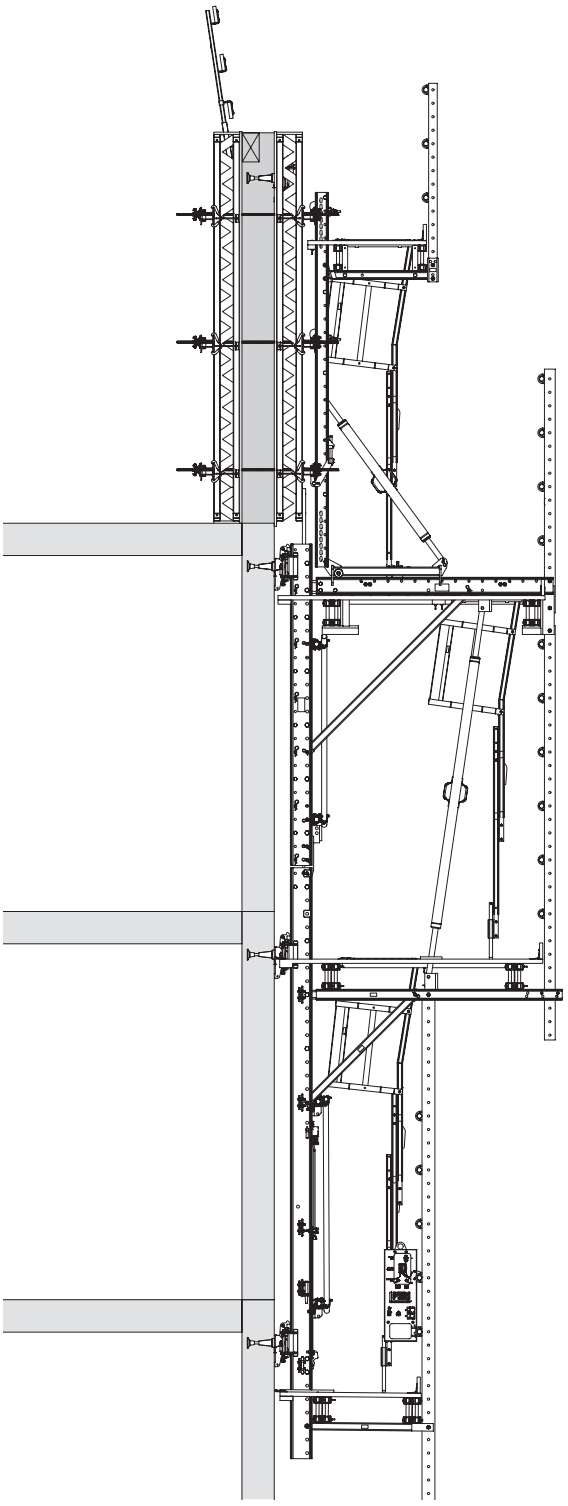


Fig. A4.06

6th work cycle

- Adjust the height position of the formwork.
- Reinforce and install leading tie.
- Close the formwork and anchor.
- Concrete the standard section.

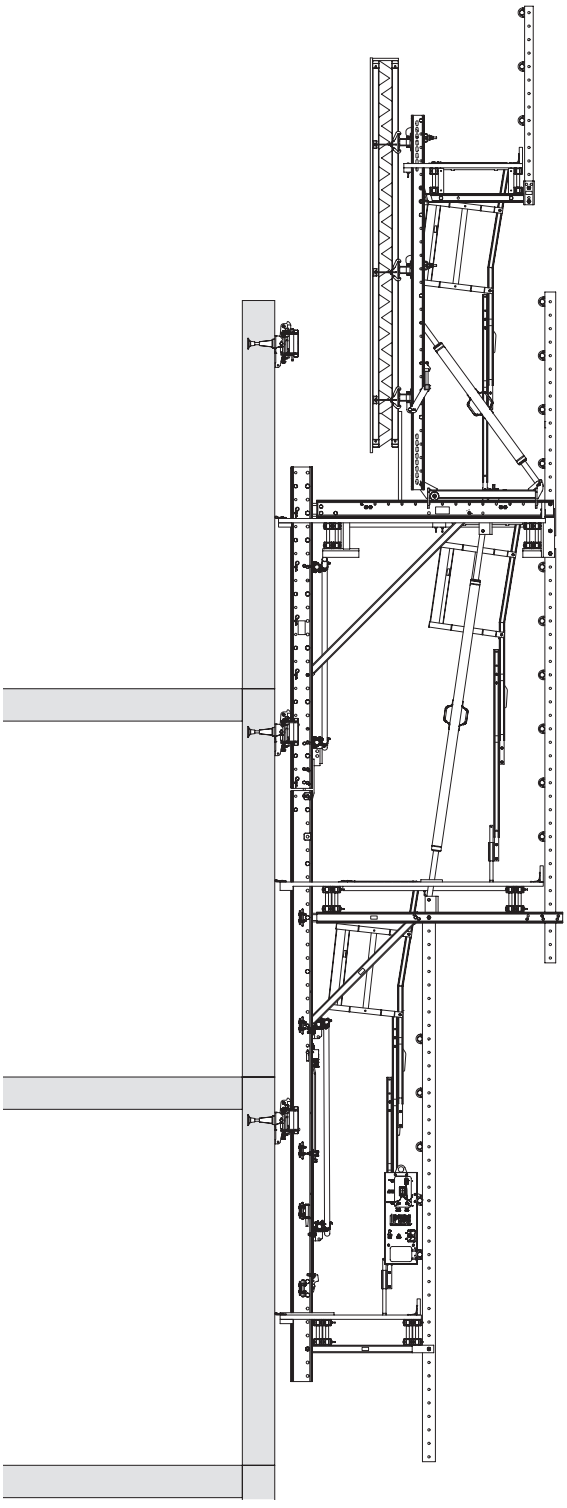


Fig. A4.07

7th work cycle

- Release and remove the leading tie.
- Remove the lowest suspension.
- Climb the climbing unit using the climbing hydraulics.
- Mount the next suspension at chest height.
- Continue to climb and thread into the climbing shoe.

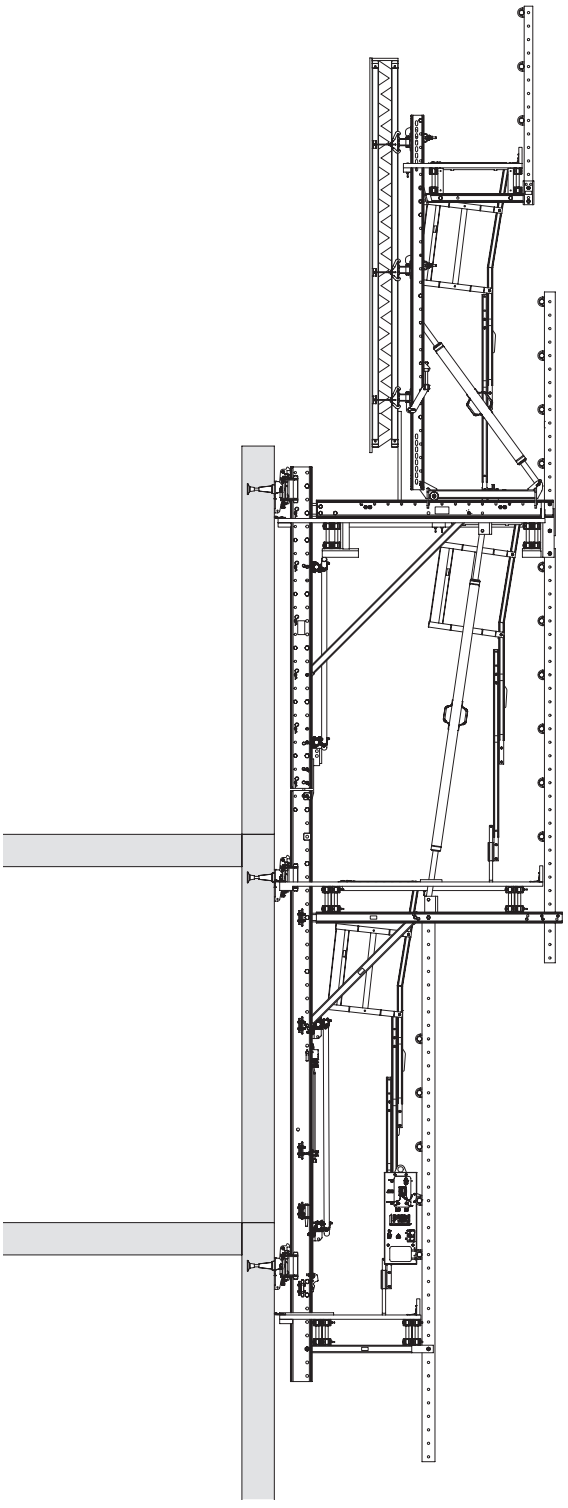


Fig. A4.08

8th work cycle

- Continue climbing until you reach the end position.
- Reload and activate the vertical load pawl.
- Start the process at step 6 again.

System dimensions

Depending on the planned tie spacing h_0 (usually equal to the concreting height h_B) arrange the Climbing Rails RCS (**9**) and the Driving Rail RCS C MAX (**10**) one above the other according to Table B1.01. The Climbing Rail Hinge RCS (**23**) is used as a connector.

Changing concreting heights must be planned and checked in advance.

Select the staking-out position of the climbing cylinder P1 or P2 depending on the tie spacing h_0 according to Table B1.02.

The specified size limits are determined by the:
- Requirements for proper assembly and alignment of the formwork.
- Functionality of the first section to be self-climbed.
- Attachment of the pre-assembled finishing platform.

For the documented configurations, proper engagement of the pawls in the climbing shoe with the spacers in the climbing rail and the latches of the climbing saw in the Driving Rail RCS C is guaranteed.

- If the section height h_0 changes over the course of construction, modification to the staking-out position of the cylinder is required, see Section "E8 Changing the cylinder position" on page 149.
- If no modification is made in the case of varying section heights or if the arrangement of the climbing shoes is different, the climbing procedure must be examined in detail for all climbing strokes.
- There should be at least 15 mm of backlash during each shuttering process when the hydraulic cylinder is fully extended and fully retracted.

Concreting height and system dimensions				
Vertical tie spacing to the concrete joint $c_{1.2}$	0.40 m			
Tie spacing during the standard cycle h_0 (=h_B) [m]	2.70 – 3.198	3.198 – 3.698	3.698 – 4.198	4.198 – 4.50
Length of the upper Climbing Rail RCS	248 cm	298 cm	348 cm	398 cm
Cylinder position P1 or P2	according to table B1.02			

Tab. B1.01

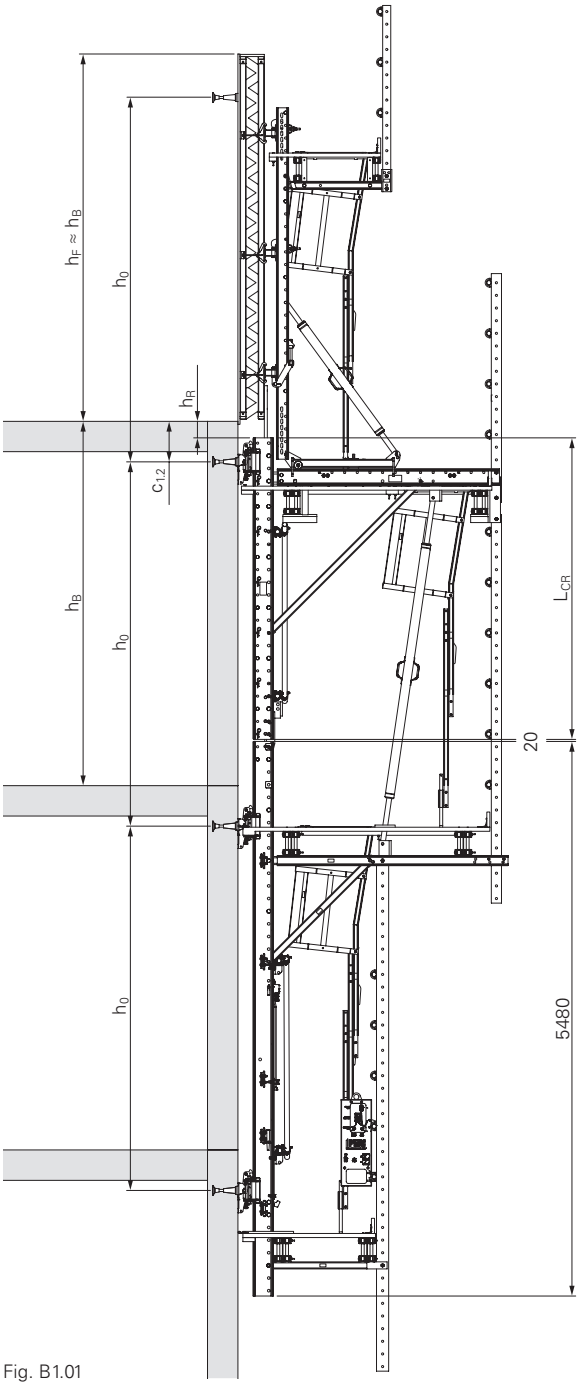


Fig. B1.01

Example

Section height h_0 = 3.60 m.

- Row:
  3573 mm < 3600 mm < 3635 mm.
- Select Climbing Rail RCS 298 as the upper climbing rail.
- Fix the cylinder in position P1 (lower hole).

Section height h_0		Cylinder position	Upper climbing rail
from	to		
2700 mm	2760 mm	P1	Climbing Rail RCS 248
2760 mm	2823 mm	P2	
2823 mm	2885 mm	P1	
2885 mm	2948 mm	P2	
2948 mm	3010 mm	P1	
3010 mm	3073 mm	P2	
3073 mm	3135 mm	P1	
3135 mm	3198 mm	P2	
3198 mm	3260 mm	P1	Climbing Rail RCS 298
3260 mm	3323 mm	P2	
3323 mm	3385 mm	P1	
3385 mm	3448 mm	P2	
3448 mm	3510 mm	P1	
3510 mm	3573 mm	P2	
3573 mm	3635 mm	P1	
3635 mm	3698 mm	P2	
3698 mm	3760 mm	P1	Climbing Rail RCS 348
3760 mm	3823 mm	P2	
3823 mm	3885 mm	P1	
3885 mm	3948 mm	P2	
3948 mm	4010 mm	P1	
4010 mm	4073 mm	P2	
4073 mm	4135 mm	P1	
4135 mm	4198 mm	P2	
4198 mm	4260 mm	P1	Climbing Rail RCS 398
4260 mm	4323 mm	P2	
4323 mm	4385 mm	P1	
4385 mm	4448 mm	P2	
4448 mm	4500 mm	P1	

Tab. B1.02

Initial use with upper bracket unit

The first time it is used on the building, different minimum heights will apply for the first concreting section subject to the climbing rail used.

Depending on how the climbing rail is inserted into the climbing shoe, different minimum dimensions apply.

- Threading into the climbing shoe from below, taking into account a lifting dimension of at least 40 cm.
- Or insertion into the open climbing shoe with subsequent closing of the guiding skids.

- When inserting the climbing rail into the open climbing shoe, ensure safe access to the climbing shoe for the closing process.
- It may be necessary to use PPE.
- Before the formwork is placed, vertical bracing must be installed to prevent tipping.

First concreting section – Attaching the bracket unit				
Vertical tie spacing to the concrete joint $c_{1.2}$	0.40 cm			
Length of the upper Climbing Rail RCS	248 cm	298 cm	348 cm	398 cm
Minimum starter height				
Min. starter height h_{Start} when threading into the Climbing Shoe RCS from below	3.10 m	3.60 m	4.10 m	4.60 m
Min. starter height h_{Start} when inserting into the open Climbing Shoe RCS	2.70 m	3.20 m	3.70 m	4.20 m

Tab. B1.03

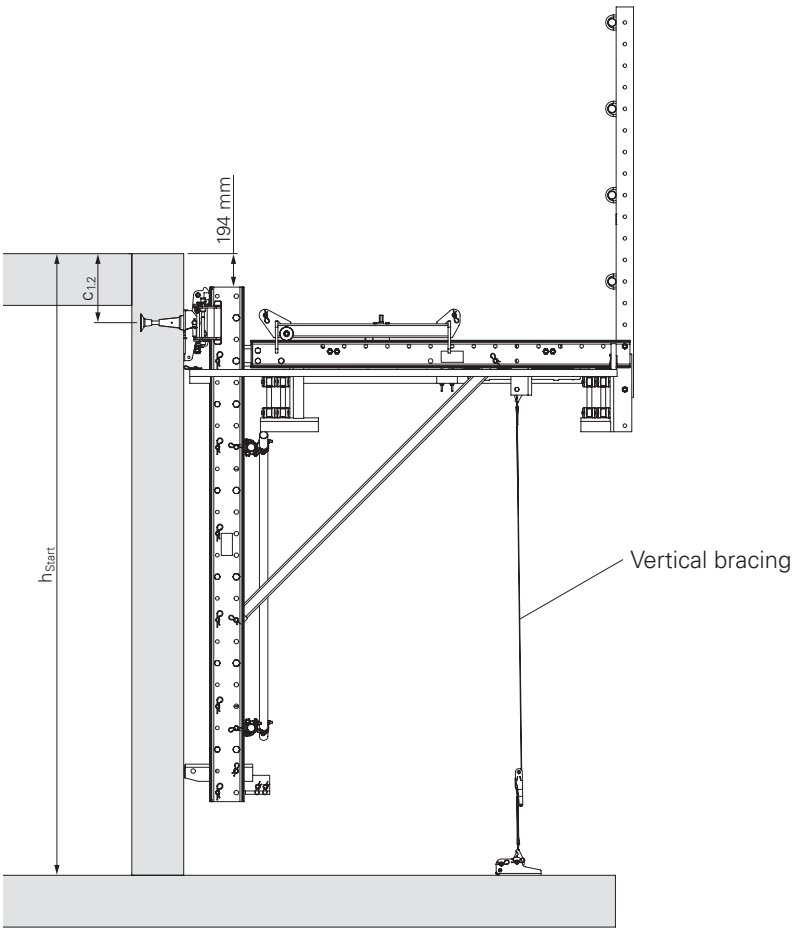


Fig. B1.02

Attaching the bracket unit with driving rail and finishing platform

When attaching the bracket unit with driving rail and finishing platform on the building, different minimum heights apply for the first concreting section, depending on the climbing rail used.

Depending on how the climbing rail is inserted into the climbing shoe, different minimum dimensions apply.

- Threading into the climbing shoe from below, taking into account a lifting dimension of at least 40 cm.
- Or insertion into the open climbing shoe with subsequent closing of the guiding skids.

- When inserting the climbing rail into the open climbing shoe, ensure safe access to the climbing shoe for the closing process. It may be necessary to use PPE.
- When using Guardrail Posts 509 RCS for concreting section heights of $h_B \geq 3.60$ m, these are usually decisive for determining the minimum height h_{Mount} by the excess length. In such cases, it must be checked on a project-specific basis whether the system can be attached.

Second or third concreting section Attaching console unit with finishing platform					
Length of the upper Climbing Rail RCS	248 cm	298 cm	348 cm	398 cm	398 cm*
Minimum building height					
Min. starter height h_{Mount} when threading into the Climbing Shoe RCS from below	8.60 m	9.10 m	9.60 m	10.10 m	11.10 m
Min. starter height h_{Mount} when inserting into the open Climbing Shoe RCS	8.20 m	8.70 m	9.20 m	9.70 m	10.70 m

Tab. B1.04

* applies when using Climbing Rail Extensions RCS 100 for concreting section heights of $h_B \geq 4.30$ m. For $h_B < 4.30$ m, a smaller minimum height h_{Mount} can be determined by project-specific planning.

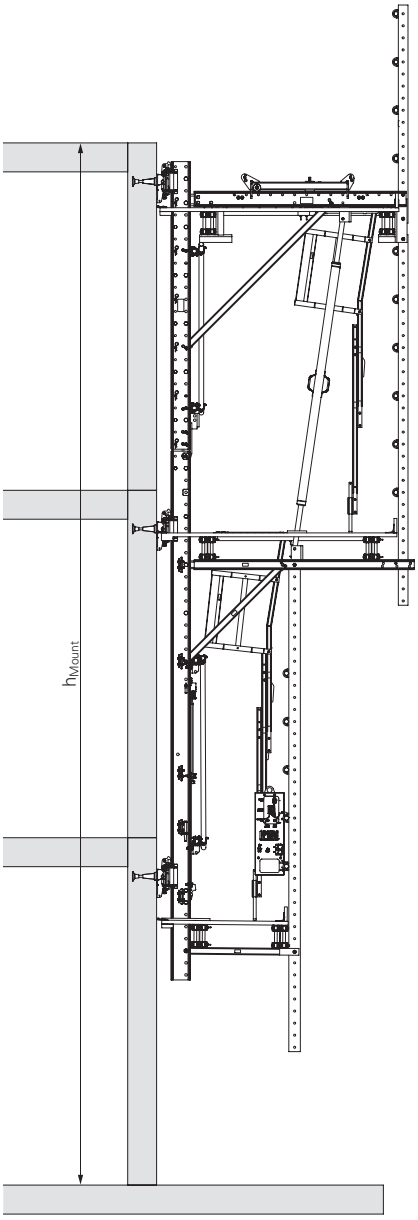


Fig. B1.03

Support reactions

H_1: Horizontal force on the upper climbing shoe
H_2: Horizontal force on the middle climbing shoe
H_3: Horizontal force on the lower climbing shoe
V: Vertical force on the climbing shoe

- The horizontal loads can be both positive (tension) and negative (compression) depending on the condition, load combination and direction of the wind load.
- The relationship between reaction forces and tie forces is shown in Fig. B1.07.

Version 1
To reach the maximum load-bearing capacity of the anchoring, the vertical force is introduced at the middle climbing shoe.
The anchoring (**A**) must be verified for pure tension force H_1. The anchoring (**B**) must be verified for the shear force V and, if applicable, simultaneously occurring tension force H_2.
The height position of the Climbing Rail RCS relative to the concreting joint (dimension h_R = 70 – 194 mm) varies depending on the concreting section height h_0.
For self-climbing operation, it must be taken into account that the vertical load is transferred into Driving Rail RCS MAX at anchoring point (**B**) via the climbing saw by means of vertical load pawl P.
Vertical force V can be introduced into anchorage (**B**) or anchorage (**C**) depending on the concreting height h_0 and climbing descent.

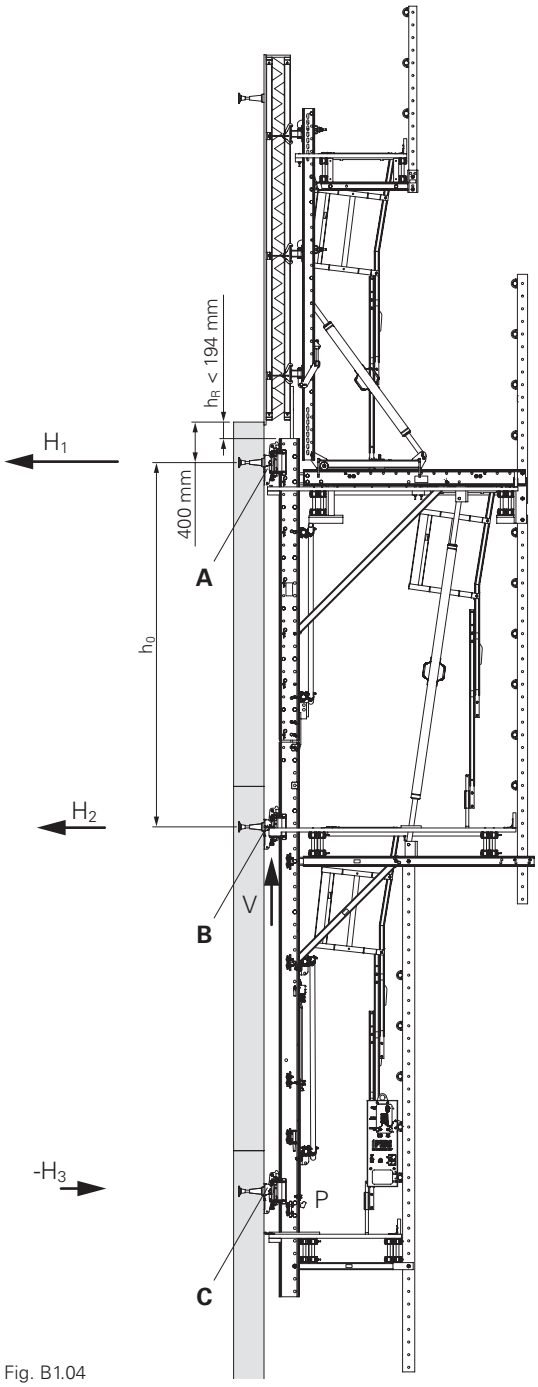


Fig. B1.04

Version 2
Verify that the anchoring point (**A**) is suitable for the simultaneous tension force H_1 and shear force V. The load-bearing capacity of the anchoring can be decisive in determining the size and weight of the climbing formwork when there is interaction.
In case of different storey heights, the formwork in this version does not have to be adjusted in height to suit each change, as the height position of the Climbing Rail RCS is determined relative to the concrete joint (dimension h_R = 194 mm).

Version 1 and 2:
- Ensure that the edge distances conform to the approval.
  – Z-21.6-1766 PERI Screw-On Cone.
  – Z-21.6-1767 PERI Climbing Cone.
- Refer to the project-specific calculation for the reaction forces acting on the anchoring and the building.
- The maximum reaction forces must be shown on the arrangement drawings.
- The static anchoring verification and the transmission of forces for all decisive load cases must usually be provided by the project's structural engineer.

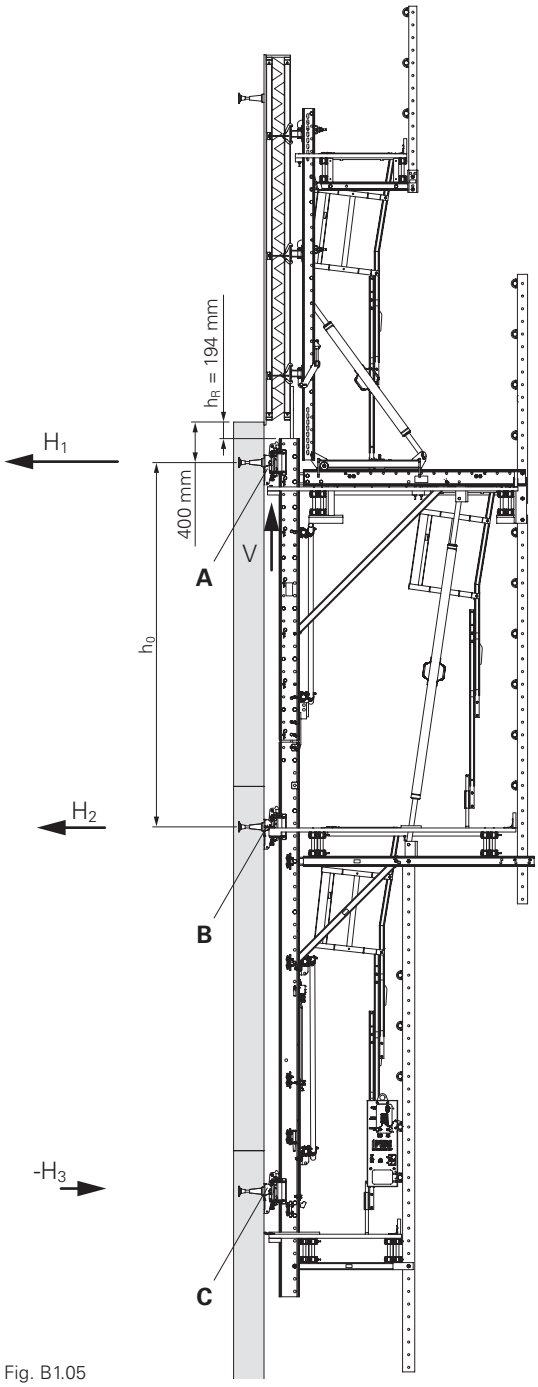


Fig. B1.05

- **Working conditions**
  - Wind load from wind suction
  - with q = 0.50 kN/m²
  - v = 102 km/h
  - 100 % live load on one level
  - 50 % live load on a 2nd level
  - Formwork in any position

- **Status: Non-operational**
  - Wind load from wind pressure and suction
  - with q = 0.50 – 0.9 kN/m²
  - v = 102 – 136 km/h
  - Reduced live loads
  - Formwork in concreting position

- **Storm conditions**
  - Wind load from wind pressure and suction
  - with q(z) = 0.9 – 1.7 kN/m²
  - v = 136 – 188 km/h
  - No live loads
  - Formwork in concreting position

- **Status: Climbing**
  - Wind load from wind suction
  - with q = 0.20 kN/m²
  - v = 64 km/h
  - Live load on a 2nd level
  - Formwork is retracted

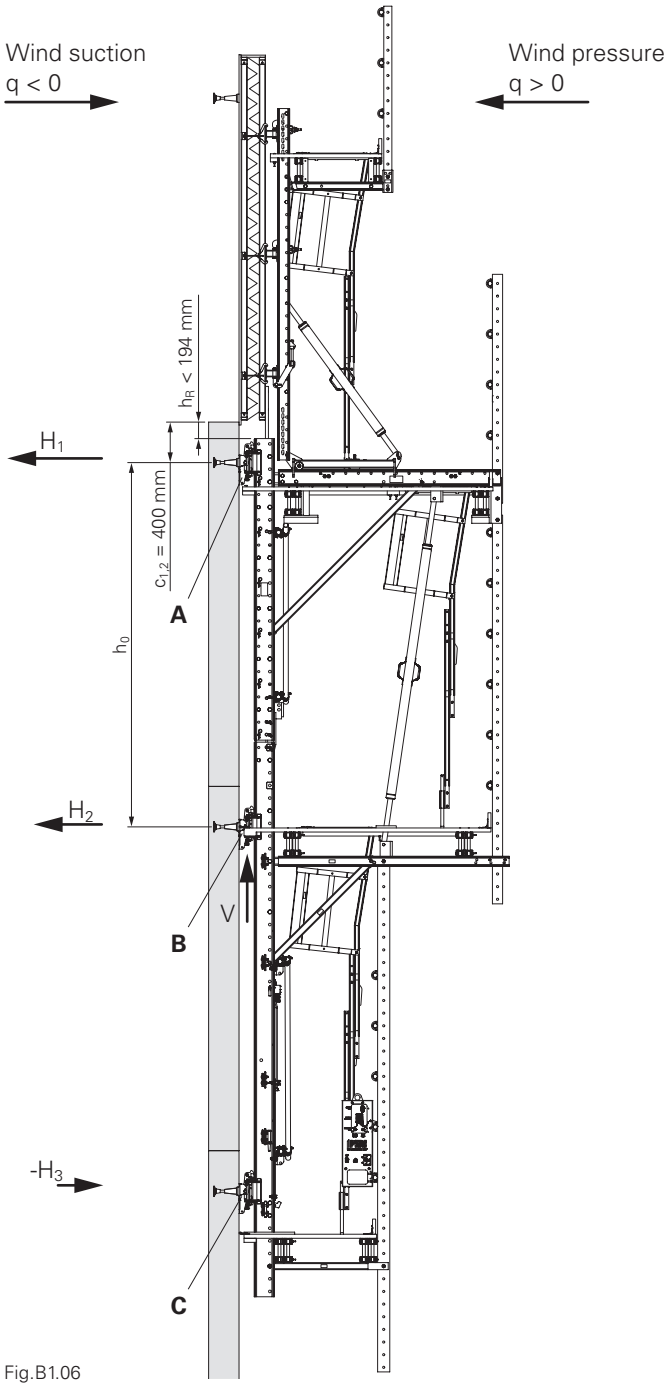


Fig.B1.06

- The wind speed (wind pressure) to be assumed during a storm is calculated according to DIN EN 1991-1-4:2010-12 or EC 1 depending on the altitude, wind zone and terrain category.
- Different aerodynamic coefficients, which are determined by a wind assessment, are applicable for the position in the ground plan (corner, transition or central control range).
- The wind loads are to be assumed in accordance with the applicable standard.
- The associated structural design information takes into consideration loads in accordance with DIN EN 1991-1-4:2010-12, taking into consideration an available wind report.
- The wind load in the non-operational state is to be set between q = 0.5 – 0.9 kN/m² in coordination with the construction site.

Structural design

Structural design is carried out on the basis of separate structural design information.

Please note
- that the permissible influence width usually depends on the wind load in storm conditions, but in the case of low dynamic storm pressure or low wall formwork heights, the other conditions may also be decisive.
- that different permissible influence widths are applicable for corner areas, transition areas and central control ranges.
- that the structural design of the climbing ties can be decisive in determining the size of the platform.
- that load introduction and transmission in the structure must be statically verified by the structural engineer for the construction status.

Variants and special-purpose applications

Please note
- that the variants with net enclosure or full enclosure documented in the structural design information generally require horizontal bracing against the structure or other additional measures, especially at corner platforms in the non-operational status and during storms.
- that dimensions, arrangements, loads or load combinations that deviate from the documented standard configuration require a separate proof of static load-bearing capacity.

For this purpose, PERI can provide essential information on the load-bearing capacity of individual components to the customer at the request of the planner.

Anchoring verification

Please note
- that the reaction forces H and V shown in the structural design information refer to the connecting bolt between the Wall Shoe RCS and Climbing Shoe RCS.
- that the horizontal loads can be both positive (tension) and negative (compression) depending on the condition, load combination and direction of the wind load.
- that the tie tension force differs from the horizontal force H on the climbing shoe due to the bracket effect of the wall shoe P_C: $N_A = H + P_C$.
- To verify the suitability of anchoring with Climbing Cone-2 DW 20 M30 ga or Screw-On Cone DW26 M30, the respective General Technical Approval must be observed in Germany.
  – Z-21.6-1766 PERI Screw-On Cone,
  – Z-21.6-1767 PERI Climbing Cone.
- Outside of Germany, the somewhat more progressive associated expert opinion can also be used.
- Both verification methods are covered in separate design information.

Isolated diagram of the reaction forces and tie forces at the climbing shoe and wall shoe

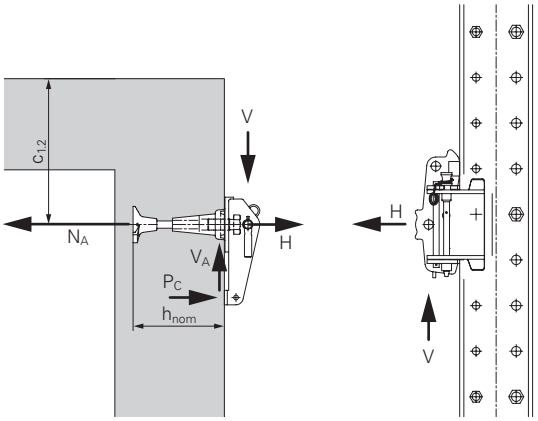


Fig. B1.07

General information

- Form the platform decking in the correct manner and in accordance with the applicable safety regulations.
- The material qualities must comply with the standards.
- Avoid – or at least cover – tripping hazards, unnecessary recesses and gaps in the deck.
- The distance between the lowest decking and the structure must not exceed 5 cm. Gaps in the deck must not exceed 2 cm.
- Fix immovable covering over any gaps between the decks of adjacent platforms when work is being carried out, e.g. with Cover Tape LPS or safety nets with a mesh size of max. 2 cm.
- Any openings in the decking that are required for normal working procedures must be covered with suitable immovable materials.
- If necessary, mount intermediate platforms on the formwork so that tie points can be operated safely.
- None of the decks on any of the platforms are designed to act as safety scaffolds. Otherwise, the planking must be dimensioned according to DIN 4420-1:2004-03.

Work platform planking

Depending on the design of the working scaffold:
Load class 4 with max. load 300 kg/m², Load class 3 with max. load 200 kg/m², corresponds to DIN EN 12811-1:2004-03.

Solid Wood Strength Class C24 – DIN EN 338:2016-07; Coniferous Wood Grade S10.
Minimum dimensions of the planking:
w × d = 24 × 4 cm or 20 x 4.5 cm.

PERI recommends bolting the individual planks to a transverse squared timber at the cantilever arm and in the centre of the bay if the plank thickness is less than 45 mm.
Minimum dimensions
w × d = 12 × 4 cm.

Alternatively:

1. Multi-layer plywood sheet made of laminated veneer lumber according to DIN EN 14374:2005-02 with a minimum thickness of 39 mm and a durability class of 4 or better.
2. Strength class C16 for solid wood DIN EN 338:2016-07:
   Minimum dimensions of planks
   w × d = 24 × 5 cm.

As safety scaffold for fall heights up to 3.00 m, double covering with planks w × d = 24 × 5 cm is required – see DIN 4420-1:2004-03.

Planking of the concreting, intermediate and finishing platforms

Working scaffold of load class 2 max. load 150 kg/m² according to DIN EN 12811-1:2004-03.
Solid Wood Strength Class C24 – DIN EN 338:2016-07; (Coniferous Wood Grade S10).
Minimum dimensions of the planking:
w × d = 20 × 4 cm.

PERI recommends bolting the individual planks to a transverse squared timber at the cantilever arm and intermediate platform in the centre of the bay if the plank thickness is less than 45 mm.
Minimum dimensions
w × d = 12 × 4 cm.

Alternatively:

1. Multi-layer plywood sheet made of laminated veneer lumber according to DIN EN 14374:2005-02 with a minimum thickness of 39 mm and a durability class of 4 or better.
2. Strength class C16 for solid wood DIN EN 338:2016-07: Minimum dimensions of planks
   w × d = 24 × 5 cm.



When using planking with a lower strength class or plywood boards, static verification is required.

General information

Decks on corner and internal platforms should be formed in such a way that they do not hinder the climbing process. Fit lateral guardrails at the front side. All the dimensions provided are merely examples. These must be checked and determined on a project-by-project basis.

Secure all cantilevered platforms on the opposite side to prevent them from lifting off.

Work platforms

When the formwork is retracted, it must be possible to transition from one platform to the next without any issues. The minimum passage width must not be less than 50 cm.

Mitred work platform, truncated

Run an additional middle platform beam up to the edge of the platform.
Connect cantilevered planking in the mitre area with planks screwed vertically underneath or install multi-layered plywood sheet as platform decking for corner areas.
Cover the mitre gap with Cover Tape LPS screwed down on one side.
(Fig. B3.01)

Overlapping work platform

Connect cantilevered planking in the overhang area with planks screwed together underneath.
Cover the platform gap with Cover Tape LPS screwed down on one side. Mount an additional platform beam (**A**) on the flush platform so that a lateral guardrail post can be fitted.
Stabilise the front-end lateral protection on the cantilevered platform with upper diagonal bracing (**B**).
(Fig. B3.02)

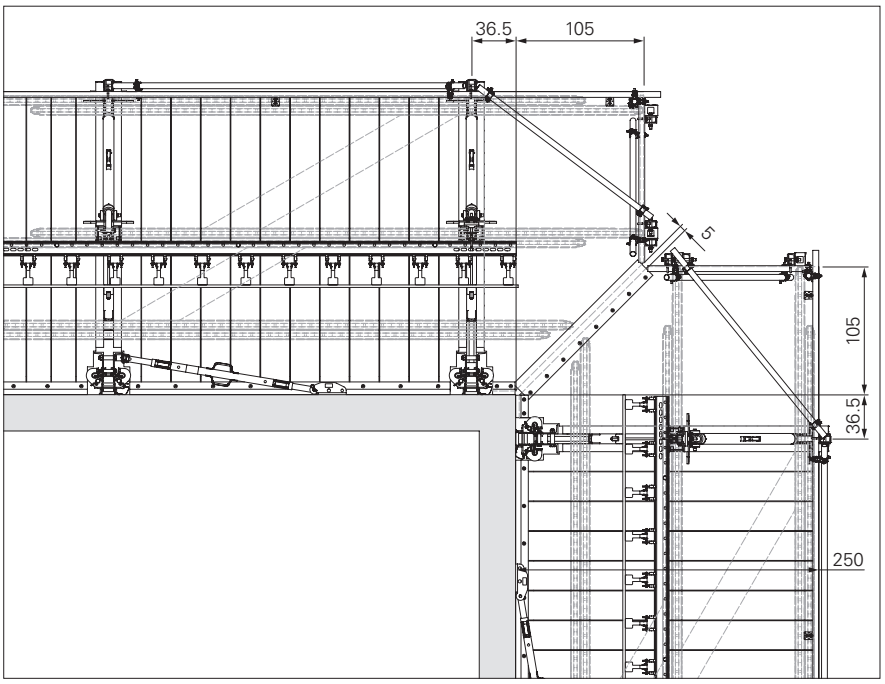


Fig. B3.01

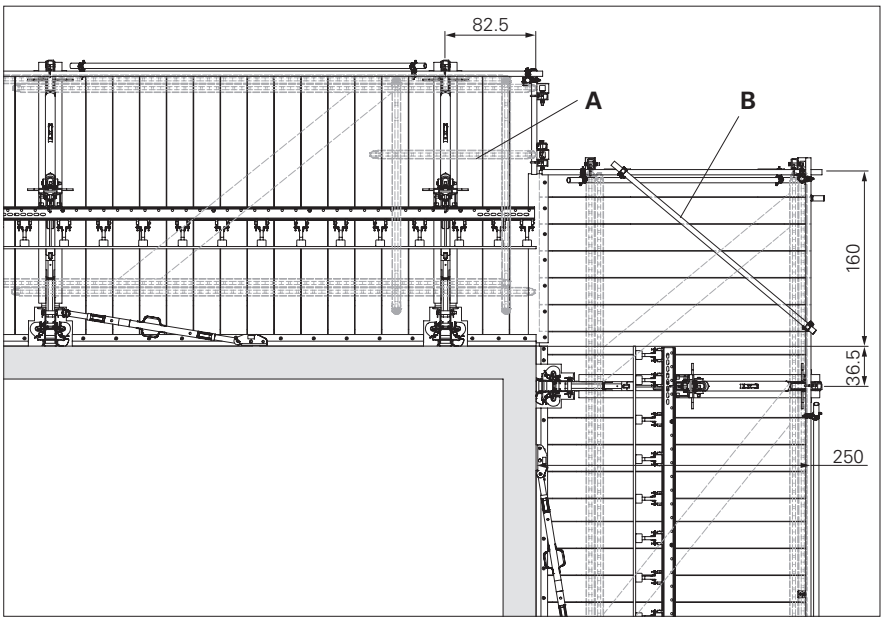


Fig. B3.02

In order to comply with the permissible cantilever arms of the platform beam, it may be necessary to arrange a third pair of girders.
Attention – it may be necessary to produce precise static verification for the anchoring.

Intermediate platform

It must be possible to transition from one platform to the next without any issues. The minimum passage width must not be less than 50 cm.
Fix immovable covering over any remaining gaps.

Mitred intermediate platform
Run an additional middle platform beam up to the edge of the platform.
Connect cantilevered planking in the mitre area with planks screwed together vertically underneath or install multi-layer plywood sheet.
Cover the mitre gap with Cover Tape LPS screwed down on one side.
(Fig. B3.03)

Overlapping intermediate platform
Connect cantilevered planking in the overhang area with planks screwed together underneath.
Cover the remaining platform gap with Cover Tape LPS screwed down on one side. (Fig. B3.04)

Recommended distance:
- to the structure 50 mm.
- to adjacent platform 30 mm.

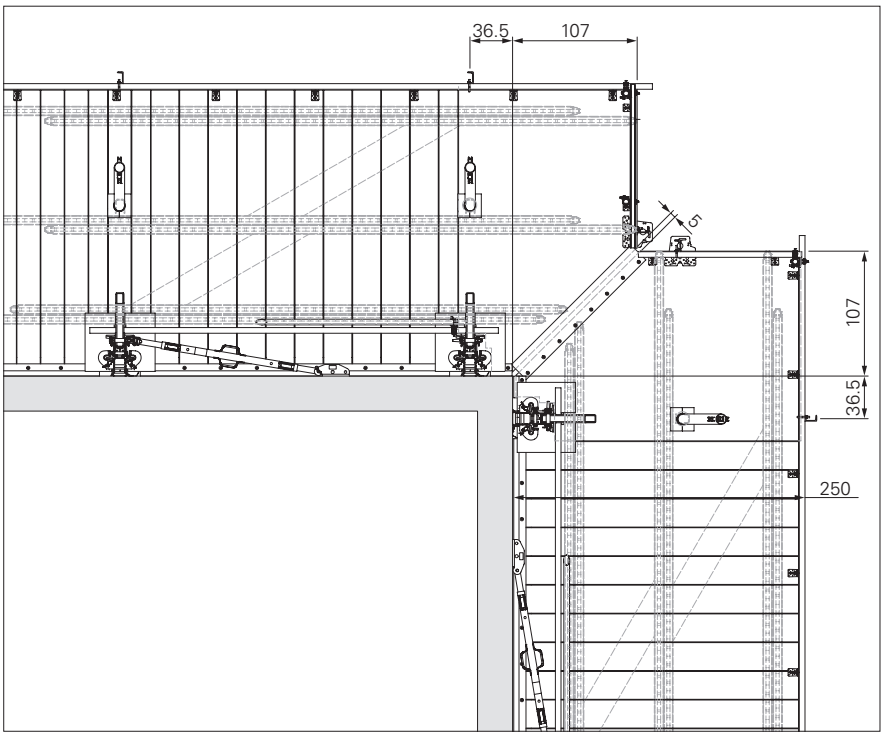


Fig. B3.03

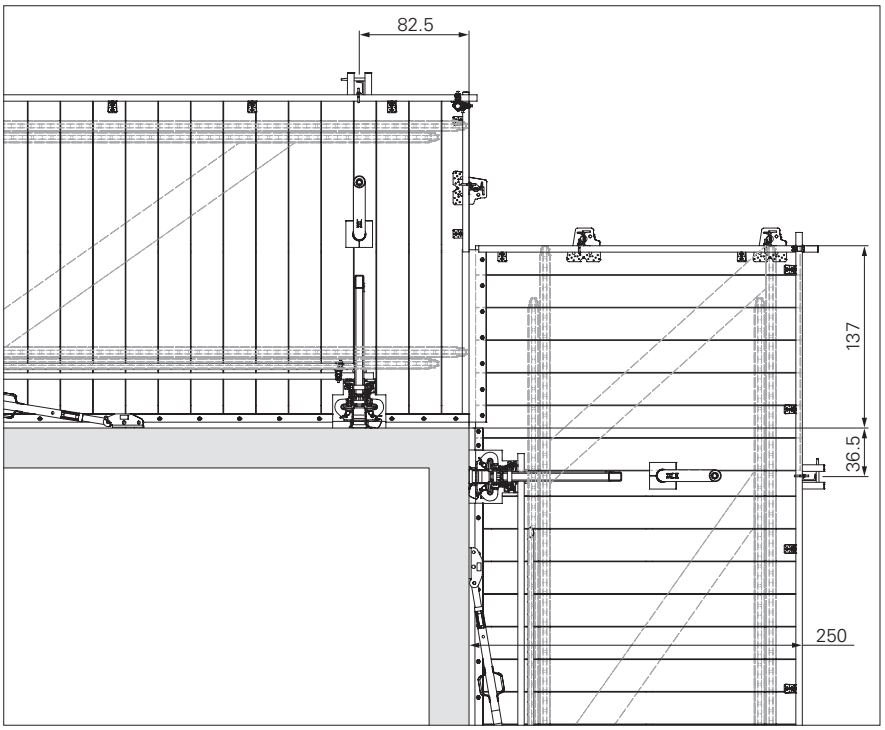


Fig. B3.04

Finishing platform

It must be possible to transition from one platform to the next without any issues. The minimum passage width must not be less than 50 cm.
Fix immovable covering over any remaining gaps.

Mitred finishing platform
Guide the platform beams up to the edge of the platform.
For corner areas, fit a multi-layered plywood sheet.
Cover the mitre gap with Cover Tape LPS screwed down on one side.
(Fig. B3.05)

Overlapping finishing platform
Connect cantilevered planking in the overhang area with planks screwed together underneath.
Cover the remaining platform gap with Cover Tape LPS screwed down on one side. (Fig. B3.06)

Recommended distance:
- to the structure 50 mm.
- to adjacent platform 30 mm.

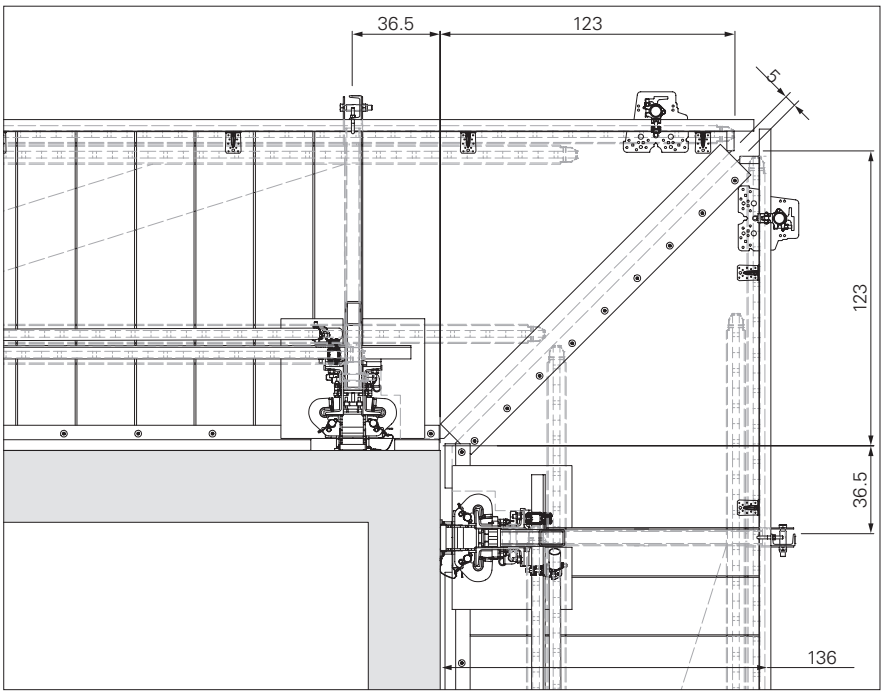


Fig. B3.05

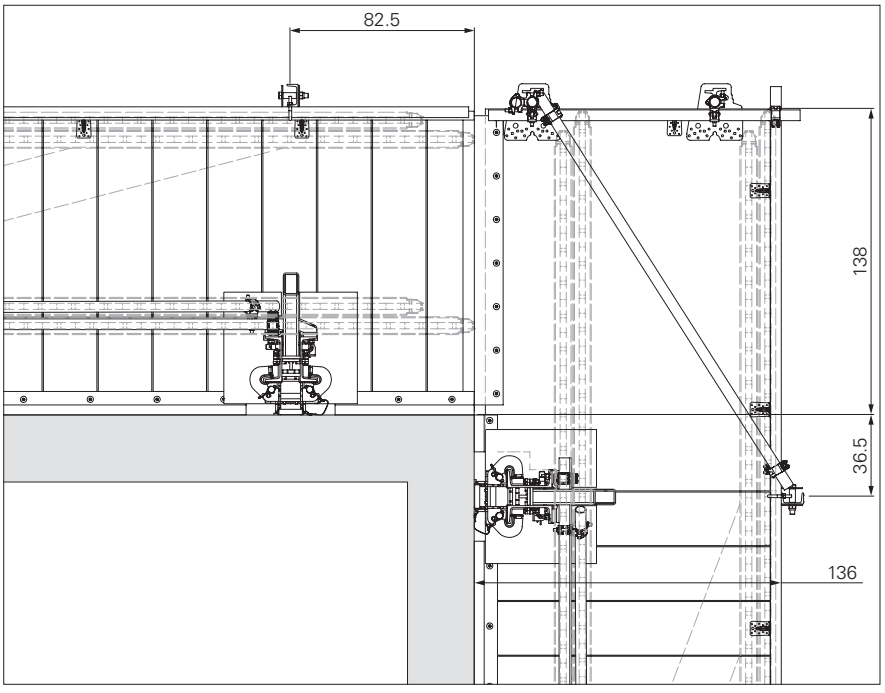


Fig. B3.06

Concreting platform

It must be possible to transition from one platform to the next without any issues. If there are no plans for a transition, position ladder access on each side. The minimum passage width must not be less than 50 cm.

Mitred concreting platform
Guide the platform beams up to the edge of the platform.
For corner areas, fit a multi-layered plywood sheet. Fit lateral protection on the front side.
Cover the mitre gap with Cover Tape LPS screwed down on one side.
(Fig. B3.07)

Overlapping concreting platform
Move the platform decking of the overlapping platform closer to the adjacent platform in the transition area.
Screw down cantilevered planking with squared timber screwed underneath at right angles to the direction of the planking.
Cover the remaining gap in the platform. (Fig. B3.08)

When the formwork is retracted, an unsecured open building edge is created at the corner. Cordon off the danger zone, e.g. with a chain between the formwork and the guardrail post, or use PPE.

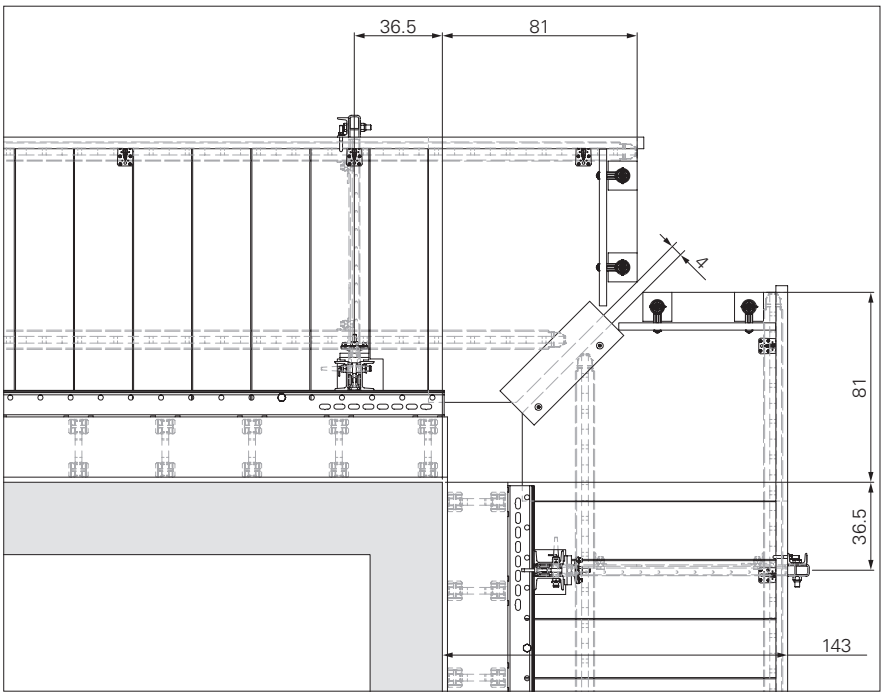


Fig. B3.07

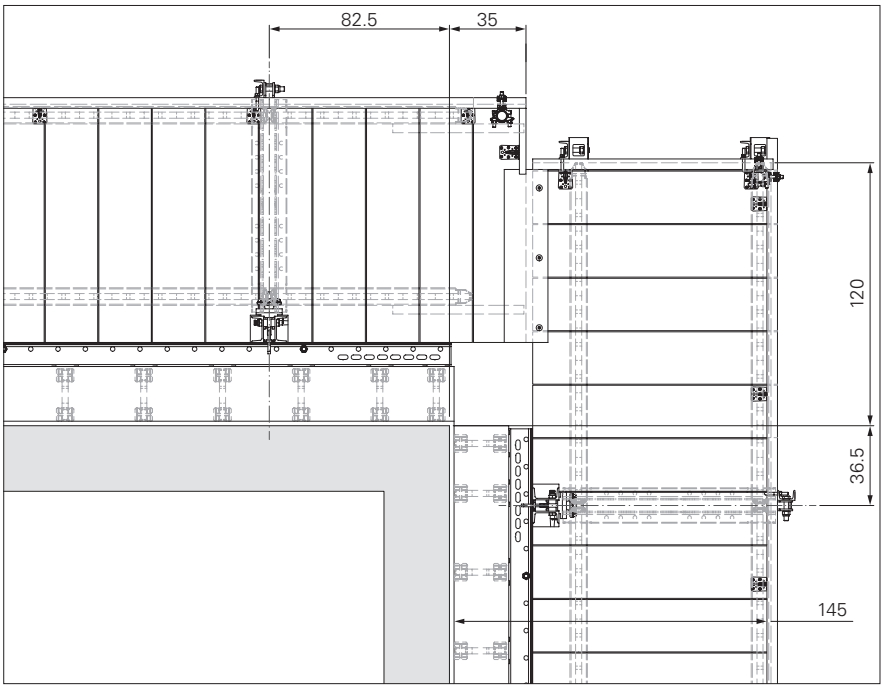


Fig. B3.08

Console bracket arrangement

The console brackets must be arranged in parallel to ensure the function of the carriage and the Climbing Rail Hinge RCS.

Screw the Wall Shoe RCS pivoted onto the anchoring (**74**). Fit Climbing Shoe RCS (**5**) onto the Wall Shoe RCS pivoted (**74**).

The Wall Shoe RCS pivoted (**74**) compensates for contortions of $\alpha \leq 15°$ between the axes of the anchoring and the truss section.

Separate static verification is required for the wall shoe and the anchoring.

The minimum radius for use of the rotatable wall shoe subject to the tie spacing c is calculated as:
max. $\alpha = 15°$

$$R \geq \frac{c}{2 \times \sin(15°)} \approx 2 \times c$$

Recommended distance:
- to the structure 50 mm,
- to adjacent platform 30 mm.

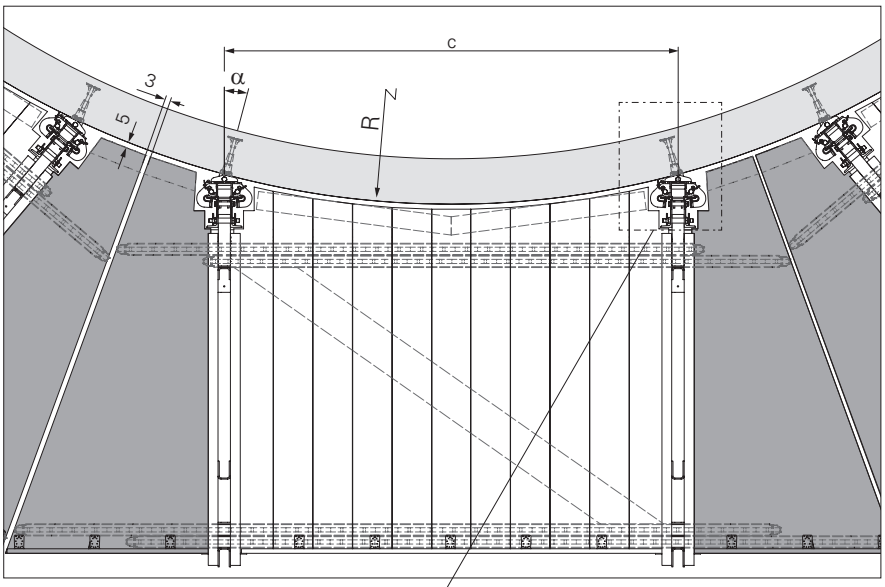


Fig. B4.01

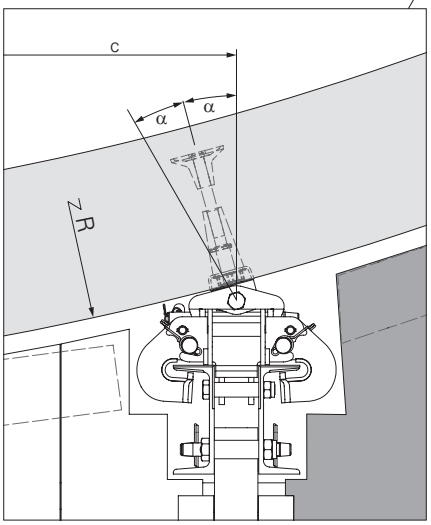


Fig. B4.01a

Guardrails

General requirements
Guardrails and lateral protection must be fitted according to valid safety regulations.
Guardrails must be fitted onto all leading edges and on all platform levels.
High working positions must be secured in order to prevent objects falling to the ground. To this end, fit safety nets or lateral protection with closed protection panels.

The following can be used as lateral protection:
- Handrail boards,
- Galvanised steel scaffolding tubes Ø 48.3 or Ø 60.3,
- Squared timber with enclosure made of netting, tarpaulin, plywood or trapezoidal metal sheeting.

(Fig. B5.01)

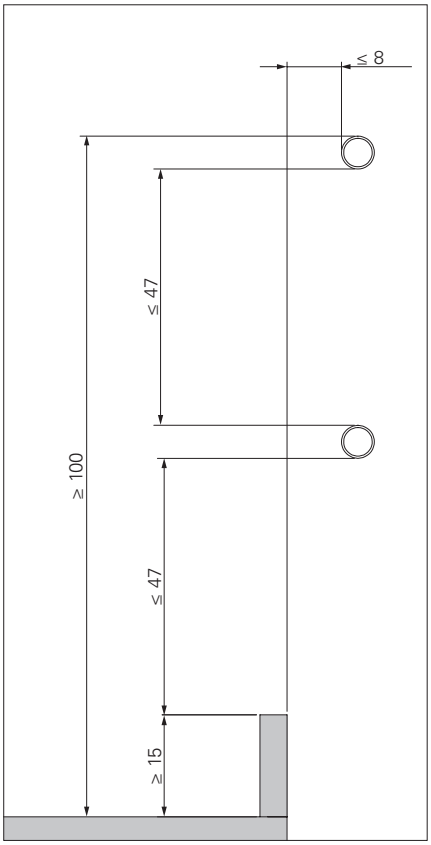


Fig. B5.01

Ladder cage with handrail boards

Requirements
Handrail boards (**82**) made of solid wood C24
Dimensions t/w = 3/15, 4/12 or 5/12 cm or according to the static verification.

Components

37 Guardrail Post RCS 226
67 Screw DIN 603 M8 x 70 MU
68 Washer ISO 7094-08-100HV-ga
69 Handrail boards

Assembly
1. Screw in the handrail boards (**69**) on the inside at a distance of a = 50 cm with Screw DIN 603 M8 x 70 MU (**67**) and Washer ISO 7094-08-100HV-ga (**68**) on the inside, e.g. on Guardrail Post RCS 226 (**37**).

(Fig. B5.02)

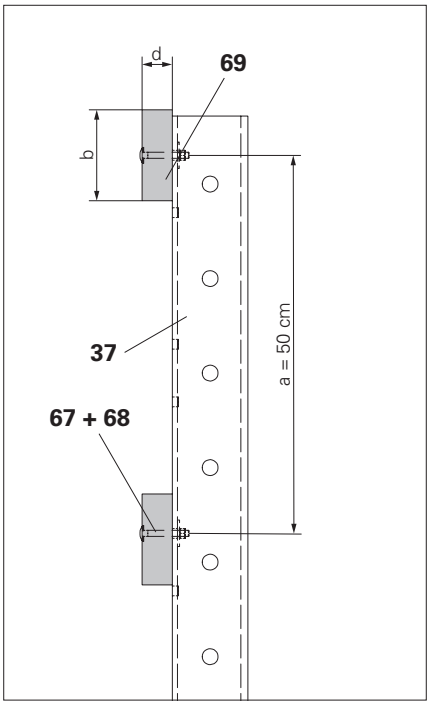


Fig. B5.02

Ladder cage with scaffolding tubes

Requirements
Steel scaffolding tubes (**39**), minimum quality St 37-2.
Dimensions Ø × t = 48.3 mm × 3.2 mm or 60.3 mm × 4.5 mm.

Components

37 Guardrail Post RCS 226
38 Clamp A64 DIN 3570-M12-ga
39 Scaff. Tube 48.3x3.2 mm lfm ga
44 Hex-Nut ISO 4032-M12-8-ga

Assembly
1. Insert Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39**) into Clamps A64 DIN 3570-M12-ga (**38**) and screw them into place on the inside with Hex-Nut ISO 4032-M12-8-ga (**44**), e.g. onto Guardrail Post RCS 226 (**37**).

(Fig. B5.03)

In the case of cantilevers greater than 1.10 m at the ends and spans of over 4.40 m in the centre of the bay, connect or support at least 4 Scaff. Tubes 48.3x3.2 mm lfm ga (**39**) using vertical scaffolding tubes. This prevents overloading.

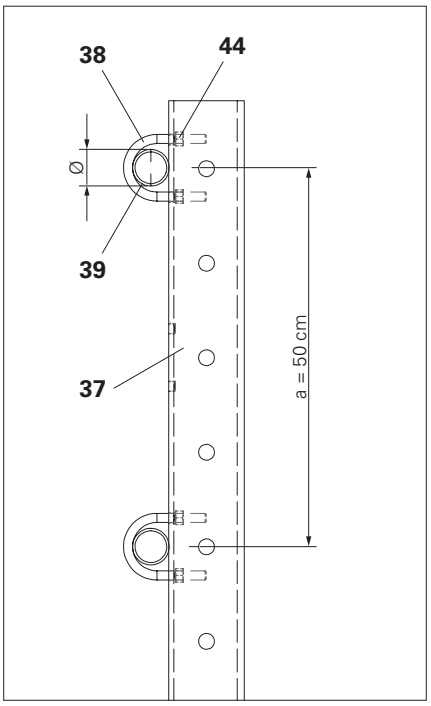


Fig. B5.03

Fitting safety nets
1. Attach the safety net according to the manufacturer information.
2. Guide the lower edge of the safety nets towards the building.
3. Ensure that there is a sufficient overlap with other parts of the enclosure.

Mesh size for enclosure nets ≤ 20 mm.
Scaffolding tube spacing a = 50 cm.
(Fig. B5.04)

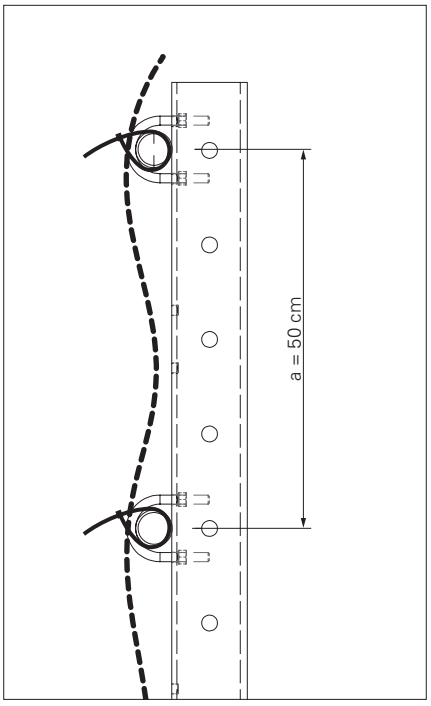


Fig. B5.04

Lateral guardrails

- Lateral guardrails are required if it is not possible to climb all platforms simultaneously during the climbing sequence.
- For alternative installation options, see the separate product information (on request).
- The length of the guardrails and toe boards must correspond to the width of the platforms.
- If the platform beams are only slightly displaced, screw the end guardrail posts in tight before installing the platform beams. Screw holes may otherwise be covered. (Fig. B5.05a)

Components

31 Toe Board 15 x 3
43 Guardrail Post RCS/SRU 184
68 Washer ISO 7094 100 HV, A8
70 Guardrail Post Holders Multi
73 Screw DIN 603-M08 x 045-4.8-ga-Nu
114 TSS-Torx 6 x 60

Assembly

1. Fix Guardrail Post Holder Multi (**70**) to the Formwork Girder GT 24 (**25**) using 12x TSS-Torx 6 x 60 (**114**).
2. Install Guardrail Post RCS/SRU 184 (**43**) with 2x bolt ISO 4017 M20 x 100-8.8 (**43.1**) and 2x Hex-Nut ISO 7040-M20-8-ga (**43.2**) in each case.
3. Fit the guardrail, see the following Section.
4. Screw Toe Board 15 x 3 (**31**) onto the Guardrail Post Holder Multi (**70**):
   – Pre-drill (Ø 8 mm) toe board.
   – Fix the toe board in place using Screw DIN 603-M08 x 045-4.8-ga-Nu (**73**) and Washers ISO 7094-08-100HV-ga (**68**).

(Fig. B5.05)

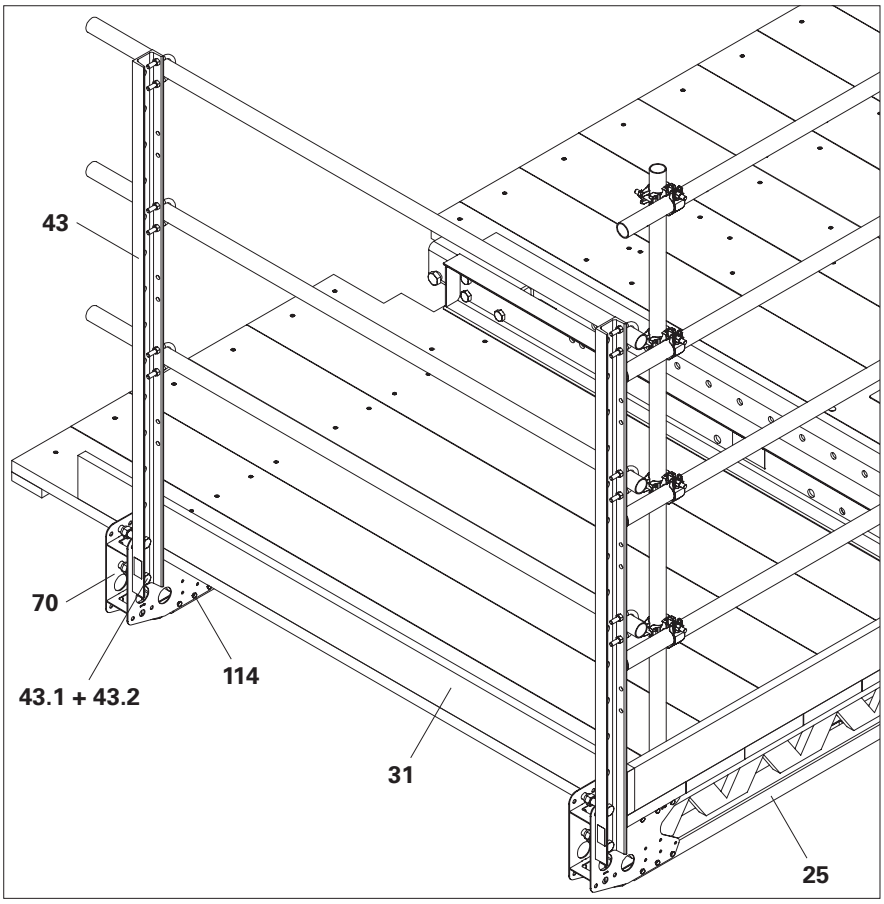


Fig. B5.05

Alternatively, the Guardrail Post Holder Multi can be fixed to the platform beam with Ø 8 pre-drilled bolts ISO 4014 M8 x100-8.8 + nut ISO 7042 M8-8 (**6x each**), especially in the case of higher guardrail posts or higher loads in the case of an enclosure.

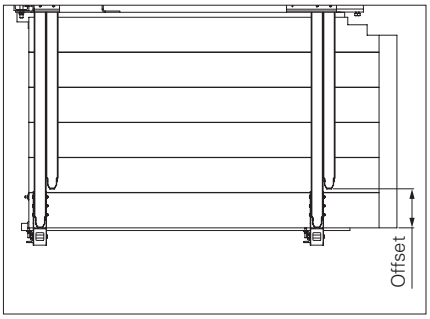


Fig. B5.05a

Mounting the handrail boards

Components

43 Guardrail Post RCS/SRU 184
67 Screw DIN 603 M8 x 70 MU
68 Washer ISO 7094-08-100HV-ga
69 Handrail boards

Assembly

1. Position handrail board (**69**) L x 12 x 4 cm on Guardrail Post RCS/SRU 184 (**43**).
2. Pre-drill the handrail board (Ø 8 mm).
3. Screw the handrail board onto Guardrail Post RCS/SRU 184 (**43**) with Screw DIN 603 M8 x 100 MU (**67**) and Washer ISO 7094-08-100HV-ga (**68**).

(Fig. B5.06)

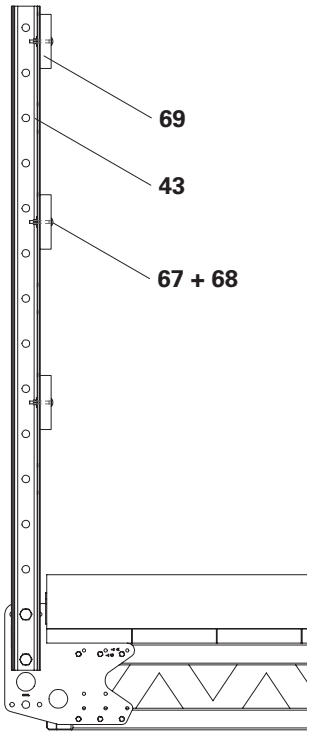


Fig. B5.06

Installing the scaffolding tubes

Components

38 Clamp A64 DIN 3570
39 Scaff. Tube 48.3x3.2 mm lfm ga
43 Guardrail Post RCS/SRU 184
44 Hex-Nut ISO 4032-M12-8-ga

Assembly
Installing the scaffolding tubes

1. Place Scaff. Tube 48.3 x 3.2 mm lfm g a (**39**) into Clamps A64 DIN 3570 (**38**).
2. Insert Clamps A64 DIN 3570 (**38**) into Guardrail Post RCS/SRU 184 (**43**).
3. Screw Clamps A64 DIN 3570 (**38**) into place with 2x Hex-Nuts ISO 4032-M12-8-ga (**44**).

(Fig. B5.07)

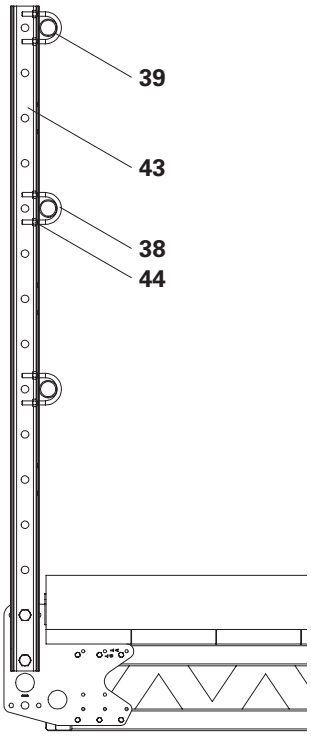


Fig. B5.07

Position of the leading tie

VARIO
Keep a distance of at least 3 cm between the leading tie axis and the adjacent girders so that the Climbing Cone-2 DW 20 M30 ga (**76**) can be fitted with the Advancing Screw M30 ga (**80**).
(Fig. B6.01)

TRIO/MAXIMO
Keep a distance of at least 3 cm horizontally and at least 4 cm vertically between the leading tie axis and the struts of the formwork so that the leading tie can be fixed with the advancing screw.
(Fig. B6.02a + B6.02b)

If the tie position falls on struts (**83.1**) or girders, fit the Climbing Cone-2 DW 20 M30 ga (**76**) with Anchor Positioning Stud M30 (**82**). Nail the Anchor Positioning Stud M30 (**82**) to the formlining with wire nails 3 x 80 (**75**).
(Fig. B6.01 + B6.02a + B6.02b)

Components

75 Wire nail 3 x 80
76 Climbing Cone-2 DW 20 M30 ga
77 Threaded Anchor Plate DW 20
78 Tie Rod DW 20, special length
79 Anchor Posit. Plate M30 ga
80 Advancing Screw M30 ga
82 Anchor Positioning Stud M30 ga

When using the tie positioning disc, secure the cone and the threaded anchor plate to prevent them from slipping, e.g. with additional horizontal, adjacent reinforcement bars that are connected to the base reinforcement.

Top view

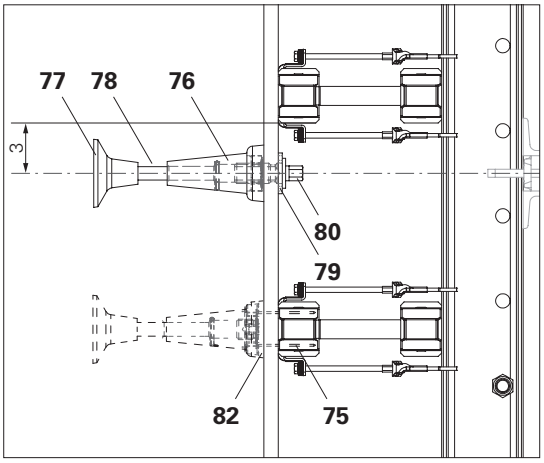


Fig. B6.01

Top view

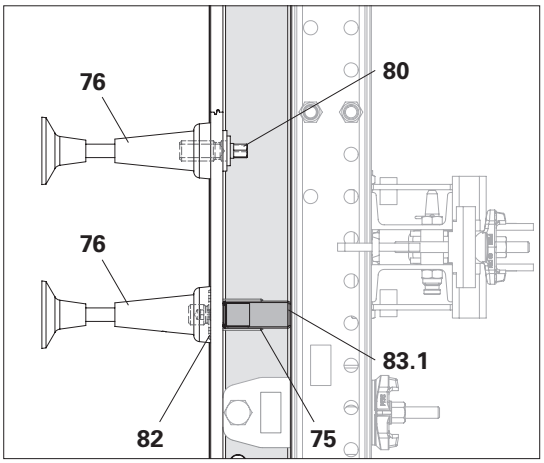


Fig. B6.02a

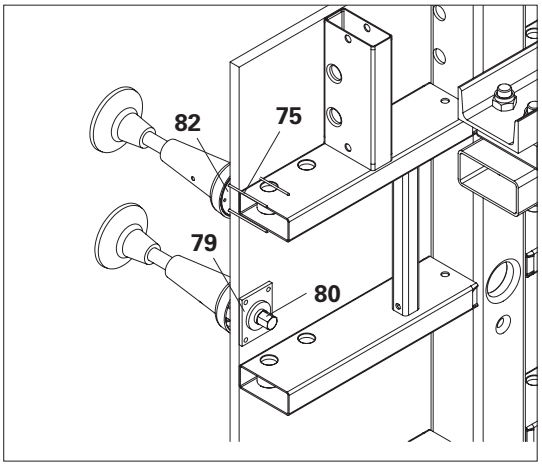


Fig. B6.02b

Planning the climbing sequence

Keep the following points in mind when planning the climbing sequence and putting together the work instructions:

- Form the decks, especially on corner and internal platforms, in such a way that they do not collide with the platforms or formwork of adjacent climbing units during the climbing process.
- Plan access and ladder descents in such a way that there is safe access to all climbing units at all times.
- Specify appropriate measures to cordon off or secure the open building edges that appear.
- Refer to the RCS MAX Climbing Device and hydraulics assembly instructions for information on hydraulic planning.

Attachment point for crane

The size of climbing units may be restricted by the permissible load of the attachment point. For this purpose, determine the weight of relevant movable units during planning.

When assembling and dismantling climbing units that are moved with the self-climbing device, also observe the permissible load of the attachment points.

Specify the weight of the movable units in the arrangement drawings.

Standard case: Climbing

Attaching to Climbing Rail RCS	
Attachment point of spacer M24-82	
Load-bearing capacity per attachment point:	4,500 kg
Max. weight of climbing unit:	9,000 kg
Attachment point Fitting Pin Ø26x120 mm	
Load-bearing capacity per attachment point:	3,500 kg
Max. weight of climbing unit:	7,000 kg

Attaching to the Strongback SRU	
Attachment point for Spacer-2 LPS 52	
Load-bearing capacity per attachment point:	4,800 kg
Max. weight of movable unit:	9,000 kg
Attachment point of Lifting Eye-2 BR 2.5 t ga with Spacer-2 LPS 52 or Spacer for BR	
Load-bearing capacity per attachment point:	2,500 kg
Max. weight of movable unit:	5,000 kg

Transportation by crane without climbing beam

If, in exceptional cases, it is not possible to use a climbing beam, squared timber must be fitted between the upper ends of the strongback as a compression brace. To fix it in position, screw the squared timber to the concreting platform.

Minimum dimensions w/h of Squared Timber KVH C24 for bracket distances c:
c ≤ 4.50 m: w/h = 10/10 cm
c ≤ 5.00 m: w/h = 10/12 cm
c ≤ 5.50 m: w/h = 10/14 cm
c ≤ 6.00 m: w/h = 10/16 cm

Use the Lifting Eye-2 BR 2.5 t ga as an attachment point.
Follow the instructions for use!

Assembly
Fit the Lifting Eye-2 BR 2.5 t ga (**115**) into the top hole of Steel Waler Universal SRU U120 (**55**).with Spacer-2 LPS 52 (**63**) or the spacer for Platform Beam BR (**116**).

- Max. crane sling angle 15°.
- Max. projection of the Strongback SRU beyond the compression brace 50 cm.
- Load-bearing capacity per attachment point 2,500 kg.
- Max. weight of the movable unit 5,000 kg.

Moving with the Climbing Traverse RCS 9 t

- Always lift and move climbing units with Climbing Traverse RCS 9 t (**62**).
- For safe attachment and removal of the crane hook, provide suitable measures to prevent falls.
- Relevant instructions for use for Climbing Traverse RCS 9 t (**62**).
- Ensure loads are evenly balanced when they are picked up.

Components

55 Steel Waler Universal SRU U120
62 Climbing Traverse RCS 9 t
63 Spacer-2 LPS 52

Fit the attachment point:

1. Fit Spacer-2 LPS 52 (**63**) into the top hole of the Steel Waler Universal SRU U120 (**55**).
   – Load-bearing capacity per attachment point 4,500 kg.
   – Maximum total weight of the climbing unit 9,000 kg.

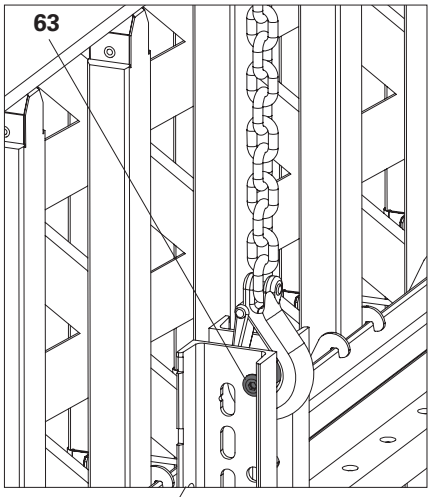


Fig. B6.03a

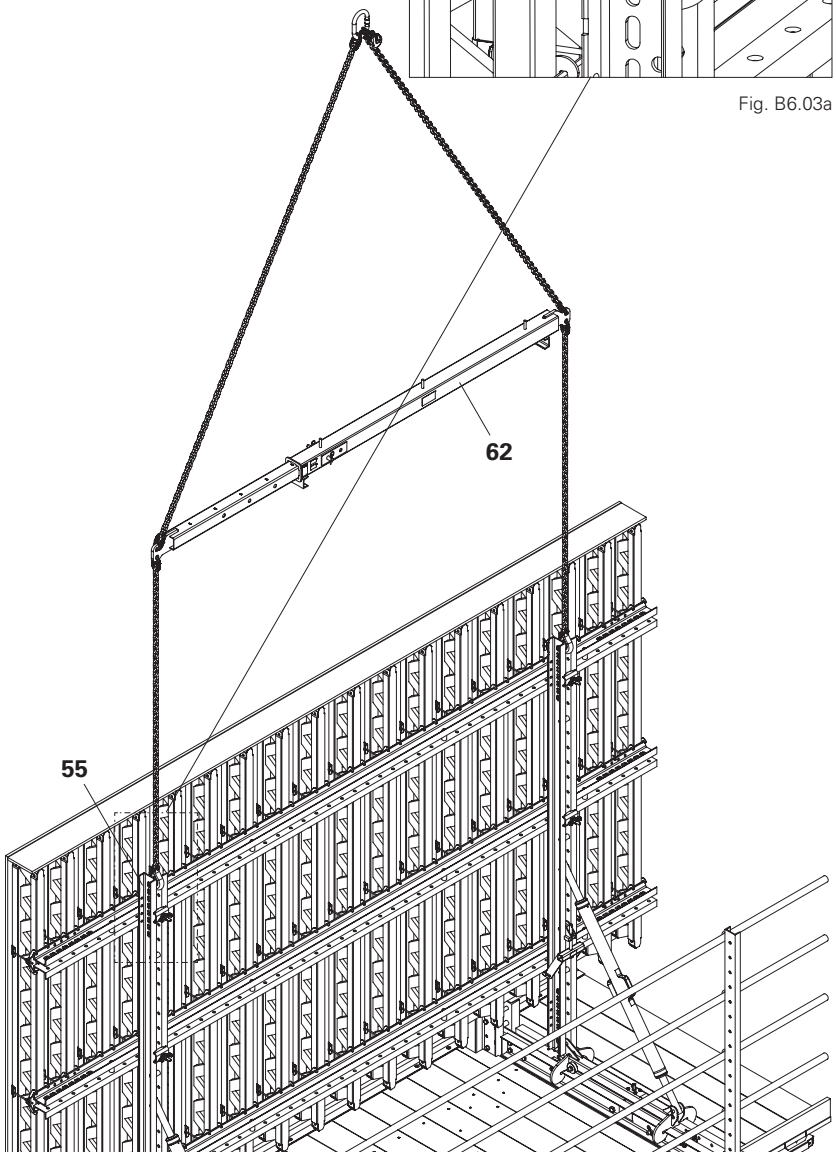


Fig. B6.03

C1 Pre-assembly of the work platform

Preparing for assembly

- For assembly, a crane or other lifting device as well as a level assembly surface are required.
- Secure intermediate posts with temporary supports to prevent tipping over.
- Observe project-specific drilling plans.
- Aligned and calibrated stops simplify the process of pre-assembling the work platform in a quick and precise manner. (Fig. C1.01)

Fitting the assembly surface

1. Fit sufficiently long squared timber 12 x 12 cm onto the assembly surface, spaced out so they are 186 cm apart.
2. Fit stops onto the 12 x 12 cm squared timber at the distance "C".
3. Fit stops onto the rear of the squared timber.

(Fig. C1.01)

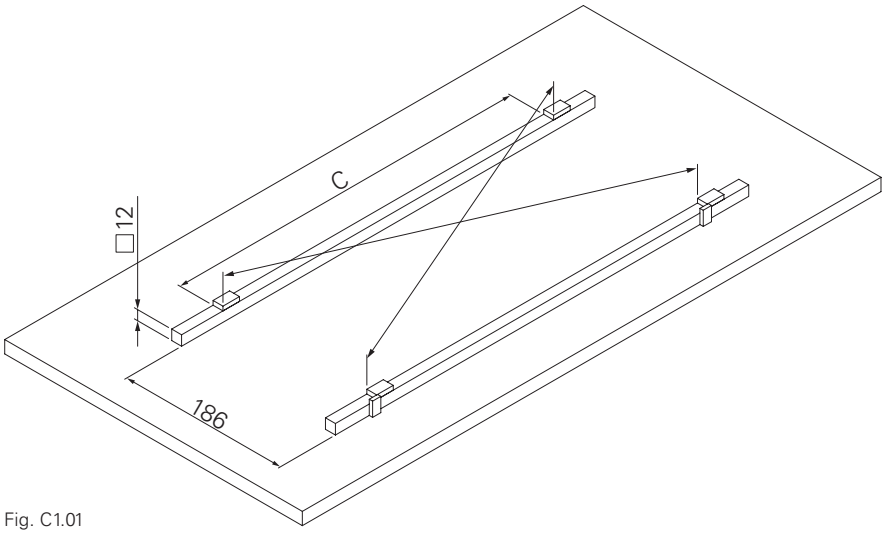


Fig. C1.01

Assembling the platform

Components

24 Crossbeam Head RCS 220 VARIO
25 Formwork Girder GT 24
26 Screw DIN 603-M08x200-4.8-ga-Nu
27 Planking
30 Lateral plank
31 Toe Board 15 x 3
32 Hatch-2 RCS 55 x 60 foldable
33 Wood-Screw 6 x 40 SK-TX30 HPI
34 Angle Connector 90 x 90 x 65 mm
35 Spax Screw TX 30 6 x 80
36 Spax Screw TS 25.5 x 20
37 Guardrail Post RCS 226
38 Clamp A64 DIN 3579-M12-ga
39 Scaff. Tube 48.3 x 3.2 mm lfm ga
44 Hex-Nut ISO 4032-M12-8-ga
60 Plank 12 x 4
68 Washer ISO 7094-08-100HV-ga

Check perpendicularity by comparing diagonals.

Preparing the Cross-beam Head RCS 220 VARIO

1. Place the Cross-beam Heads RCS 220 VARIO (**24**) against the stops and align them.

(Fig. C1.02)

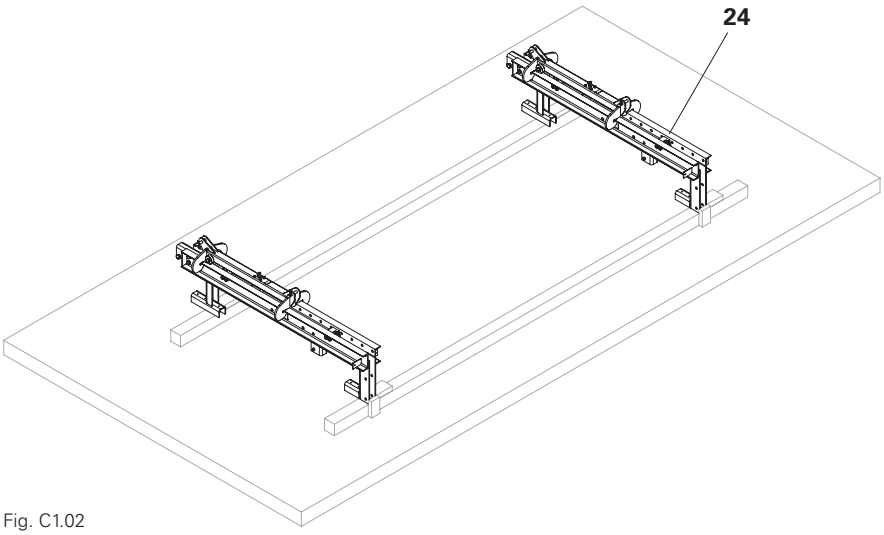


Fig. C1.02

Aligning and installing the platform beams

1. Pre-drill the Formwork Girders GT 24 (**25**) with Ø 8 mm holes according to the drilling plan.
2. Position the Formwork Girders GT 24 (**25**) on the Crossbeam Heads RCS 220 VARIO (**24**) according to the plan and align them.

(Fig. C1.03)

3. Fit 2x Formwork Girders GT 24 (**25**) with Screws DIN 603-M08 x 200-4.8-ga-Nu (**26**) and Washers ISO 7094-08-100HV-ga (**68**) onto the Crossbeam Heads RCS 220 VARIO (**24**).

(Fig. C1.03a + C1.03b)

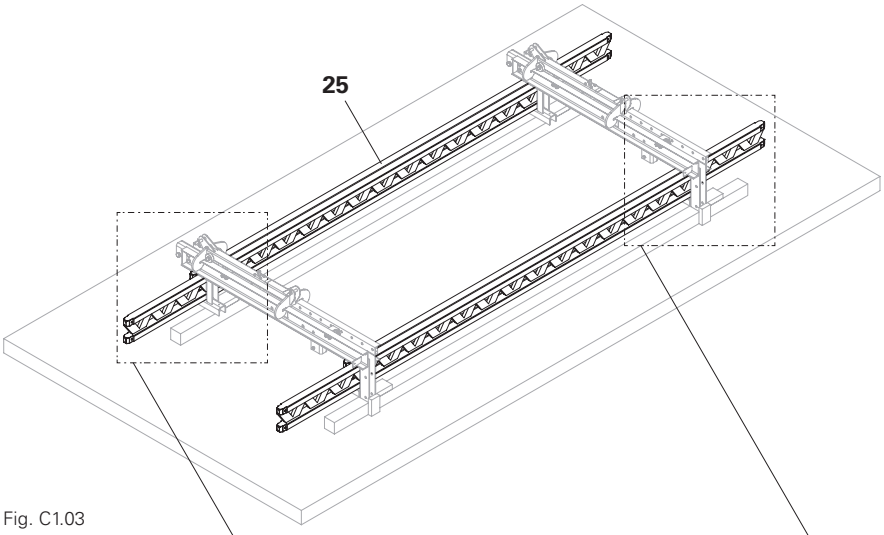


Fig. C1.03

- Double beam arrangement:
  - 2x Formwork Girder GT 24 or 2x Girder VT 20.
  - Screw DIN 603-M08 x 200-4.8-ga-Nu.
- Single beam arrangement:
  - Formwork Girder GT 24 or Girder VT 20.
  - Screw DIN 603 M8 x 100 MU.

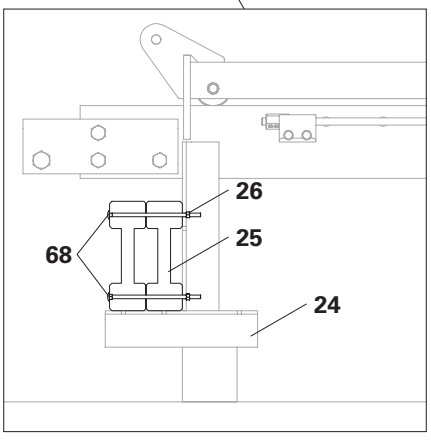


Fig. C1.03a

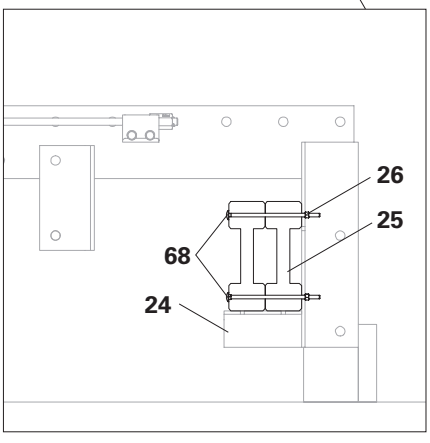


Fig. C1.03b

Installing the platform decking

Assembly

1. Saw the planking (**27**) to the specified length.
2. Screw down the planking (**27**) at each intersection with a Formwork Girder GT 24 (**25**) using 2x Spax Screw TX 30 6 x 80 (**35**).
3. Screw plank 12 x 4 (**60**) onto the planking (**27**) using Spax Screw TX 30 6 x 80 (**35**).
4. Screw lateral plank (**30**) onto the planking (**27**) using Spax Screw TX 30 6 x 80 (**35**).
5. Fix plank 12 x 4 (**60**) to support the hatch opening using Spax Screw TX 30 6 x 80 (**35**) and Screw DIN 603 M8 x 125 MU (**61**) and Washers ISO 7094-08-100HV-ga (**68**).

(Fig. C1.04 + C1.04a)

6. Saw the recesses and hatch opening out of the planking.

(Fig. C1.04 + C1.04b)

- Secure cantilevered planking with plank 12 x 4 (**60**).
- Make sure that the planking on the outside has a minimum width of 10 cm!
- Check the distance between the crossbeam unit and the edge of the decking.

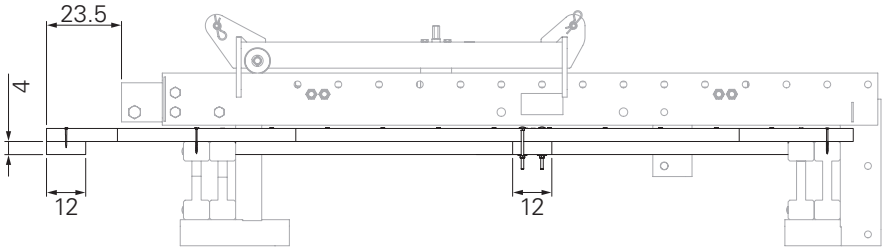


Fig. C1.04a

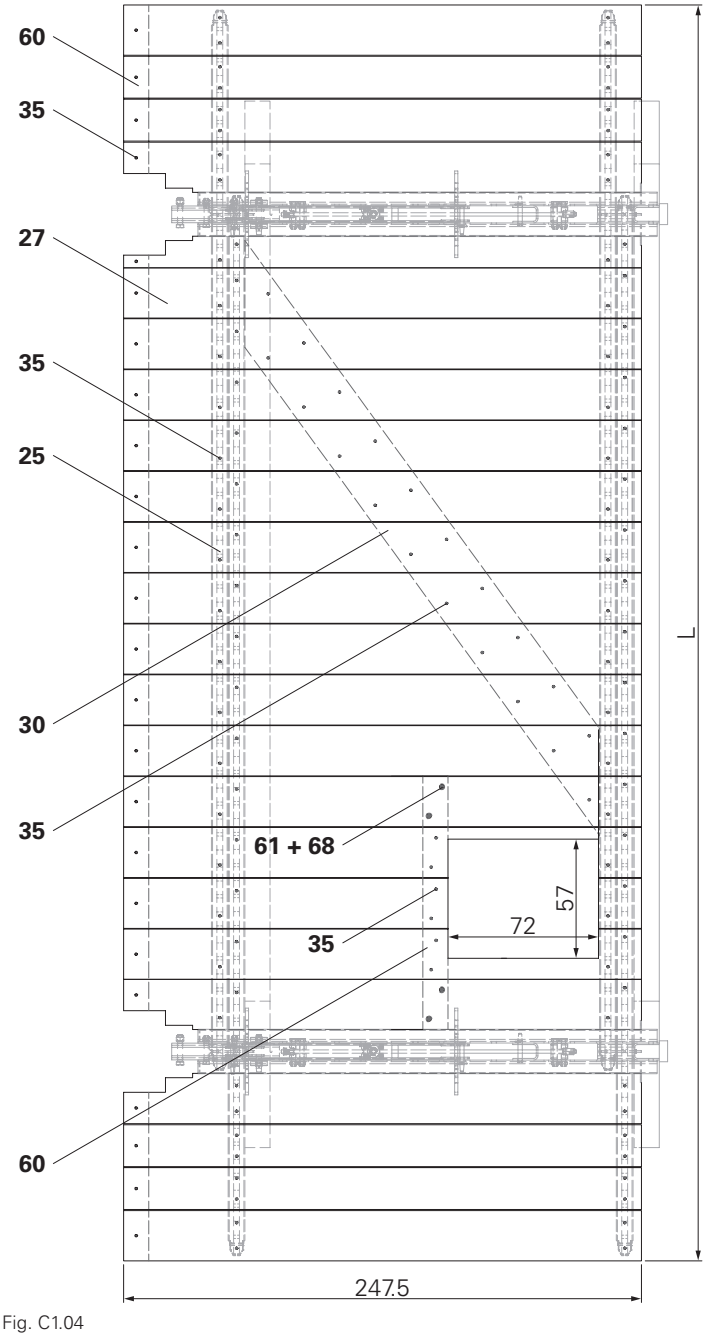


Fig. C1.04

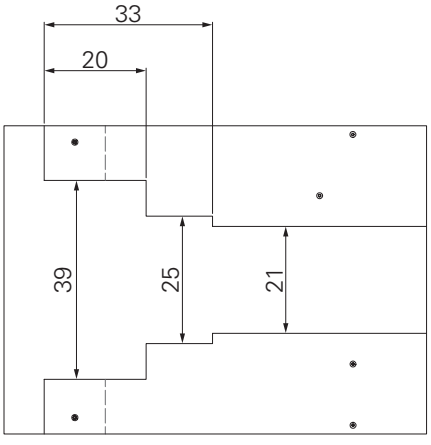


Fig. C1.04b

C1 Pre-assembly of the work platform

Fitting the hatch

1. Place Hatch-2 RCS 55x60 foldable (**32**) in the prepared recess. The opened hatch cover points towards the wall side.
2. Screw the frame of the hatch and the planking together with approx. 16x Wood-Screw 6 x 40 SK-TX30 HPI (**33a**).

(Fig. C1.05 + C1.05a)

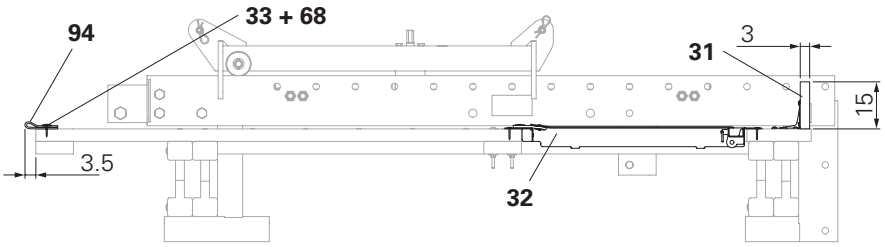


Fig. C1.05a

Fitting the toe board

1. Fix Toe Board 15 x 3 (**31**) with Angle Connector 90 x 90 x 65 mm (**34**) at a distance of approx. 1 m with Wood-Screw 6 x 40 SK-TX30 HPI (**33b**) to the deck (**27**).

(Fig. C1.05 + C1.05a)

Applying the cover tape

1. Cut Cover Tape LPS 0.20 x 10 m (**94**) to the planned length.
2. Fix Cover Tape LPS 0.20 x 10 m (**94**) to the deck (**27**) with Wood-Screw 6 x 40 SK-TX30 HPI (**33**) and Washer ISO 7094-08-100HV-ga (**68**).

(Fig. C1.05 + C1.05a)

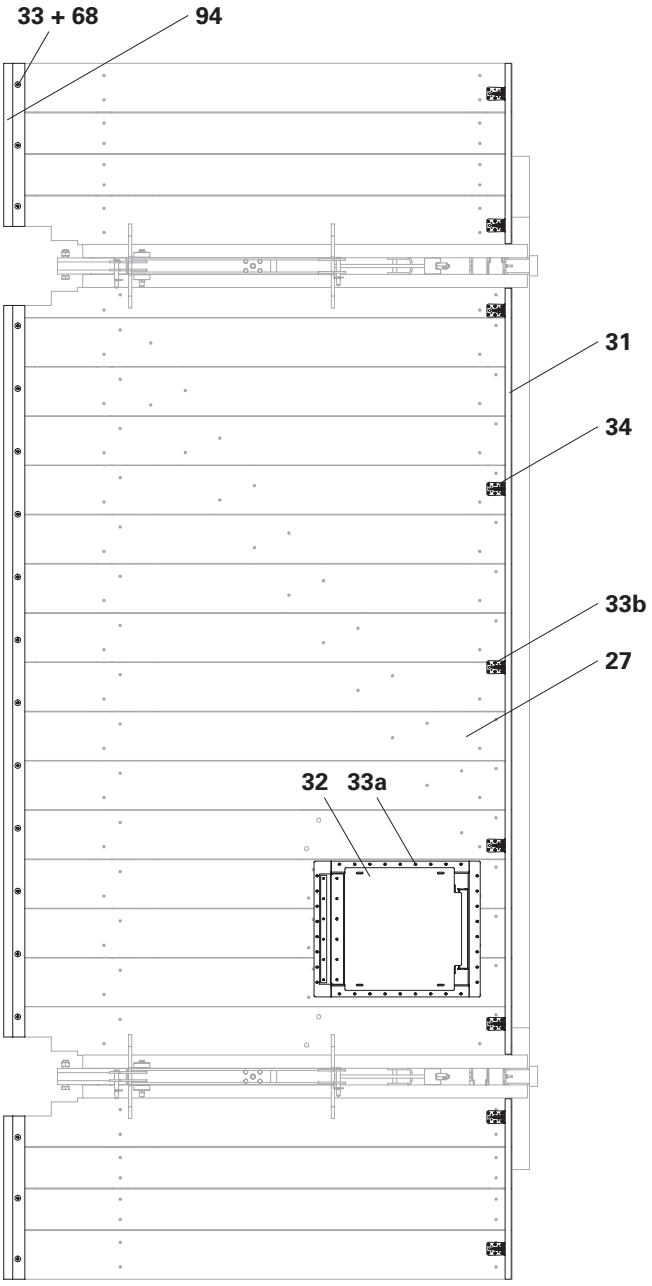


Fig. C1.05

Mounting the guardrail post

1. Remove 2x bolt ISO 4014 M20 x 120-8.8 (**37.1**) and 2x Hex-Nut ISO 7040-M20-8-ga (**37.2**) from Guardrail Post RCS 226 (**37**).
2. Insert Guardrail Post RCS 226 (**37**) into Crossbeam Head RCS 220 VARIO (**24**).
3. Fit the guardrail post onto Crossbeam Head RCS 220 VARIO (**24**) with 2x bolt ISO 4014 M20 x 120-8.8 (**37.1**) and 2x Hex-Nut ISO 7040-M20-8-ga (**37.2**).

(Fig. C1.06 + C1.06a)

Standard configuration with scaffolding tubes or handrail boards:
Fixing holes in the guardrail post point inwards.

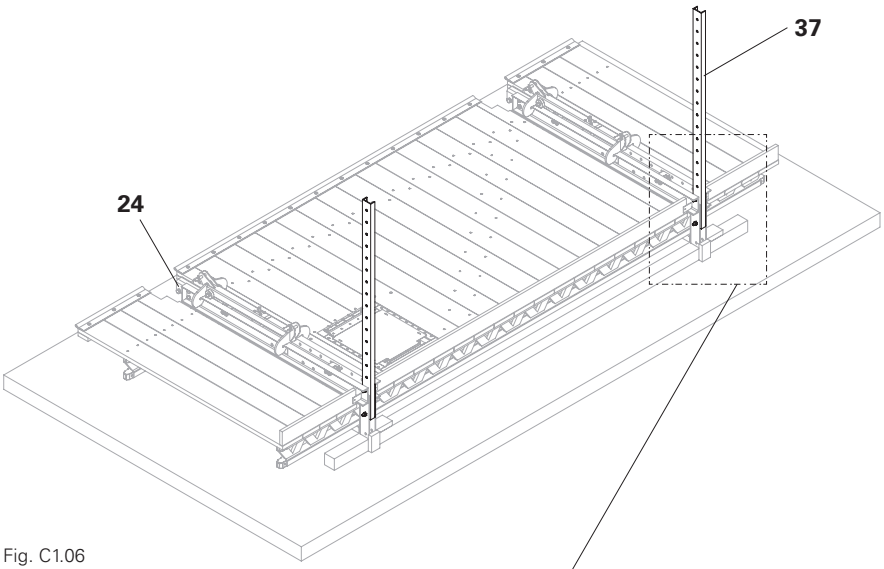


Fig. C1.06

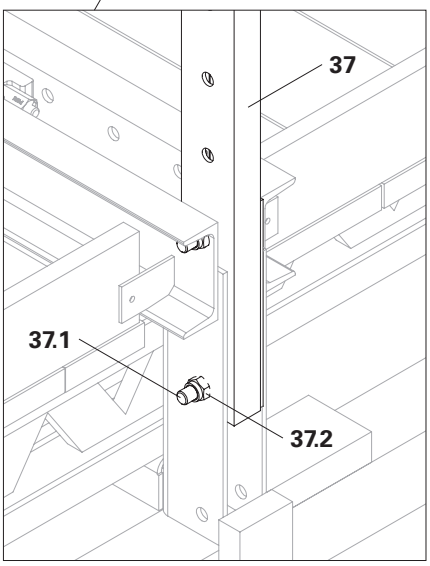


Fig. C1.06a

Installing the scaffolding tubes

1. Insert Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39**) into
   Clamps A64 DIN 3570-M12-ga (**38**) and screw them into place on the inside with Hex-Nut ISO 4032-M12-8-ga (**44**), e.g. onto Guardrail Post RCS 226 (**37**).

(Fig. C1.07 + C1.07a)

- In the case of cantilevers with d > 1.10 m at the ends and spans of c > 4.40 m in the centre of the bay, connect or support at least 4 scaffolding tubes Ø 48.3 x 3.2 in order to prevent overloading.
- Refer to the project-specific plan for the length of the scaffolding tubes.
- Refer to the project-specific plan for the assembly process for the following lateral protection components:
  – Handrail boards,
  – Scaffolding tube Ø 60.3,
  – Scaffolding tubes with net enclosure,
  – Squared timber with full enclosure.

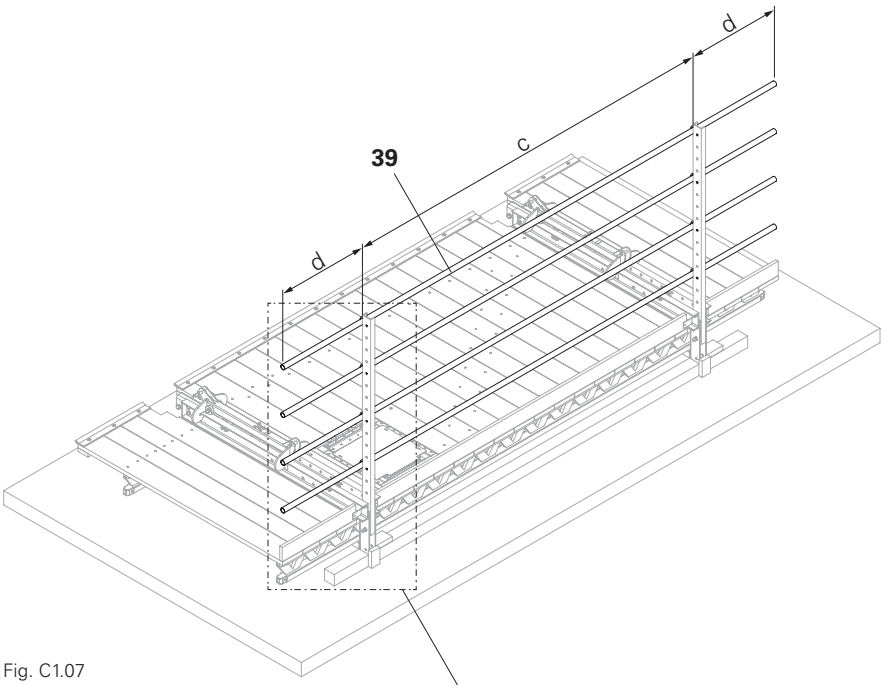


Fig. C1.07

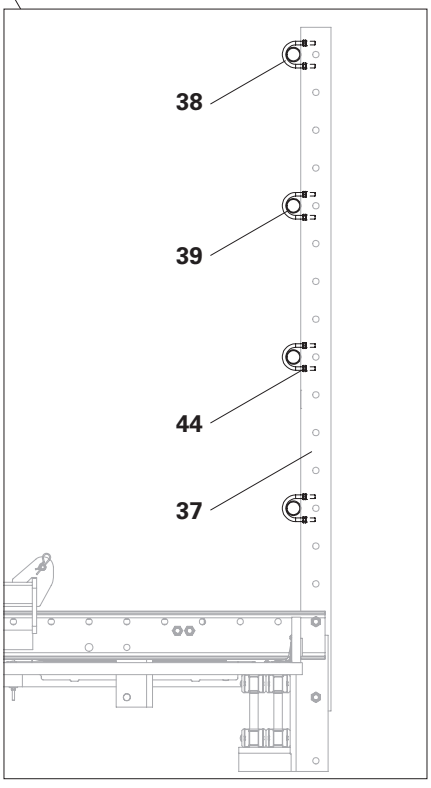


Fig. C1.07a

C2 Pre-assembly of the intermediate platform

Preparing for assembly

- For assembly, a crane or other lifting device as well as a level assembly surface are required.
- Secure intermediate posts with temporary supports to prevent tipping over.
- Observe project-specific drilling plans.
- Aligned and calibrated stops simplify the process of pre-assembling the work platform in a quick and precise manner. (Fig. C2.01)

Fitting the assembly surface

1. Fit sufficiently long squared timber 12 x 12 cm onto the assembly surface, spaced out so they are 180 cm apart.
2. Fit stops onto the 12 x 12 cm squared timber at the distance "C".
3. Fit stops onto the rear of the squared timber.

(Fig. C2.01)

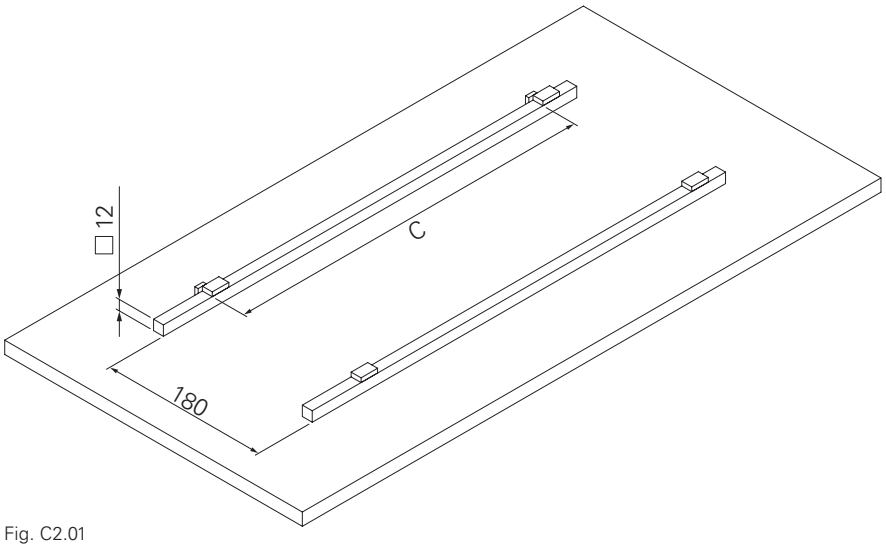


Fig. C2.01

Assembling the platform

Components

28 Intermediate Platform Girder RCS 241
25 Formwork Girder GT 24
26 Screw DIN 603-M08 x 200-4.8-ga-Nu
27 Planking
30 Lateral plank
31 Toe Board 15 x 3
32 Hatch-2 RCS 55 x 60 foldable
33 Wood-Screw 6 x 40 SK-TX30 HPI
34 Angle Connector 90 x 90 x 65 mm
35 Spax Screw TX 30 6 x 80
36 Spax Screw TS 25.5 x 20
60 Plank 12 x 4
68 Washer ISO 7094-08-100HV-ga

C2 Pre-assembly of the intermediate platform

Preparing the Intermediate Platform Girder RCS 241

1. Place the Intermediate Platform Beam RCS 241 (**28**) against the stops and align it. (Fig. C2.02)

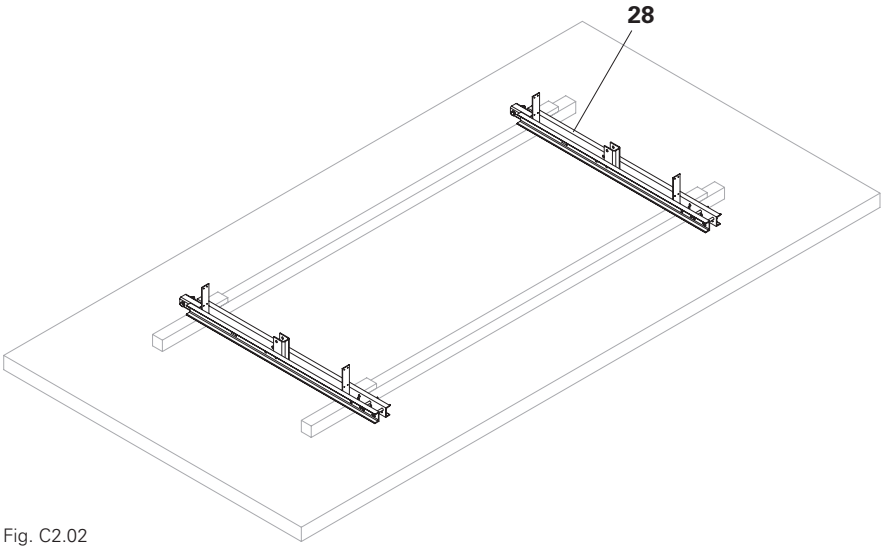


Fig. C2.02

Aligning and installing the platform beams

1. Pre-drill the Formwork Girders GT 24 (**25**) with Ø 8 mm holes according to the drilling plan.
2. Position the Formwork Girder GT 24 (**25**) on the Intermediate Platform Beams RCS 241 (**28**) according to the plan and align them (Fig. C2.03)
3. Fit Formwork Girders GT 24 (**25**) with Screws DIN 603-M08x200-4.8-ga-Nu (**26**) and Washers ISO 7094-08-100HV-ga (**68**) onto the Intermediate Platform Beams RCS 241 (**28**).

(Fig. C2.03a + C2.03b)

- Double beam arrangement:
  - 2x Formwork Girder GT 24 or 2x Girder VT 20.
  - Screw DIN 603-M08x200-4.8-ga-Nu.
- Single beam arrangement:
  - Formwork Girder GT 24 or Girder VT 20.
  - Screw DIN 603 M8 x 100 MU.

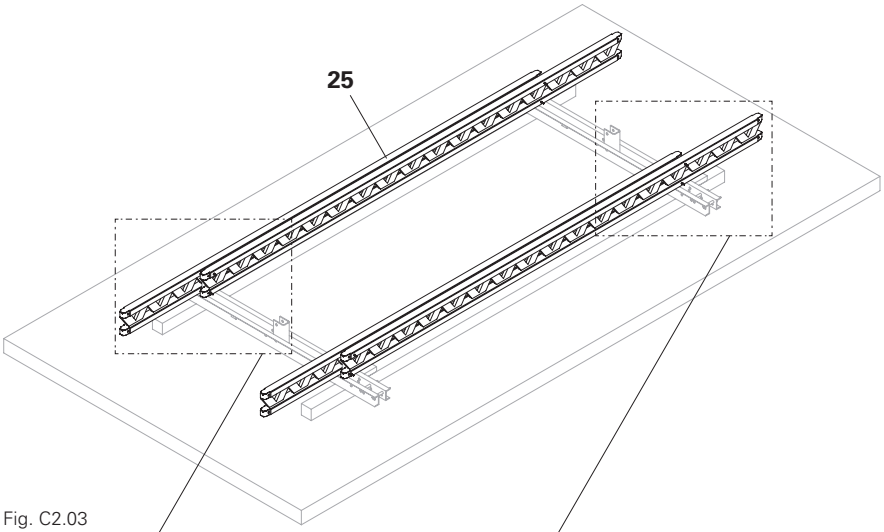


Fig. C2.03

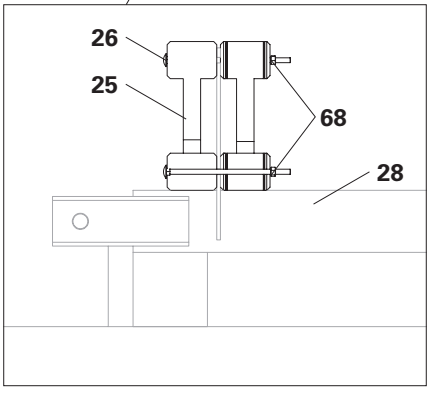


Fig. C2.03a

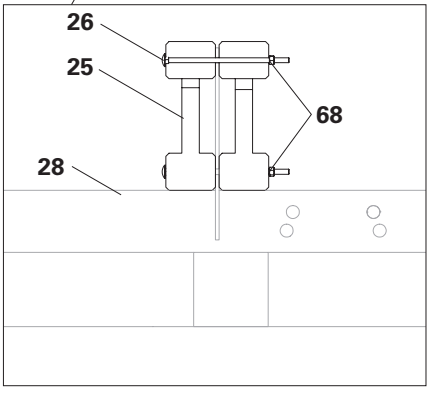


Fig. C2.03b

Installing the platform decking

Assembly

1. Saw the planking (**27**) to the specified length.
2. Screw down the planking (**27**) at each intersection with a Formwork Girder GT 24 (**25**) using 2x Spax Screw TX 30 6 x 80 (**35**).
3. Screw plank 12 x 4 (**60**) onto the planking (**27**) using Spax Screw TX 30 6 x 80 (**35**).
4. Screw lateral plank (**30**) onto the planking (**27**) using Spax Screw TX 30 6 x 80 (**35**).
5. Fix plank 12 x 4 (**60**) to support the hatch opening using Spax Screw TX 30 6 x 80 (**35**) and Screw DIN 603 M8 x 125 MU (**61**) and Washers ISO 7094-08-100HV-ga (**68**).

(Fig. C2.04 + C2.04a)

6. Saw the recesses and hatch opening out of the planking.

(Fig. C2.04 + C2.04b)

- Secure cantilevered planking with plank 12 x 4 (**60**).
- Make sure that the planking on the outside has a minimum width of 10 cm!
- Check the distance between the crossbeam unit and the edge of the decking.

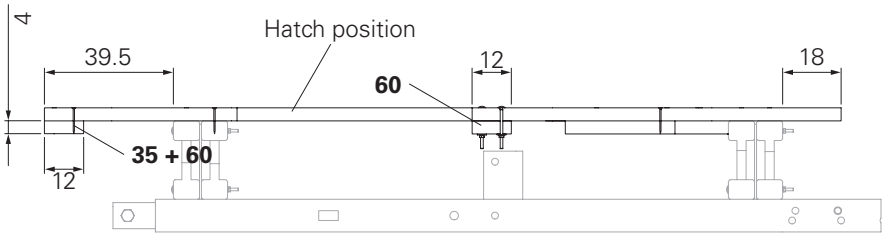


Fig. C2.04a

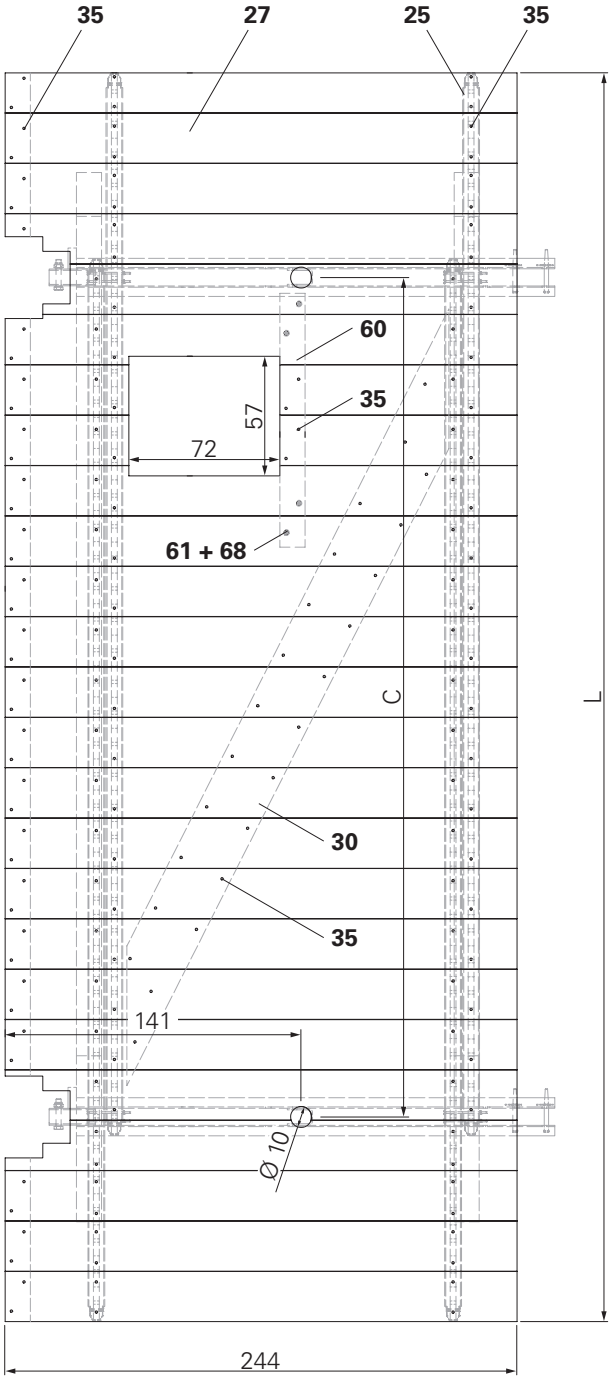


Fig. C2.04

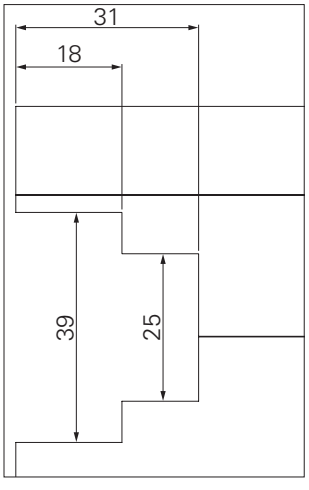


Fig. C2.04b

C2 Pre-assembly of the intermediate platform

Fitting the hatch

1. Place Hatch-2 RCS 55x60 foldable (**32**) in the prepared recess. The opened hatch cover points towards the wall side.
2. Screw the frame of the hatch and the planking together with approx. 16x Wood-Screw 6x40 SK-TX30 HPI (**33a**).

(Fig. C2.05 + C2.05a)

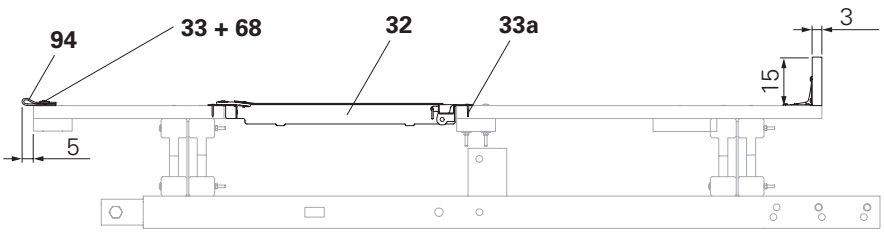


Fig. C2.05a

Fitting the toe board

1. Fix toe board 15 x 3 (**31**) with Angle Connector 90x90x65 mm (**34**) at a distance of approx. 1 m with Wood-Screw 6 x 40 SK-TX30 HPI (**33b**) to the deck (**27**).

(Fig. C2.05 + C2.05a)

Applying the cover tape

1. Cut Cover Tape LPS 0.20 x 10 m (**94**) to the planned length.
2. Fix Cover Tape LPS 0.20 x 10 m (**94**) to the deck (**27**) with Wood-Screw 6x40 SK-TX30 HPI (**33**) and Washers ISO 7094-08-100HV-ga (**68**).

(Fig. C2.05)

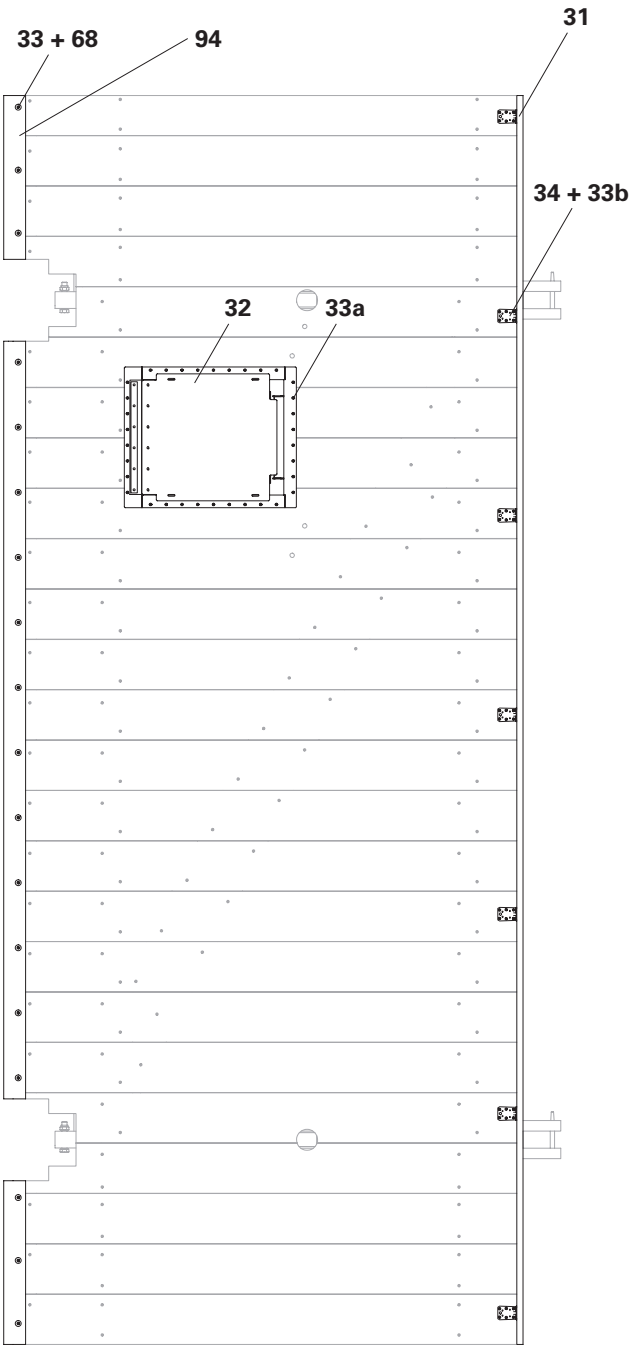


Fig. C2.05

C3 Pre-assembly of the finishing platform

Preparing for assembly

- A flat assembly surface is required for installation.
- Secure intermediate posts with temporary supports to prevent tipping over.
- Aligned and calibrated stops simplify the process of pre-assembling the work platform in a quick and precise manner. (Fig. C3.01)

Fitting the assembly surface

1. Fit sufficiently long squared timber 12 x 12 cm onto the assembly surface, spaced out so they are 186 cm apart.
2. Fit stops onto the 12 x 12 cm squared timber at the distance "C".

(Fig. C3.01)

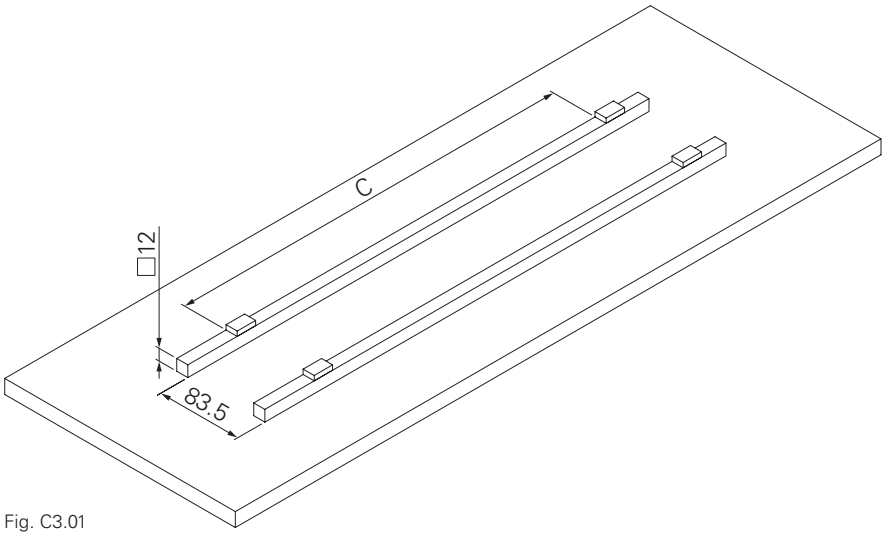


Fig. C3.01

Assembling the finishing platform

Components

25 Formwork Girder GT 24
26 Screw DIN 603-M08 x 200-4.8-ga-Nu
27 Planking
31 Toe Board 15 x 3
34 Angle Connector 90 x 90 x 65 mm
36 Wood Screw 5 x 20 SK-TX25 HSX
40 Finishing Platform Beam RCS 122
60 Plank 12 x 4

Preparing the Finishing Platform Beams RCS 122

1. Place the Finishing Platform Beams RCS 122 (**40**) against the stops and align them. (Fig. C3.02)

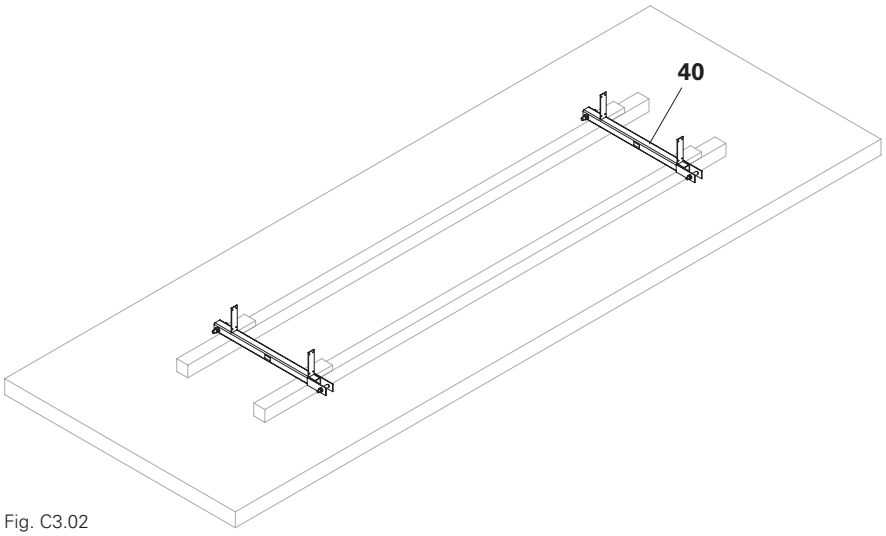


Fig. C3.02

C3 Pre-assembly of the finishing platform

Aligning and installing the platform beams

1. Pre-drill the Formwork Girders GT 24 (**25**) with Ø 8 mm holes according to the drilling plan.
2. Position the Formwork Girders GT 24 (**25**) on the Finishing Platform Beams RCS 122 (**40**) according to the plan and align them.

(Fig. C3.03)

3. Fit Formwork Girders GT 24 (**25**) with Screws DIN 603-M08 x 200-4.8-ga-Nu (**26**) and Washers ISO 7094-08-100HV-ga (**68**) onto the Finishing Platform Beams RCS 122 (**40**).

(Fig. C3.03a + C3.03b)

- Double beam arrangement:
  - 2x Formwork Girder GT 24 or 2x Girder VT 20.
  - Screw DIN 603-M08 x 200-4.8-ga-Nu.
- Single beam arrangement:
  - Formwork Girder GT 24 or Girder VT 20.
  - Screw DIN 603 M8 x 100 MU.

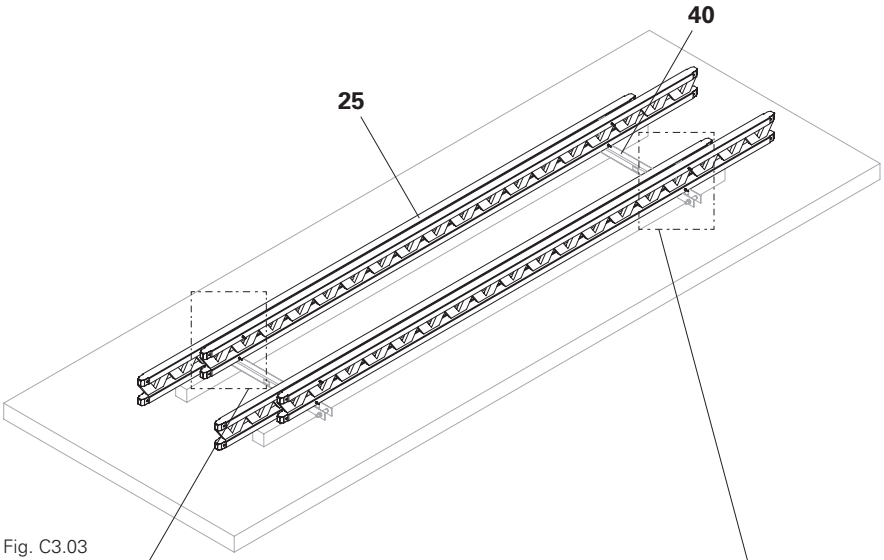


Fig. C3.03

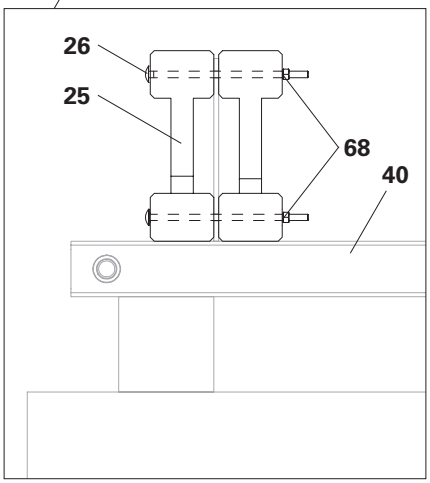


Fig. C3.03a

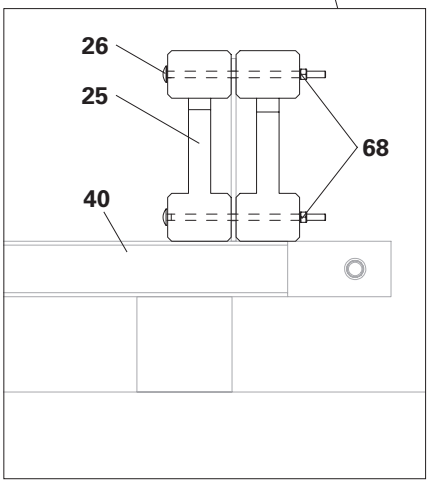


Fig. C3.03b

Installing the platform decking

Assembly

1. Saw the planking (**27**) to the specified length.
2. Screw down the planking (**27**) at each intersection with a Formwork Girder GT 24 (**25**) using 2x Spax Screw TX 30 6 x 80 (**35**).
3. Screw plank 12 x 4 (**60**) onto the planking (**27**) using Spax Screw TX 30 6 x 80 (**35**).

(Fig. C3.04 + C3.04a)

4. Saw the recesses out of the planking.

(Fig. C3.04)

Secure cantilevered planking with plank 12 x 4 (**60**).

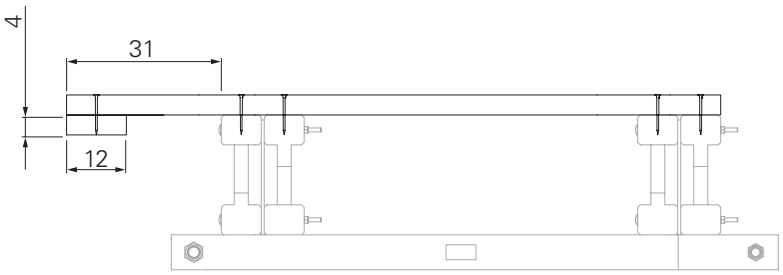


Fig. C3.04a

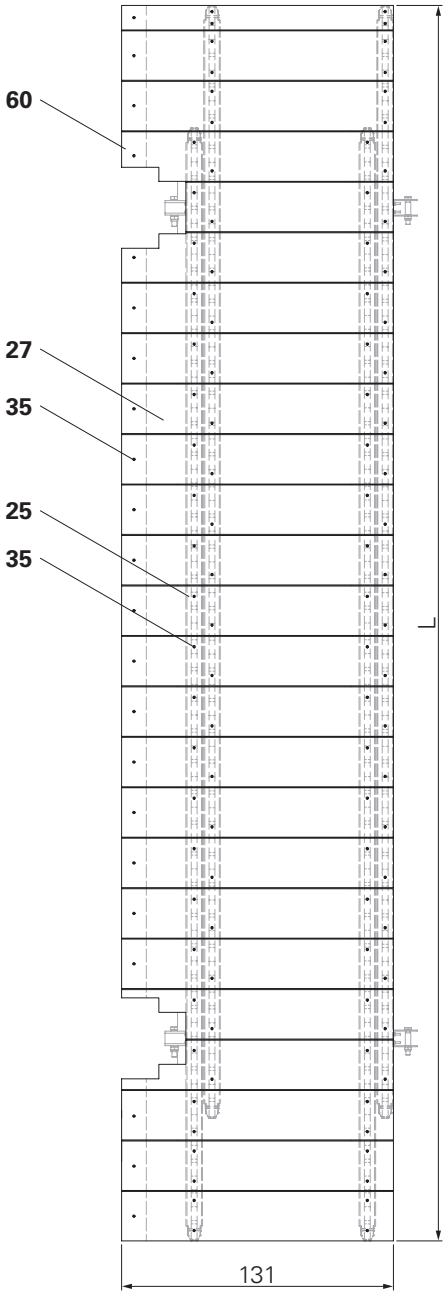


Fig. C3.04

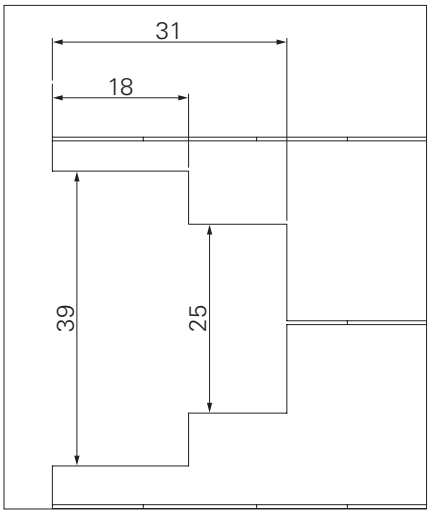


Fig. C3.04b

Fitting the toe board

1. Fix toe board 15 x 3 (**31**) with Angle Connector 90 x 90 x 65 mm (**34**) at a distance of approx. 1 m with Wood-Screw 6 x 40 SK-TX30 HPI (**33**) to the deck (**27**).

(Fig. C3.05 + C3.05a)

Applying the cover tape

1. Cut Cover Tape LPS 0.20 x 10 m (**94**) to the planned length.
2. Fix Cover Tape LPS 0.20 x 10 m (**94**) to the deck (**27**) with Wood-Screw 6 x 40 SK-TX30 HPI (**33**) and Washer ISO 7094-08-100HV-ga (**68**).

(Fig. C3.05 + C3.05a)

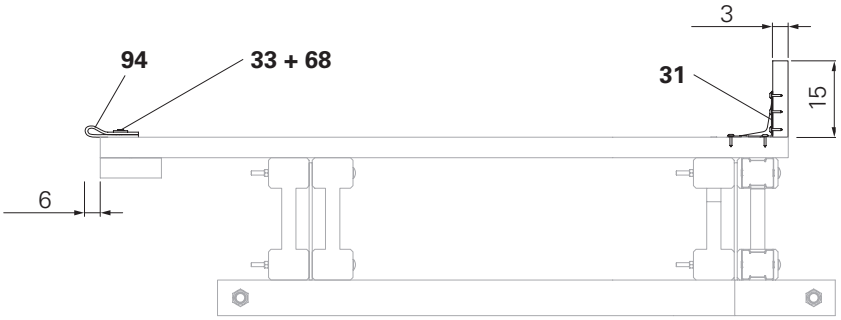


Fig. C3.05a

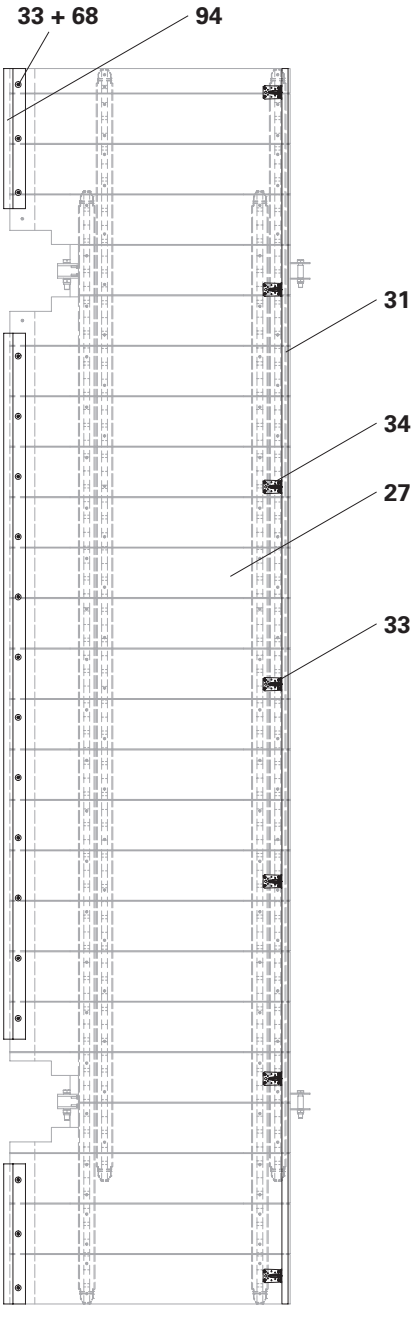


Fig. C3.05

Preparing for assembly

- A flat assembly surface is required for installation.
- Secure intermediate posts with temporary supports to prevent tipping over.
- Aligned and calibrated stops simplify the process of pre-assembling the work platform in a quick and precise manner. (Fig. C4.01)

Fitting the assembly surface

1. Fit sufficiently long squared timber 12 x 12 cm onto the assembly surface, spaced out so they are 75 cm apart.
2. Fit stops onto the 12 x 12 cm squared timber at the distance "C".

(Fig. C4.01)

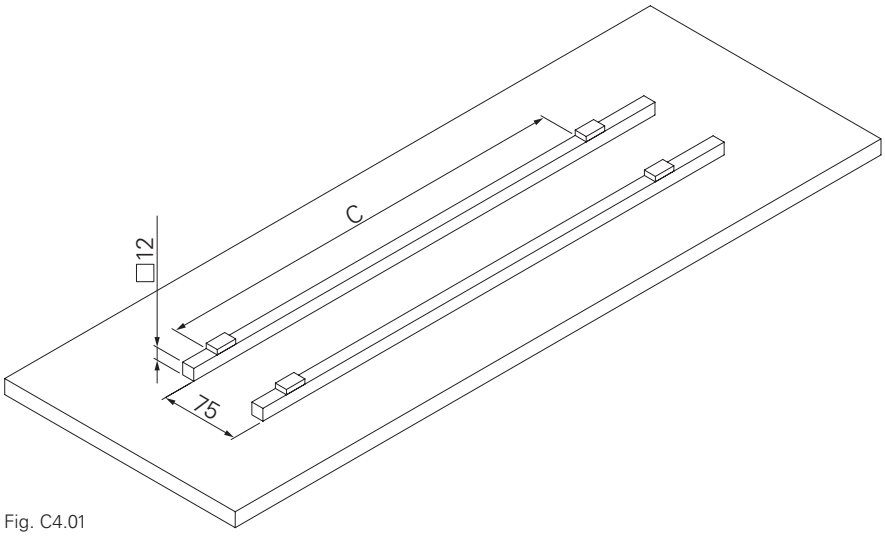


Fig. C4.01

Mounting the concreting platform

Components

25 Formwork Girder GT 24
27 Planking
31 Toe Board 15 x 3
34 Angle Connector 90 x 90 x 65 mm
38 Clamp A64 DIN 3570-M12-ga
41 Platform Beam RCS/SRU 113
42 Hex-Wood-Screw 8 x 60 DIN 571 ga
43 Guardrail Post RCS 184
44 Hex-Nut ISO 4032-M12-8-ga
60 Plank 12 x 4

Preparing the Platform Beam RCS/ SRU 113

1. Place the Platform Beams RCS/ SRU 113 (**41**) against the stops and align them. (Fig. C4.02)
2. Loosen the fixing bracket (**41.1**) on the platform beam, move it into a vertical position and screw it down again.

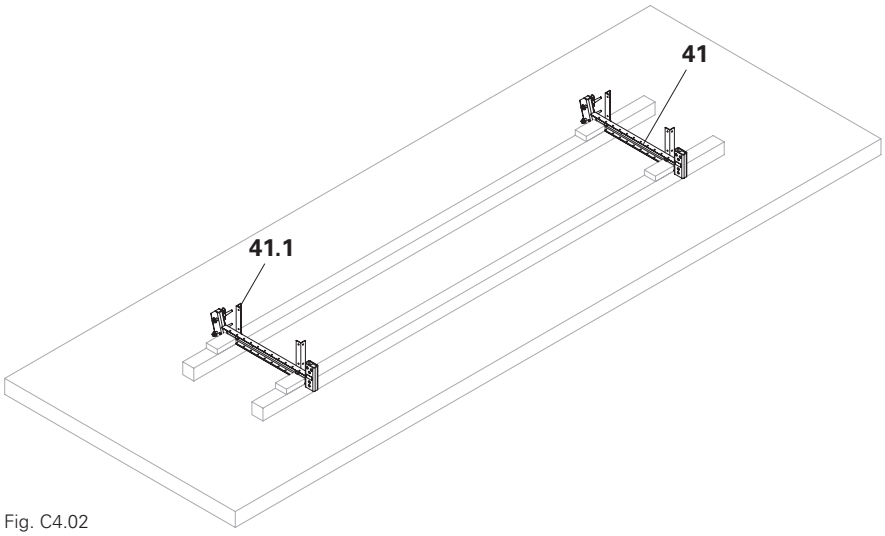


Fig. C4.02

Aligning and installing the platform beams

1. Position the Formwork Girders GT 24 (**25**) on the Platform Beams RCS/ SRU 113 (**41**) according to the plan and align them. (Fig. C4.03)
2. Fix the Formwork Girders GT 24 (**25**) to the Platform Beams RCS/SRU 113 (**41**) with Hex-Wood-Screws 8 x 60 DIN 571 ga (**42**). (Fig. C4.03a + C4.03b)

If necessary, to extend the platform beam, screw plank pieces L x 4 x 24 cm to the sides of the platform beam with at least 8 Spax screws TX 6 x 80 according to the plan.

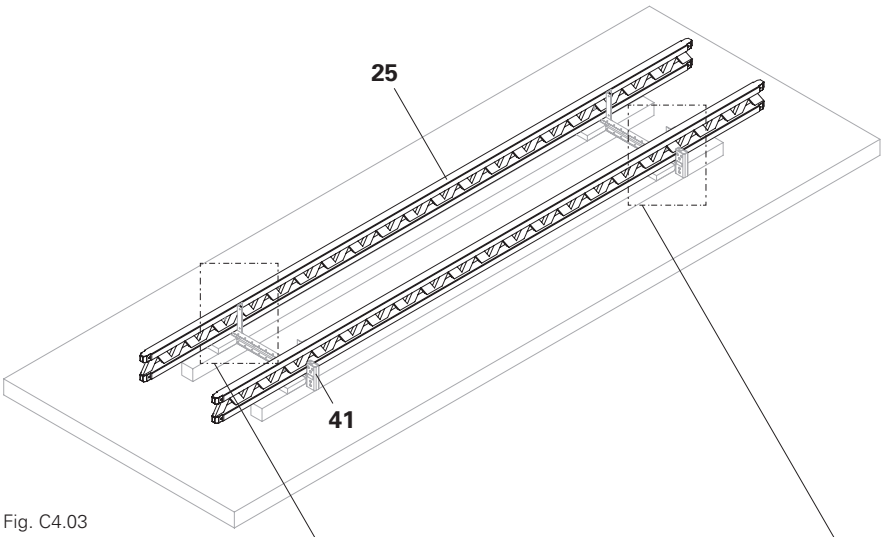


Fig. C4.03

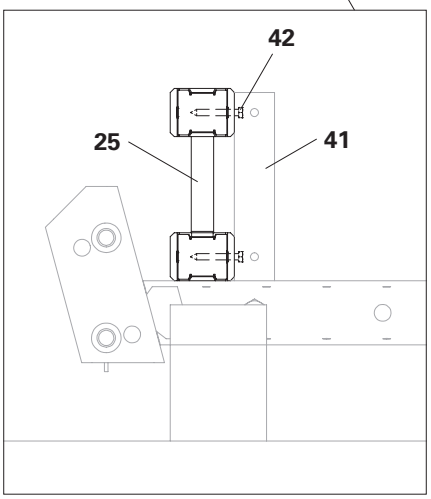


Fig. C4.03a

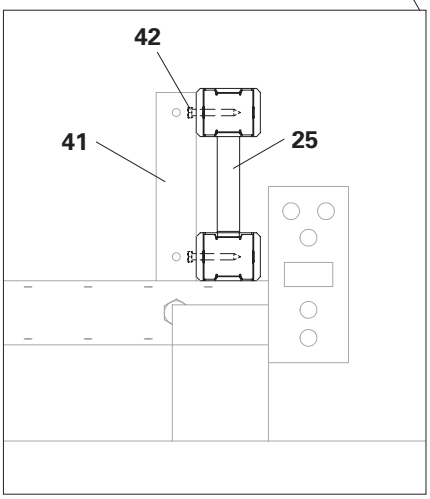


Fig. C4.03b

Installing the platform decking

- Secure cantilevered planking with plank 12 x 4 (**60**).
- For the hatch recess, a slit must be sawn in the plank so that the hatch can be inserted. Do not saw into the Formwork Girder GT 24 in the process!

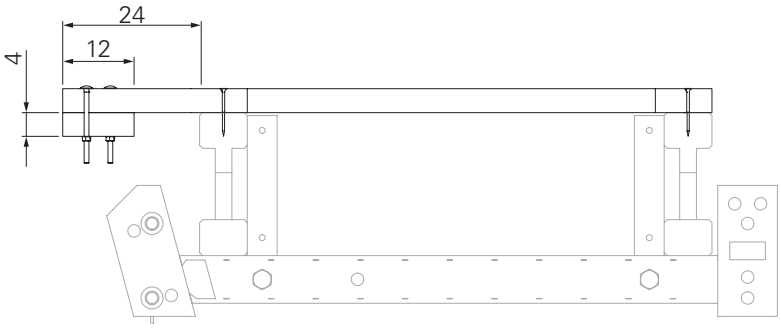


Fig. C4.04a

Assembly

1. Saw the planking (**27**) to the specified length.
2. Screw down the planking (**27**) at each intersection with a Formwork Girder GT 24 (**25**) using 2x Spax Screw TX 30 6 x 80 (**35**).
3. Screw plank 12 x 4 (**60**) to the planking (**27**) with Spax Screw TX 30 6 x 80 (**35**) and Screw DIN 603 M8 x 125 MU (**61**) in order to provide support at the hatch opening. (Fig. C4.04 + C4.04a)
4. Saw the recesses and hatch opening out of the planking. (Fig. C4.04)

- Make sure that the planking on the outside has a minimum width of 10 cm!
- For assemblies with other platform beams, the dimensions of these must be adapted.

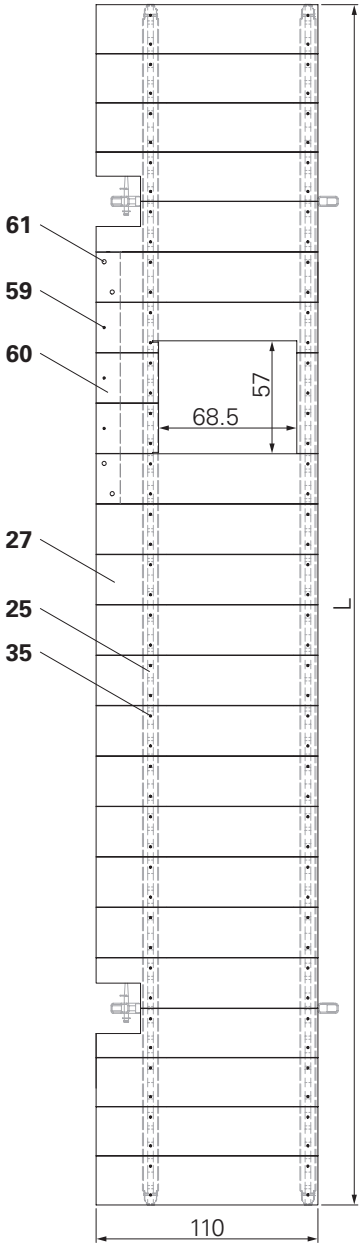


Fig. C4.04

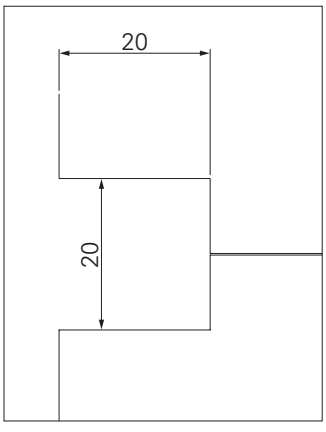


Fig. C4.04b

Fitting the hatch

1. Place Hatch-2 RCS 55x60 foldable (**32**) in the prepared recess. The opened hatch cover points towards the wall side.
2. Screw the frame of the hatch and the planking together with approx. 16 x Wood-Screw 6 x 40 SK-TX30 HPI (**33a**).

(Fig. C4.05 + C4.05a)

Fitting the toe board

1. Fix toe board 15 x 3 (**31**) with Angle Connector 90 x 90 x 65 mm (**34**) at a distance of approx. 1 m with Wood-Screw 6 x 40 SK-TX30 HPI (**33b**) to the deck (**27**).

(Fig. C4.05 + C4.05a)

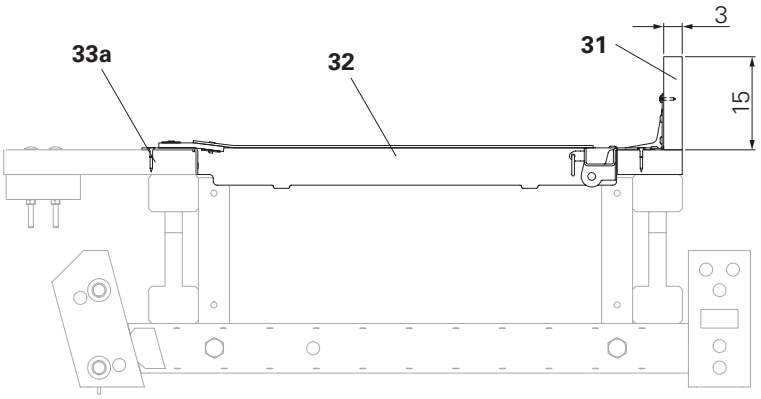


Fig. C4.05a

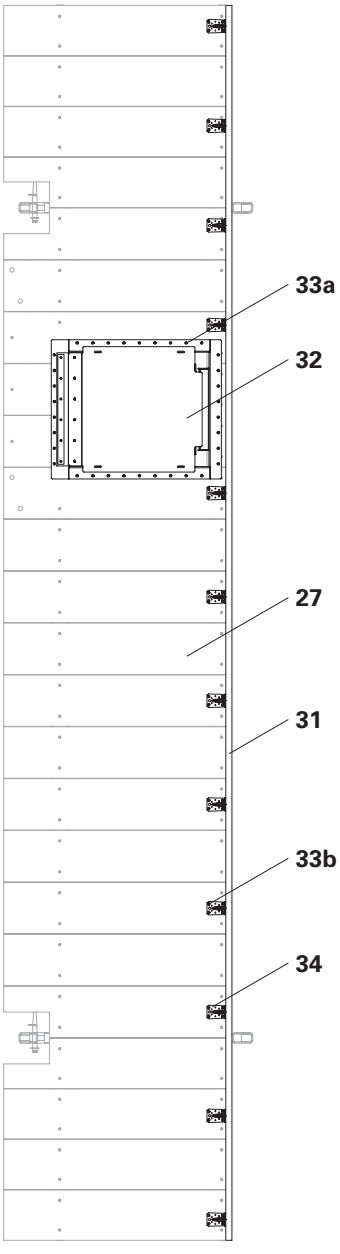


Fig. C4.05

C4 Pre-assembly of concreting platform

Mounting the guardrail post

1. Remove 2x bolt ISO 4017 M20 x 100-8.8 (**43.1**) and 2x Hex-Nut ISO 7040-M20-8-ga (**43.2**) from Guardrail Post RCS 184 (**43**).
2. Place Guardrail Post RCS 184 (**43**) on Platform Beam RCS/SRU 113 (**41**).
3. Fit the guardrail post onto Platform Beam RCS/SRU 113 (**41**) with 2x bolt ISO 4017 M20 x 100-8.8 (**43.1**) and 2x Hex-Nut ISO 7040-M20-8-ga (**43.2**).

(Fig. C4.06 + C4.06a)

Standard configuration with scaffolding tubes or handrail boards:
Fixing holes in the guardrail post point inwards.

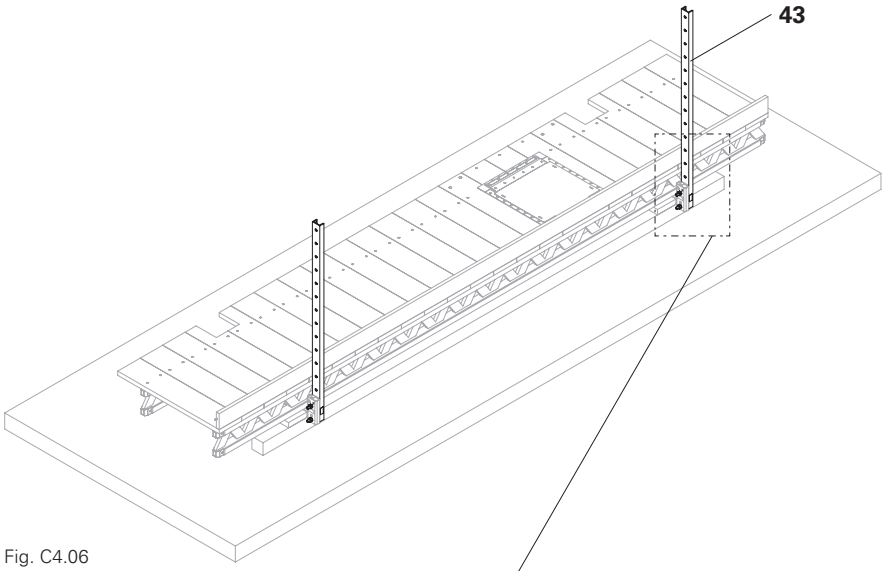


Fig. C4.06

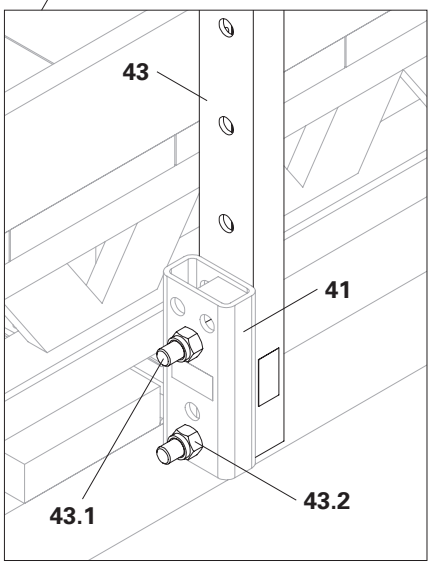


Fig. C4.06a

C4 Pre-assembly of concreting platform

Installing the scaffolding tubes

1. Insert Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39**) into Clamps A64 DIN 3570-M12-ga (**38**) and screw them into place on the inside with Hex-Nut ISO 4032-M12-8-ga (**44**), e.g. onto Guardrail Post RCS 226 (**37**).

(Fig. C4.07 + C4.07a)

- In the case of cantilevers with d > 1.10 m at the ends and spans of c > 4.40 m in the centre of the bay, connect or support at least 4 scaffolding tubes Ø 48.3 x 3.2 in order to prevent overloading.
- Refer to the project-specific plan for the length of the scaffolding tubes.
- Refer to the project-specific plan for the assembly process for the following lateral protection components:
  - Handrail boards,
  - Scaffolding tube Ø 60.3,
  - Scaffolding tubes with net enclosure,
  - Squared timber with full enclosure.

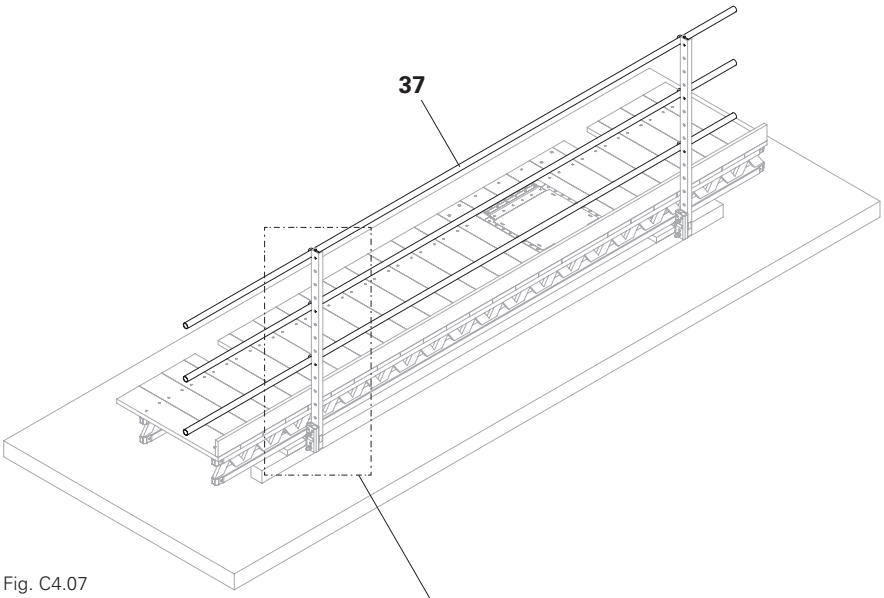


Fig. C4.07

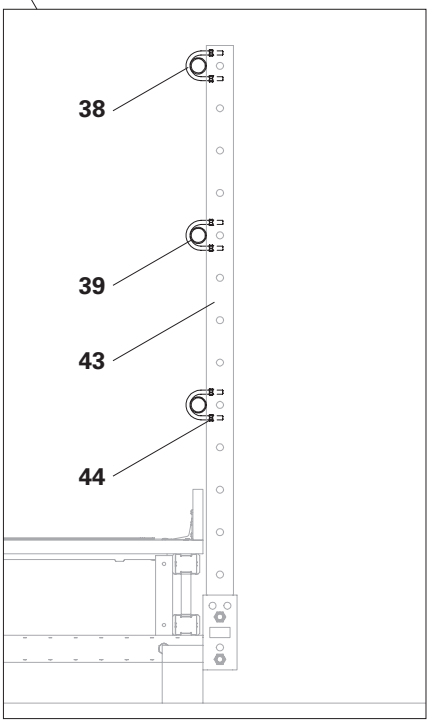


Fig. C4.07a

VARIO GT 24 Girder-Wall Formwork

- A flat assembly surface is required for installation.
- Secure intermediate posts with temporary supports to prevent tipping over.
- The wall formwork is assembled in accordance with the relevant Instructions for Assembly and Use and the project-specific formwork plans.
- Observe the instructions for use for the load-carrying equipment used.

Preparing for assembly

1. Lay out squared timber 12 x 12 at a distance of approx. c – 50 from each other.
2. Place the VARIO GT 24 Girder-Wall Formwork (**54**) on the squared timber using the crane and suitable attachment points.

(Fig. C5.01)

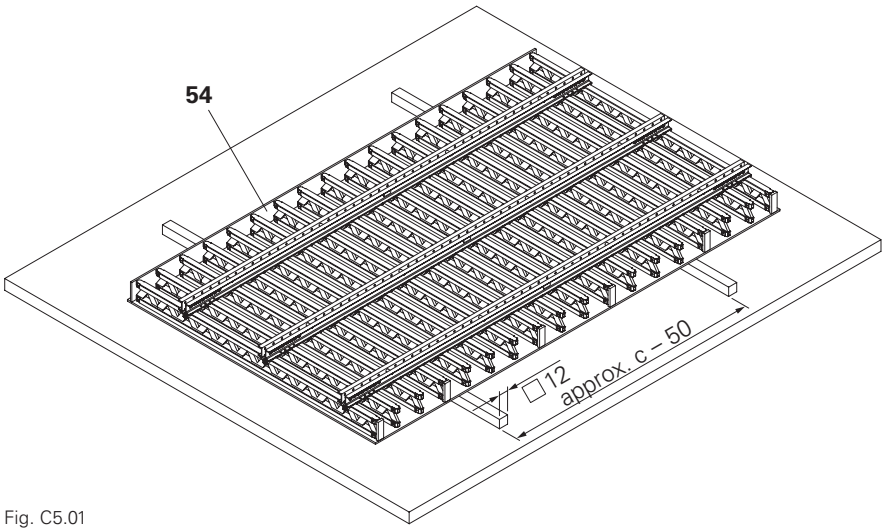


Fig. C5.01

Fitting the strongback

1. Position the Steel Walers Universal SRU U120 as strongbacks (**55**) on the walers (**54.1/54.2**) of the formwork (**54**) at a distance of c from each other and with a projection of h_w according to the planning details. (Fig. C5.02)
2. Clamp the strongbacks (**55**) to the upper walers (**54.1**) with Waler Fixations U100 – U120 (**56**). (Fig. C5.02a + C5.02b)
3. Pull the Adjusting Unit Carriage RCS (**57**) over the lower end of the strongback (**55**).
4. Fit the upper section of the Adjusting Unit Carriage RCS (**57**) into the strongback (**55**) with bolt Ø 20 x 140 (**57.1**) and cotter pin 4/1 (**57.2**).
5. Spindle out the lower section of the adjusting screw AF 30 (**57.3**) until it makes contact with the lower waler (**54.2**). (Fig. C5.02c)
   → The waler is now resting on the stringers of the height adjustment unit on both sides.
   (Fig. C5.02a + C5.02c)
6. Fine-tune the strongback (**55**), e.g. position and orientation.
7. Clamp the Waler Fixation U100 – U120 (**56**).

Maximum formwork weight per Adjusting Unit Carriage RCS: 1,200 kg.

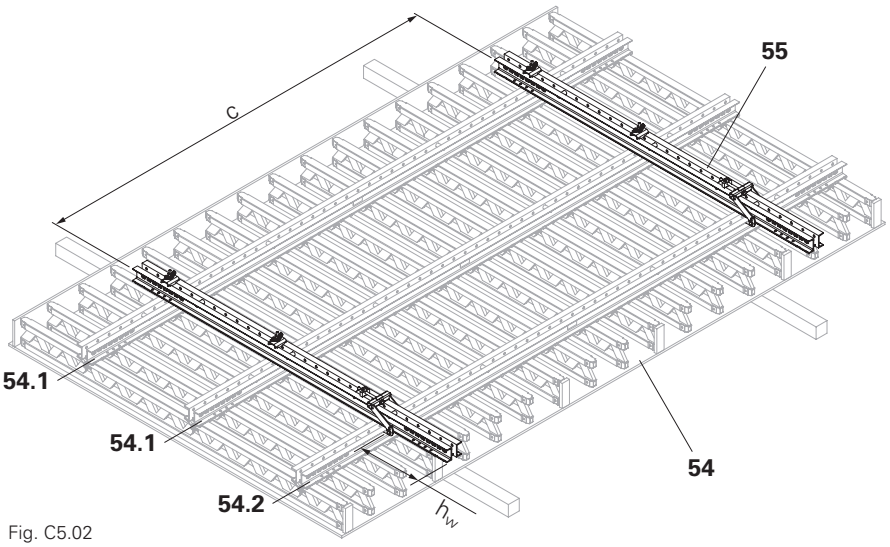


Fig. C5.02

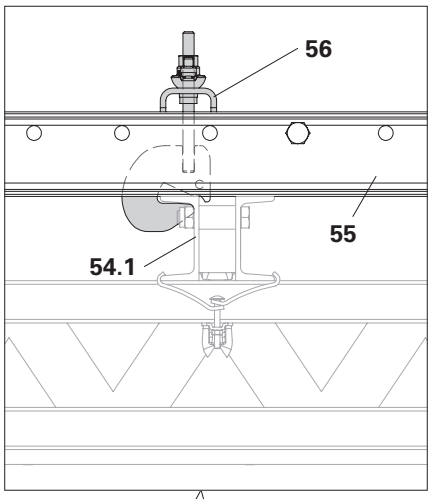


Fig. C5.02b

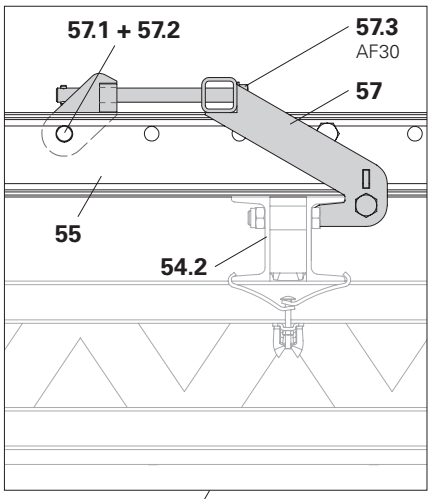


Fig. C5.02c

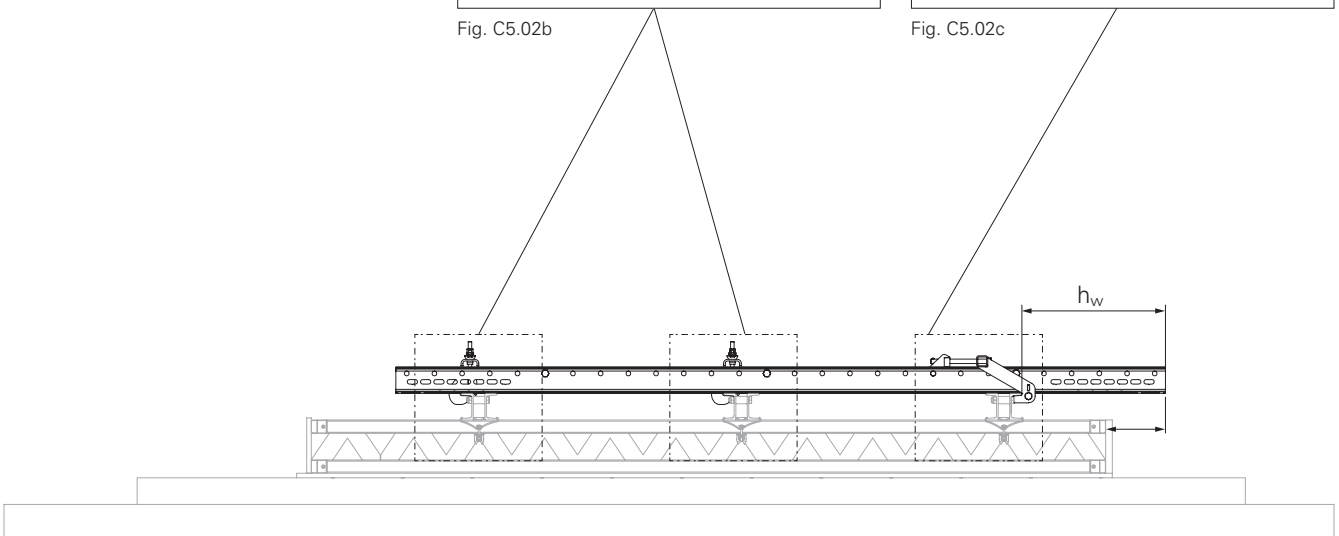


Fig. C5.02a

Mounting the concreting platform

1. Attach the concreting platform and platform beam (Formwork Girder GT 24 (**25**)) to the crane with the aid of lifting straps and transport them to the formwork (not shown).
2. Mount the concreting platform with 2x Fitting Pin Ø21 x 120 mm (**41.1**) and cotter pin 5/1 (**41.2**) to the strongback (Steel Waler Universal SRU U120 (**55**)).

(Fig. C5.03 + C5.03a + C5.03b)

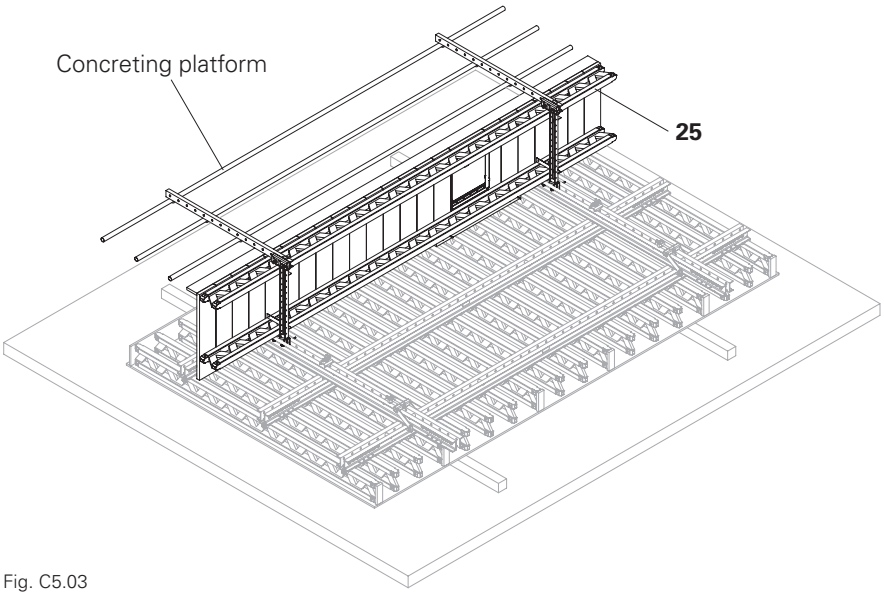


Fig. C5.03

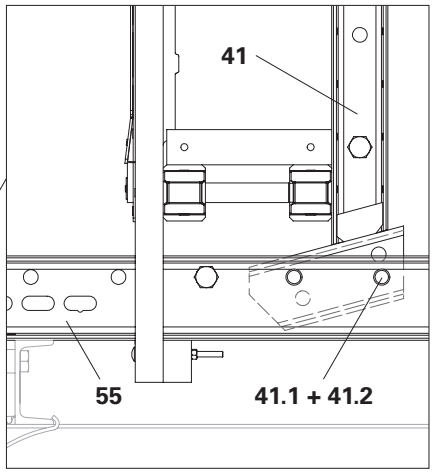


Fig. C5.03b

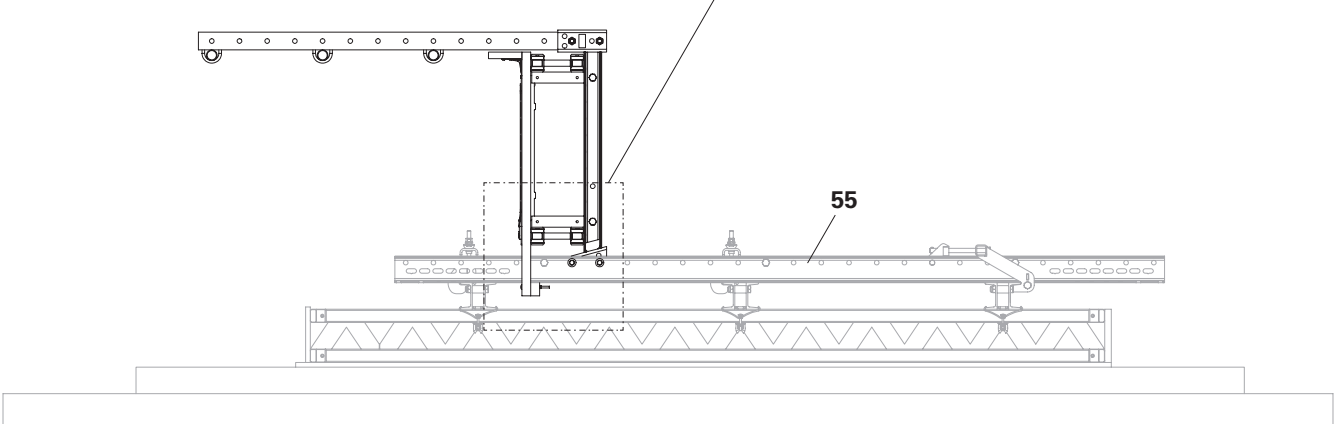


Fig. C5.03a

- The components for the ladder support are detailed in the assembly plans.
- Ladder assembly, see Section "C6 Pre-assembly of the ladders" on page 83.

Installing ladder access

1. Fit the ladder support (**58**) onto the Formwork Girders GT 24 of the VARIO GT 24 Girder Wall Formwork with the designated screws.
2. Attach the pre-assembled ladders.
3. Attach the Ladder Base 30 ga (**48**) to the ladder support (**58**).

(Fig. C5.04)

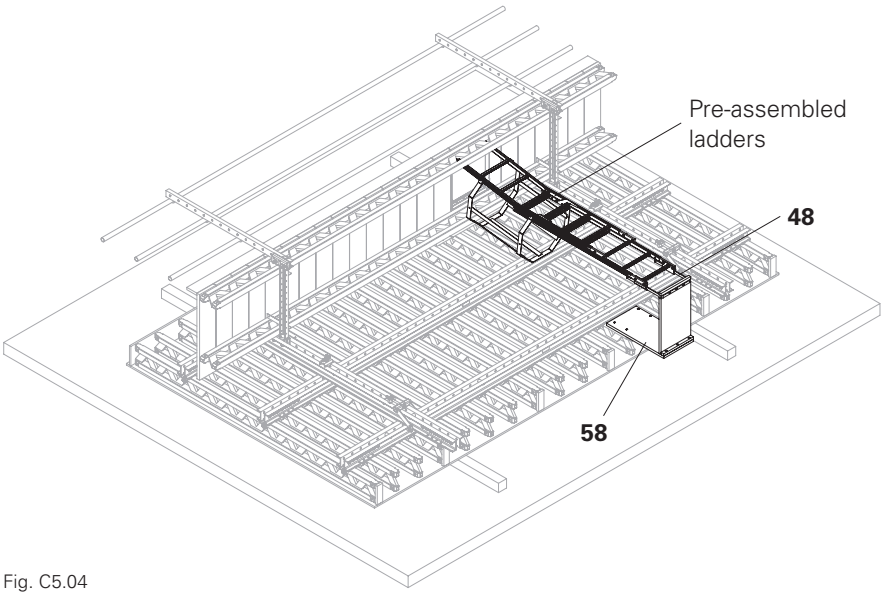


Fig. C5.04

MAXIMO/TRIO Panel Formwork

Formwork Waler CB 150 variant

Components

55 Steel Waler Universal SRU U120
56 Waler Fixation U100 – U120
57 Adjusting Unit Carriage RCS
71 Fitting Pin Ø21 x 120 mm
72 Cotter pin 4/1
83 MAXIMO Wall Formwork
102 Strongback Adapter RCS/SRU
103 Formwork Waler CB 150
104 Clamp Adapter MX TR-SRU
105 Formwork stop L x 12 x 3
106 Bolt ISO 4014 16 x 120-8.8
107 Nut ISO 7040 M16-8
108 Washer ISO 7094-16-100HV-ga

- Project-specific planning and dimensioning is required!
- The Formwork Waler CB 150 (**103**) is attached to the Clamp Adapter MX TR-SRU (**104**) as standard by means of the Tie Rod DW 15 (**104.3**) and Wingnut Counterplate DW 15 (**104.4**). (Fig. C5.07a)
  If the Wingnut Counterplate DW 15 (**104.4**) collides with the strongback, the Clamp Adapter MX TR-SRU (**104**) can be fitted using fitting pins Ø21 x 120 mm (**71**) and cotter pins 4/1 (**72**). (Fig. C5.07b)

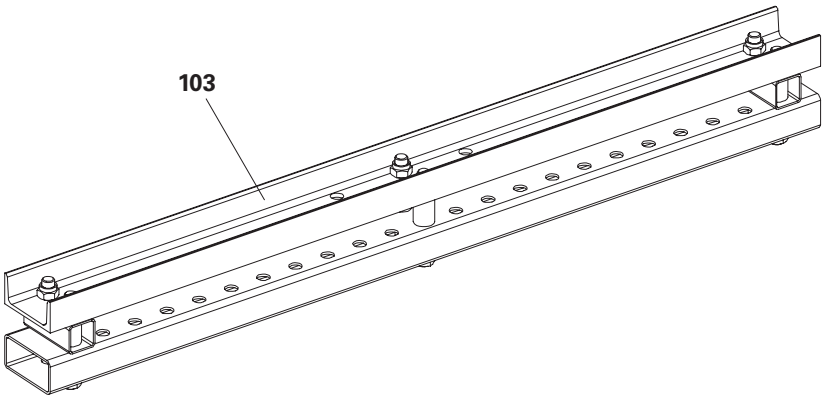


Fig. C5.06

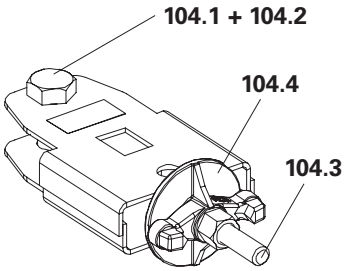


Fig. C5.07a

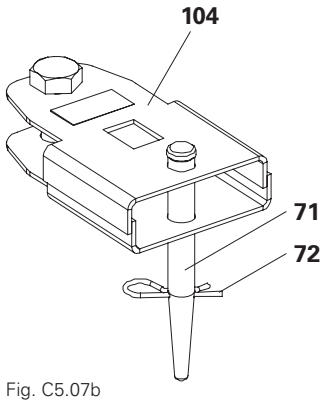


Fig. C5.07b

Refer to the Instructions for Assembly and Use for the formwork system used. Project-specific planning and dimensioning is required.

Assembly

1. Fit 2x Clamp Adapter MX TR-SRU (**104**) onto the formwork using bolts ISO 4014 M24 x 80-8.8 (**104.1**) and Hex-Nuts ISO 4032-M24-8-ga (**102.2**).
2. Place the Upper Formwork Walers CB 150 (**103**) on the Clamp Adapters MX TR-SRU (**104**) as specified. Place the Lower Formwork Walers CB 150 on the Clamp Adapters MX TR-SRU (**104**) with the U-section facing downwards. (Fig. C5.08a)
3. Fit the Formwork Stop L x 12 x 3 (**105**) onto the MAXIMO Formwork (**83**) with bolt ISO 4014 16 x 120-8.8 (**106**), Nut ISO 7040 M16-8 (**107**) and Washer ISO 7094-16-100HV-ga (**108**). (Fig. C5.08 + C5.08a)

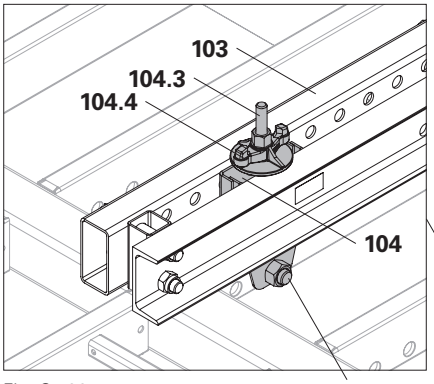


Fig. C5.08a

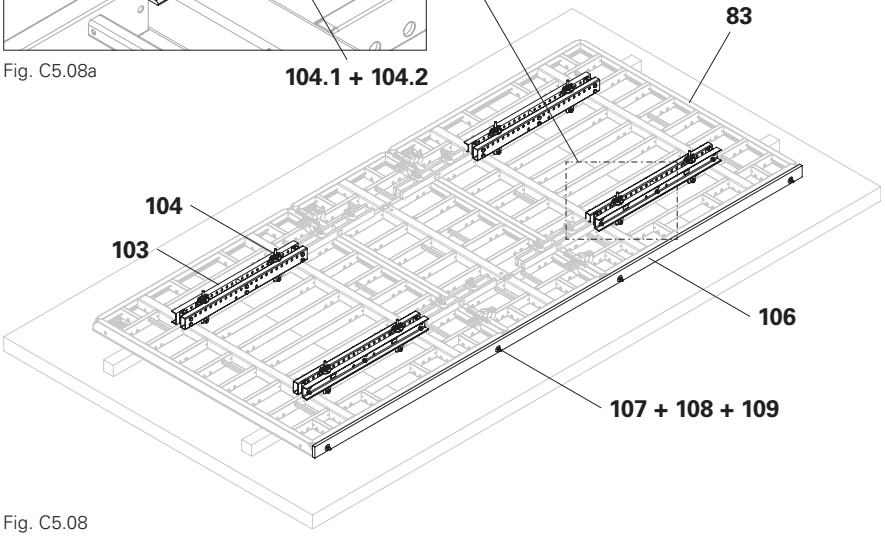


Fig. C5.08

Fitting the strongback

1. Position the strongback (**55**) on the Formwork Walers CB 150 (**103**) at the distance c as specified in the plan. (Fig. C5.09)
2. Pull the Adjusting Unit Carriage RCS (**57**) over the lower end of the Strongback Steel Waler Universal SRU U120 (**55**).
3. Fit the Strongback Adapter RCS/SRU (**102**) with 2x filler pins 20 x 120 (**71**) and cotter pin 4/1 (**72**) on the Strongback Steel Waler Universal SRU U120 (**55**) and position the strongback (**55**) using the h_W planning dimension.
4. Fit the strongbacks (**55**) onto the Upper Formwork Walers CB 150 (**103**) with Waler Fixations U100 – U120 (**56**). (Fig. C5.09a + C5.09b)
5. Fit the upper section of the Adjusting Unit Carriage RCS (**57**) into the Strongback Steel Waler Universal SRU U120 (**55**) with bolt Ø 20 x 140 (**57.1**) and cotter pin 4/1 (**57.2**).
6. Spindle out the lower section of the adjusting screw AF 30 (**57.3**) until it makes contact with the Formwork Waler CB 150 (**103**). (Fig. C1.09b)
   → The Formwork Waler CB 150 (**103**) is now resting on the stringers of the height adjustment unit on both sides. (Fig. C5.09b)
7. Fine-tune the Strongback Steel Waler Universal SRU U120 (**55**), e.g. position and orientation.
8. Clamp the Waler Fixation U100 – U120 (**56**).

Maximum formwork weight per Adjusting Unit Carriage RCS: 1,200 kg.

Check the position of the strongback (**55**) on the formwork element.

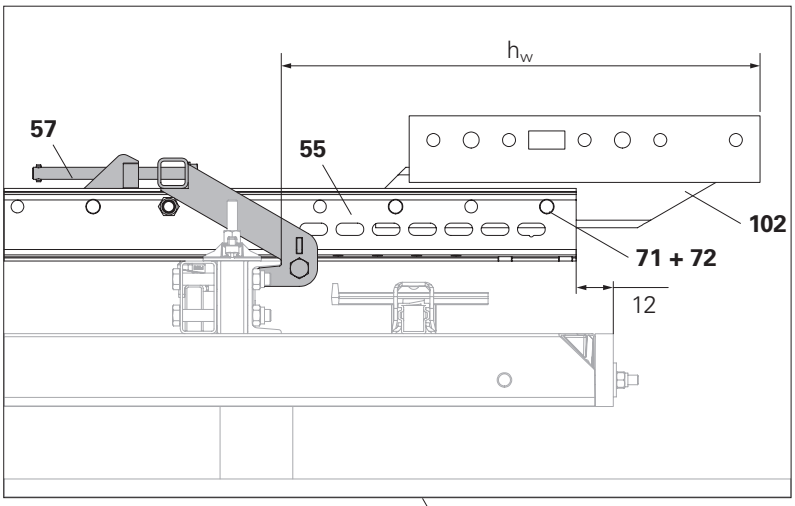


Fig. C5.09b

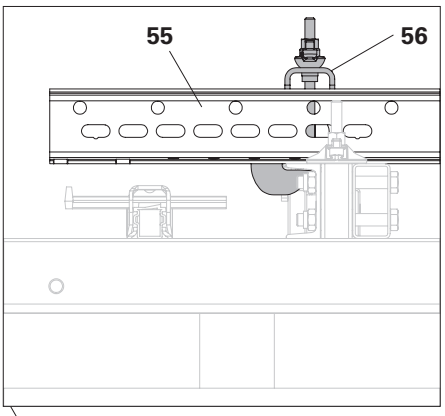


Fig. C5.09a

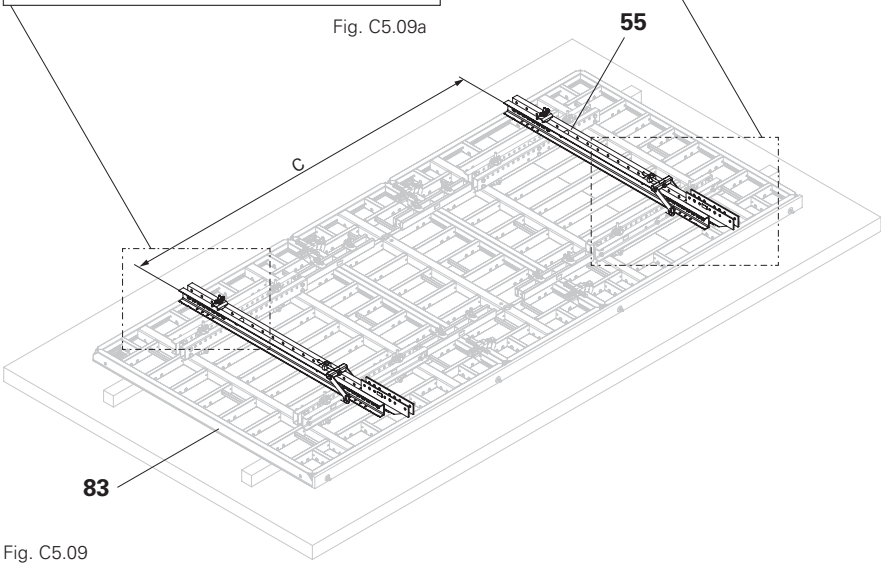


Fig. C5.09

Ladders

Do not use the ladder until it is securely attached at the top and bottom, and the ladder cage has been mounted.
The required ladder elements are to be sourced on a project-specific basis.

Components

32 Hatch-2 RCS 55 x 60 foldable
33 Wood-Screw 6 x 40 SK-TX30 HPI
45 Ladder 180/6
46 Ladder 220/6
47 End Ladder 180/2 cpl
48 Ladder Base 30 ga
49 Ladder Safety Cage 75
50 Ladder Safety Cage 150
51 Screw ISO 4017-M12 x 040-8.8-ga
52 Hex-Nut ISO 7040-M12-8-ga
53 Ladder hook

Pre-assembling the ladder

- **Permanently mounted ladder:**

1. Push top ladder 220/6 (**46**) with the connector (**46.1**) as far as possible into the lower ladder 180/6 (**45**).
2. Secure the bottom ladder to the connector using the bolts M12 x 40 and nuts (**46.2**) which have been provided.
3. Secure the Ladder Base 30 ga (**48**) to the connector (**45.1**) of the lower ladder in the same way using 4x Screw ISO 4017-M12 x 040-8.8-ga (**51**) and nuts ISO 4840 M12-8 (**52**).

(Fig. C6.01)

- **Lower ladder as hook-in ladder:**

1. Secure ladder hook (**53**) to the 2 bottom holes on the ladder rail using the bolts M12 x 25 and nuts (**53.1**) which have been provided.
2. Screw down the Ladder Base 30 ga (**48**), see above.
3. Attach hook-in ladder to the top ladder.

(Fig. C6.02 + C6.03)

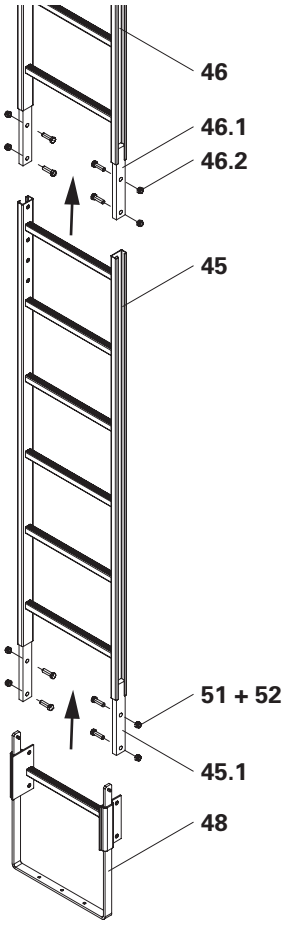


Fig. C6.01

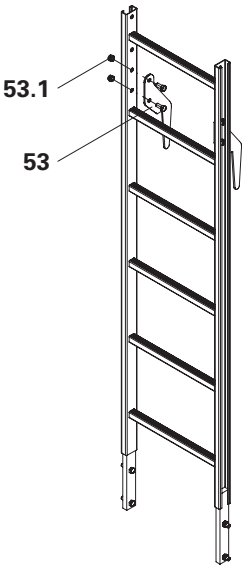


Fig. C6.02

The rungs of the hook-in ladder and top ladder must be positioned at the same height.
If they are not, screw the ladder hooks into the correct drill holes.

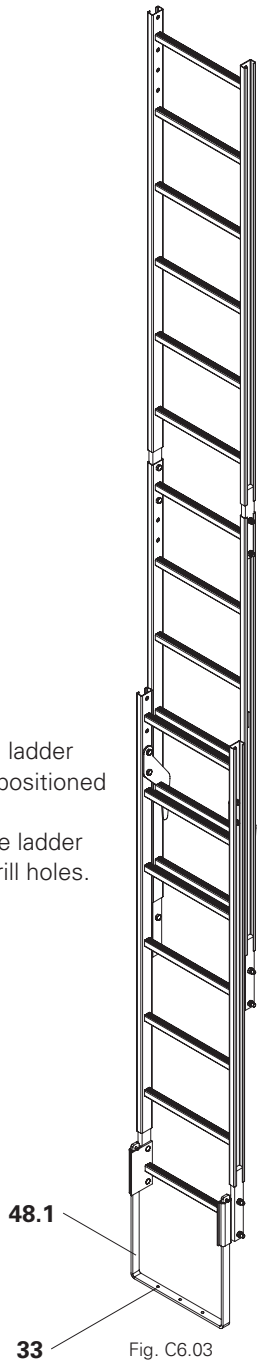


Fig. C6.03

C6 Pre-assembly of the ladders

Ladder assembly on the structure, see Section "Installing the ladders and ladder cage" on page 112.

Fitting the ladder on the hatch

1. Lift the ladder using the crane. Lower the ladder through the hinged 55 x 60-2 hatch (**32**).
2. Secure the ladder to the Hatch-2 RCS 55 x 60 foldable (**32**) from above with 2x Screw ISO 4017-M12 x 040-8.8-ga (**51**) and 2x Hex-Nut ISO 7040-M12-8-ga (**52**) and remove the crane lifting gear.

(Fig. C6.04)

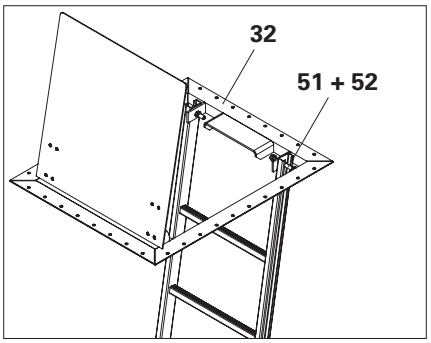


Fig. C6.04

Attaching the End Ladder 180/2 cpl

1. Open the hatch cover (**32.1**) and remove the cotter pin.
2. Lift the pre-assembled ladders (**45 + 47**) with the crane into the Hatch-2 RCS 55 x 60 foldable (**32**) and lower them down so that the top rung of the ladders rests in the U-section of the hatch.
3. Secure the ladders with cotter pins to prevent them from falling out.

(Fig. C6.05)

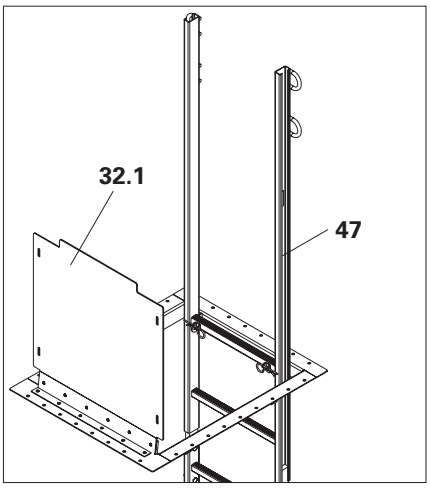


Fig. C6.05

Fixing the ladder base

1. Pull out the clamp (**48.1**) of the Ladder Base 30 ga (**48**) as far as the platform decking. Secure clamp to the planking using 3x Wood-Screw 6 x 40 SK-TX30 HPI screws (**33**).

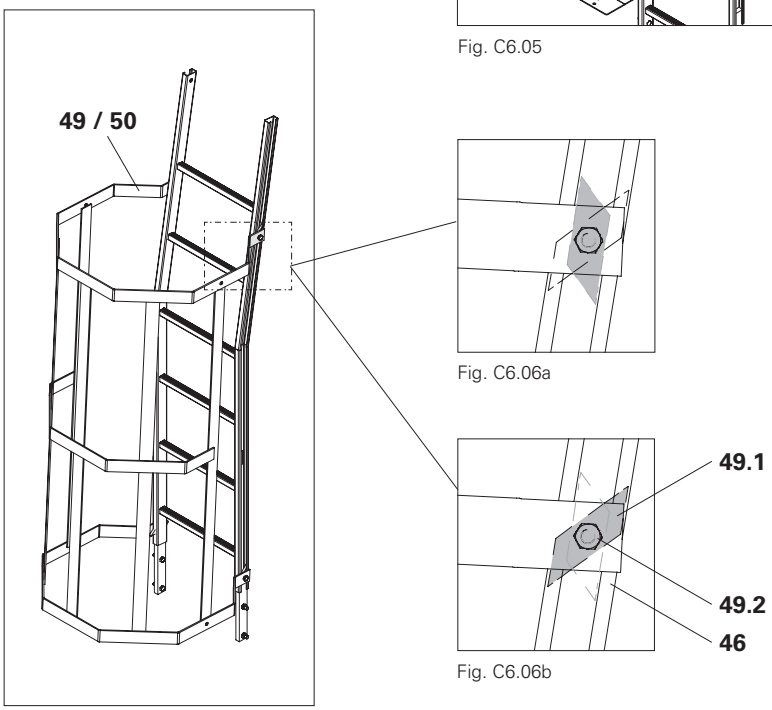


Fig. C6.06

Fig. C6.06a

Fig. C6.06b

Installing the ladder cage

- The distance from the platform decking to the ladder cage ranges from 2.2 m to 3.0 m.
- The opening between two ladder cages must not exceed 50 cm.

1. Move the ladder cage (**49/50**) into position using a rope and hold it there.
2. Slightly loosen screw M12 x 25 (**49.2**) of the clamping plate (**49.1**), insert the clamping plate into the ladder rail (**46**), turn and tighten screw.

(Fig. C6.06)

- Install the ladder in accordance with local standards and regulations.
- Maximum inclination $\alpha < 15°$.

- A flat assembly surface is required for installation.
- Secure intermediate posts with temporary supports to prevent tipping over.
- Refer to the assembly plans for the cylinder position.

Dismantling cylinder fixation and diagonal connection

1. Dismantle cylinder fixation (**10.1**) with diagonal connection (**10.2a**) and upper diagonal connection (**10.2b**) of the Driving Rail RCS C MAX (**10**).
2. Set aside bolt ISO 4014 M16 x 60-8.8 (**10.10**), bolt ISO 4014 M16 x 90-8.8 (**10.9**), Nuts ISO 7040 M16-8 (**10.14**), Washers ISO 7089 200 HV, A 16 (**10.12**) and wedge washers DIN 434 18 (**10.13**).

(Fig. C7.01)

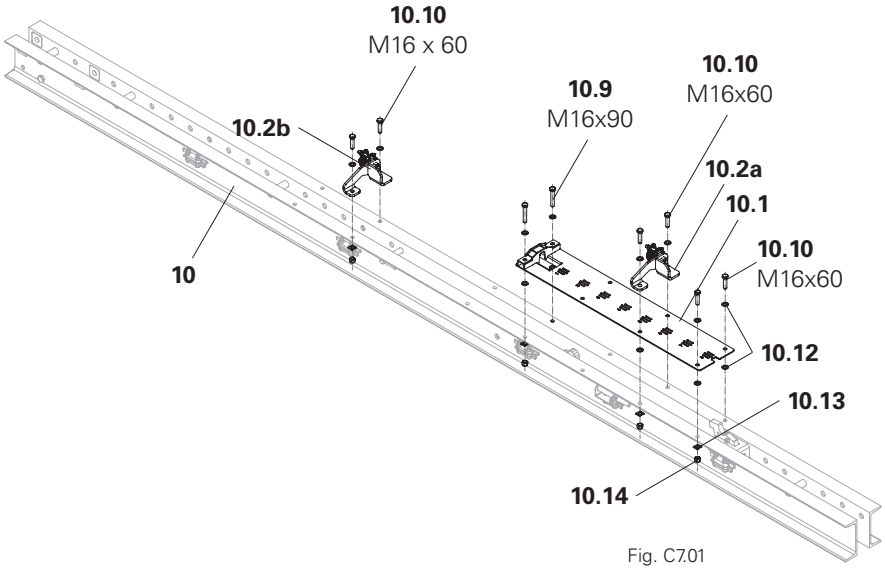


Fig. C7.01

To attach the climbing cylinder, select the bolt position that is suitable for the section height h_B. (Fig. C7.03a + C7.03b)

Mounting the climbing cylinder

1. Insert Climbing Cylinder RCS MAX 75 (**1**) with rod side at approx. 55° angle into the climbing connection (**10.3**) of the climbing saw (**10.6**).
   → Hose connections point out of the driving rail.
2. Fold down the Climbing Cylinder RCS MAX 75 (**1**).
3. Mount the Climbing Cylinder RCS MAX 75 (**1**) with bolt Ø 25 x 200 SCS (**10.4**) and cotter pin 5/1 (**10.5**).
4. Fit Fitting Pin Ø26 x 120 mm (**10.8**) and cotter pin 5/1 (**10.5**) into the parking position.

(Fig. C7.02 + C7.02a)

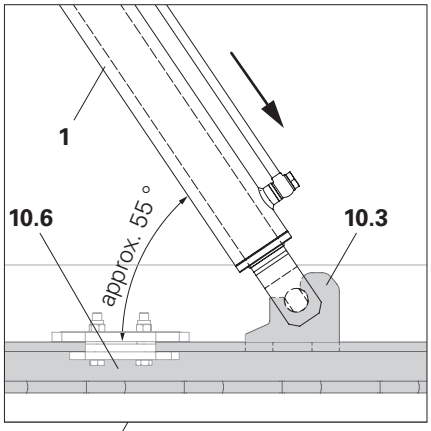


Fig. C7.02a

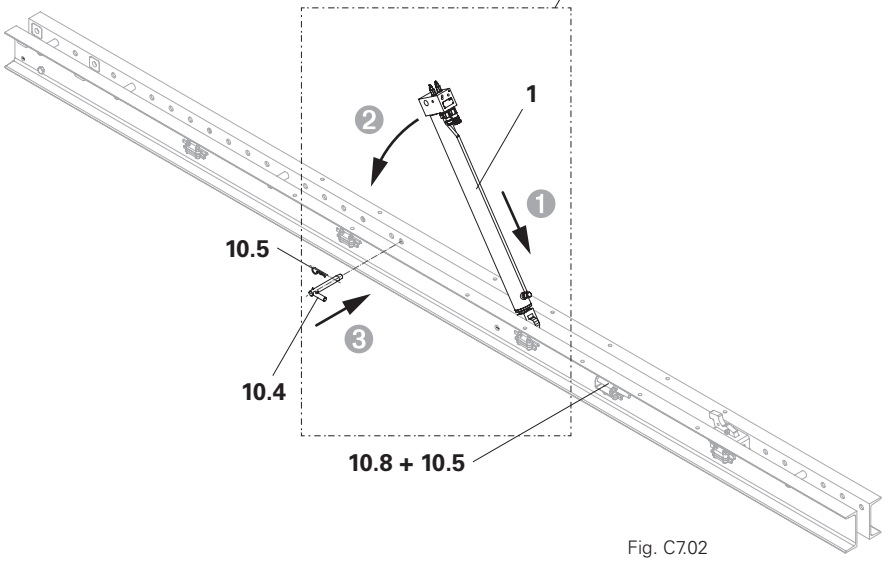


Fig. C7.02

Refer to the assembly plans for the assembly positions of the diagonal connections and the bolt position of the climbing cylinder.

Assembling the cylinder fixation and diagonal connection

1. Reassemble cylinder fixation (**10.1**) and diagonal connections (**10.2a + 10.2b**) with designated bolt ISO 4014 M16 x 60-8.8 (**10.10**), bolt ISO 4014 M16 x 90-8.8 (**10.9**), nuts ISO 7040 M16-8 (**10.14**), washers ISO 7089 200 HV, A 16 (**10.12**) and wedge washers DIN 434 18 (**10.13**).
   → Climbing Cylinder RCS MAX 75 (**1**) is now installed.

(Fig. C7.03)

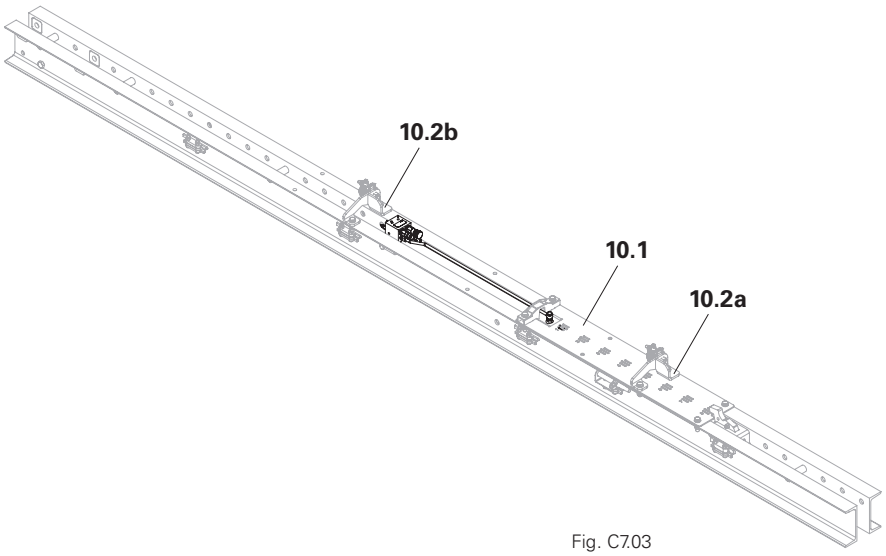


Fig. C7.03

C7 Pre-assembly of Driving Rail RCS C MAX

- Remove the Fitting Pin Ø26 x 120 mm (**10.8**) and cotter pin 5/1 (**10.5**) in the climbing saw before installing the Climbing Cylinder RCS MAX 75 (**1**) and move the climbing saw into position.
- Insert Fitting Pin Ø26 x 120 mm (**10.8**) on the driving rail into the parking position.

Bolt position 1

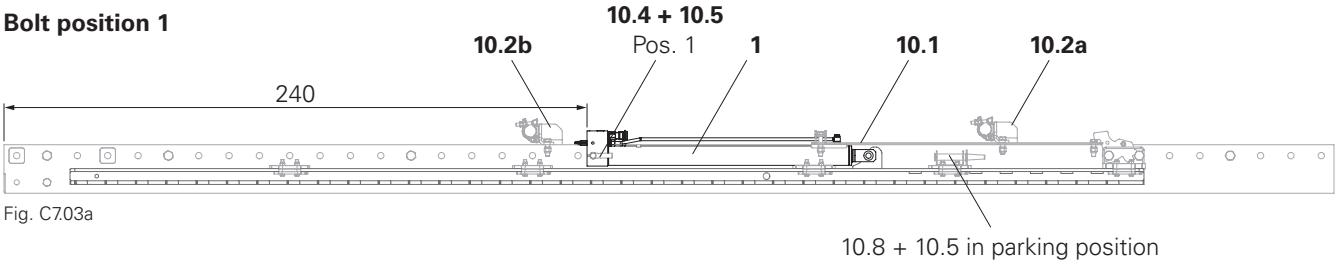


Fig. C7.03a

Bolt position 2

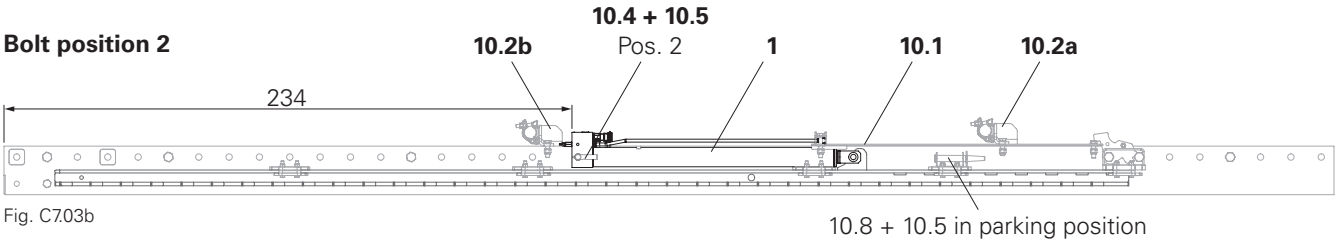


Fig. C7.03b

Note

Grease the sliding surfaces of the driving rail before installation.
See assembly instructions for "RCS MAX Driving Rail and Hydraulics".

Danger

Incorrect installation of the climbing rail! The system can collapse, causing serious injury or even death.

⇒ Make sure that the climbing rails are installed in the correct position (two holes on the underside are free). (Fig. C8.01a)

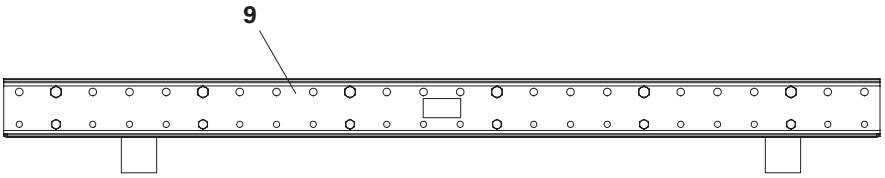


Fig. C8.01a

- A flat assembly surface is required for installation.

Components

9 Climbing Rails RCS
39 Scaff. Tube 48.3 x 3.2 mm lfm ga
84 Pin Set RCS MAX
85 Scaffold Tube Adaptor Ø48 RCS
86 Swivel Coupling AF 48/48

Preparing for assembly

1. Place the squared timber on the assembly surface.
2. Place the Climbing Rails RCS (**9**) on the squared timber at a distance of c from each other.

(Fig. C8.01)

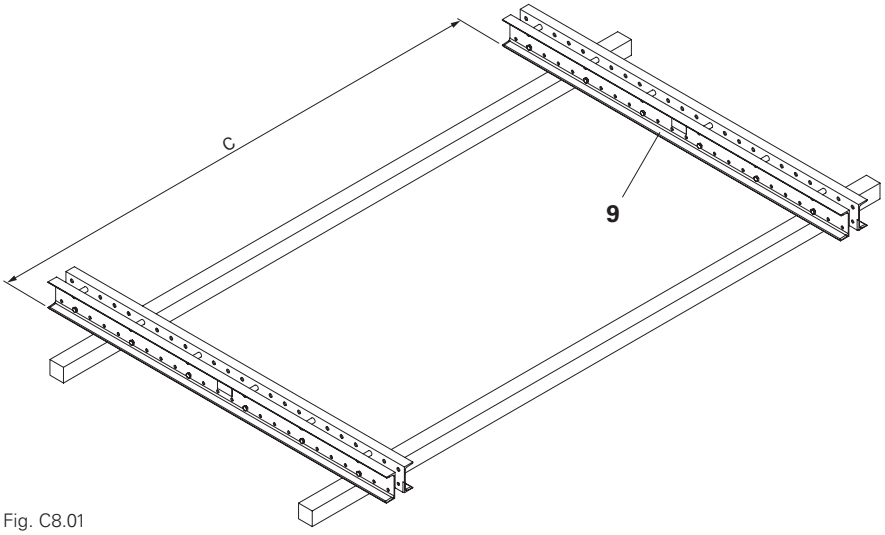


Fig. C8.01

C8 Pre-assembly of Climbing Rails RCS

Mount Pin Sets RCS MAX in the middle (leave one hole free) between each spacer M20-82 (**9.1**).
Result: Locking positions in the climbing rail in 25 cm increments.
A Pin Set RCS MAX is mounted in the lower hole in the Climbing Rail RCS only when the unit is completed, otherwise the Climbing Rail Hinge RCS will collide with the Pin Set RCS MAX.

Fitting the Pin Sets RCS MAX

1. Remove the Pin Set RCS MAX (**84**).
2. Place the sleeve (**84.2**) in the specified position in the Climbing Rail RCS (**9**).
3. Insert bolt 20 x 140 (**84.1**) through Climbing Rail RCS (**9**) and sleeve (**84.2**).
4. Secure bolt 20 x 140 (**84.1**) with cotter pin 4/1 (**84.3**).

(Fig. C8.02 + C8.02a + C8.02b)

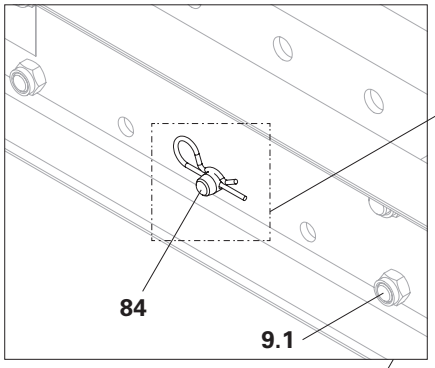


Fig. C8.02a

Section

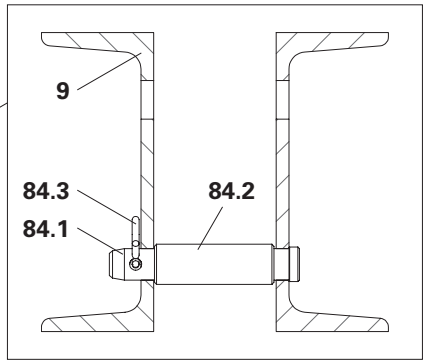


Fig. C8.02b

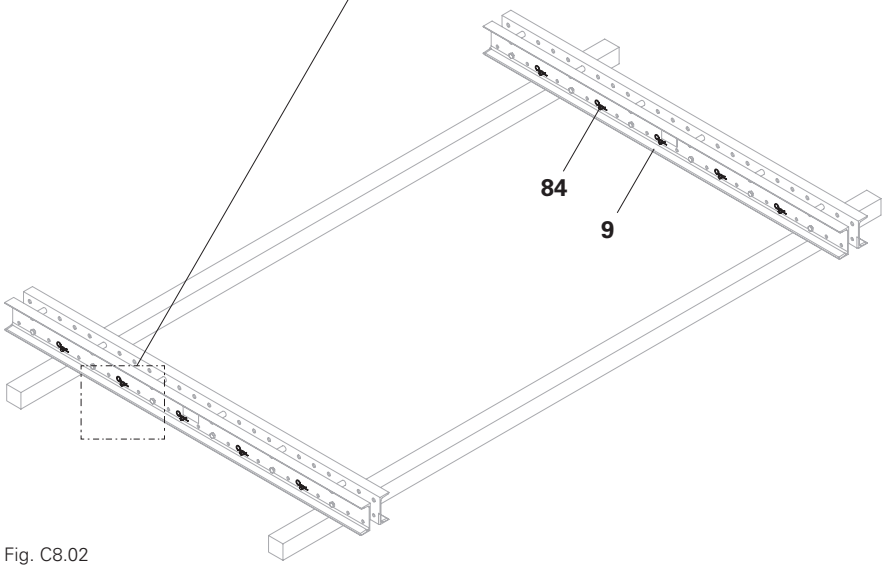


Fig. C8.02

Climbing Rail RCS	Number of Pin Sets RCS MAX
248	4 + 1
298	5 + 1
349	6 + 1
398	7 + 1

Tab. C8.01

C8 Pre-assembly of Climbing Rails RCS

- Refer to the project-specific plan for the position and direction of the Scaffold Tube Adaptors Ø48 RCS.
- Refer to the project-specific plan for the length of the scaffolding tubes.

Assemble scaffold tube holders and Climbing Rail Hinges RCS

1. Remove bolt Ø 25 x 180 (**85.2**) with cotter pin 4/1 (**85.3**).
2. Place Scaffold Tube Adaptor Ø48 RCS (**85**) in the specified position in the Climbing Rail RCS (**9**).
3. Fit Scaffold Tube Adaptor Ø48 RCS (**85**) with bolt Ø 25 x 180 (**85.2**) and cotter pin 4/1 (**85.3**).

(Fig. C8.03 + C8.03a)

4. Remove the bolt Ø 25 x 180 (**23.1**) and cotter pin 4/1 (**23.2**) from Climbing Rail Hinge RCS (**23**).
5. Insert the Climbing Rail Hinge RCS (**23**) into the Climbing Rail RCS (**9**).
6. Fit Climbing Rail Hinge RCS (**23**) with bolt Ø 25 x 180 (**23.1**) and cotter pin 4/1 (**23.2**).

(Fig. C8.03 + C8.03b)

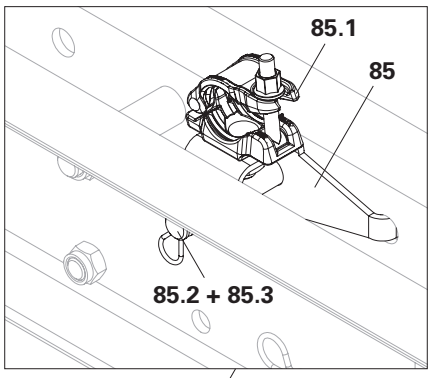


Fig. C8.03a

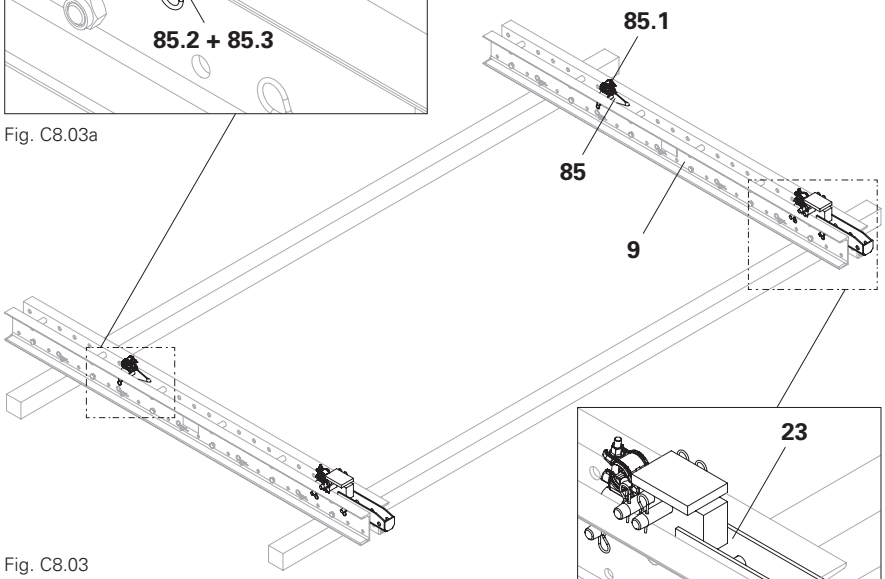


Fig. C8.03

Fig. C8.03b

- The Climbing Rail Hinge RCS folds down during erection and acts as a console bracket pressure point during initial use.
- If the Climbing Rail Hinge RCS is not used as a pressure point, another bolt 25 x 180 (**23.1**) must be mounted from the parking position to the lower hole with cotter pin 4/1 (**23.2**).

Installing the scaffolding tubes

1. Open the Screw-On Couplings-2 HT B Ø 48-M20 (**85.1**).
2. Insert Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39a**).
3. Close the Screw-On Couplings-2 HT B Ø 48-M20 (**85.1**).
4. Fit Swivel Couplings AF 48/48 (**86**) and open upper couplings.
5. Insert Scaff. Tube 48.3 x 3.2 mm lfm ga (**39b**).
6. Close Swivel Couplings AF 48/48 (**86**).

(Fig. C8.04 + C8.04a)

Note

Grease the sliding surfaces of the climbing rail before installation.
See assembly instructions for "RCS MAX Driving Rail and Hydraulics".

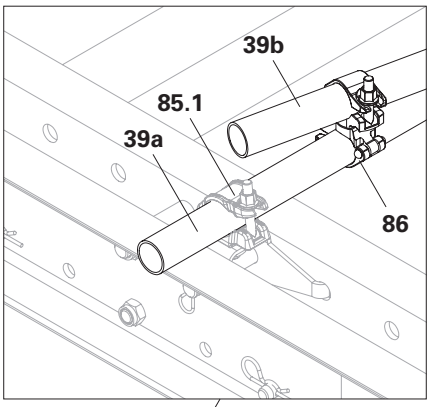


Fig. C8.04a

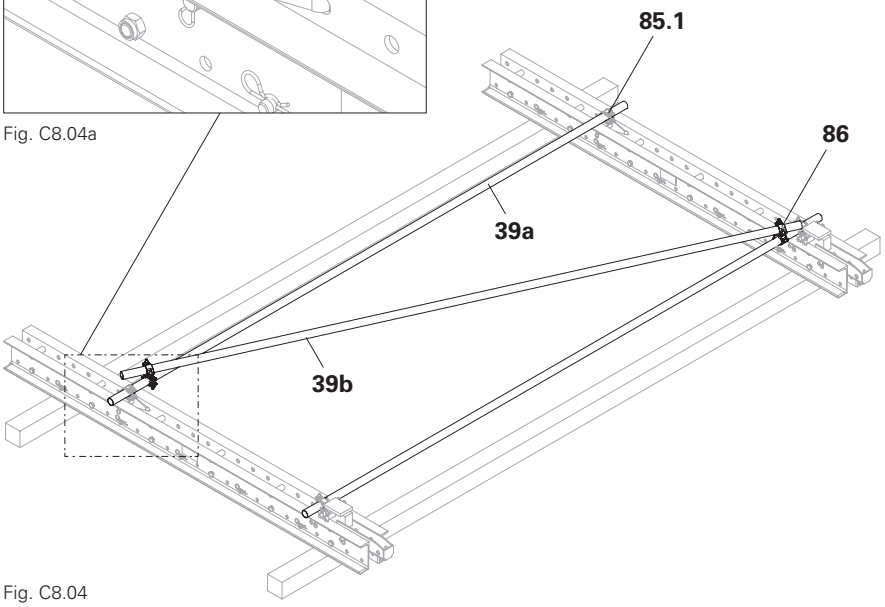


Fig. C8.04

General information

Warning

- Risk of falling from unsecured building edges!
  A fall can result in serious injury or even death.
  ⇒ Install guardrails.
  ⇒ Use personal protective equipment to prevent falling from a height (PPE).
- During assembly on the construction site, components may fall to the ground and hit people below!
  This can lead to serious injuries or even death.
  ⇒ Cordon off danger zones beneath the working areas.
  ⇒ Release the climbing unit from the crane lifting gear only when all climbing shoes are closed and the climbing unit is resting fully on the climbing shoes.

- Before attaching the RCS units, check the structure for sufficient load-bearing capacity.
- A pre-requisite of the assembly procedure is that work is carried out for a short period of time with the load attached in a positive-locking manner.

Preparing for attachment

Components

5	Climbing Shoe RCS
6	Wall Shoe RCS
76	Climbing Cone-2 DW 20 M30 ga
81	Screw ISO 4017-M30 x 070-8.8-ga

Preparation

1. Fit Wall Shoes RCS (**6**) onto the Climbing Cones-2 DW 20 M30 ga (**76**). Fasten with Screw ISO 4017-M30 x 070-8.8-ga (**81**).
2. Fit the Climbing Shoes RCS (**5**) onto the Wall Shoes RCS (**6**) with the corresponding locking pin and cotter pin.

(Fig. D1.01 + D1.01a)

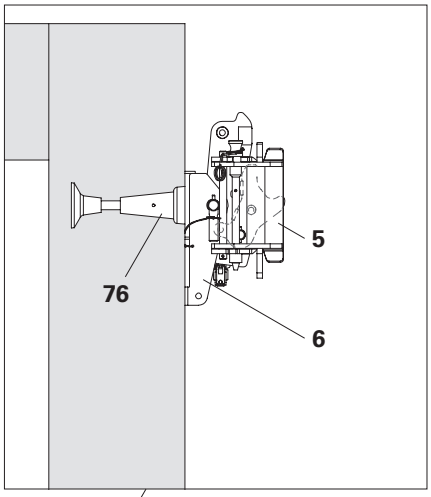


Fig. D1.01a

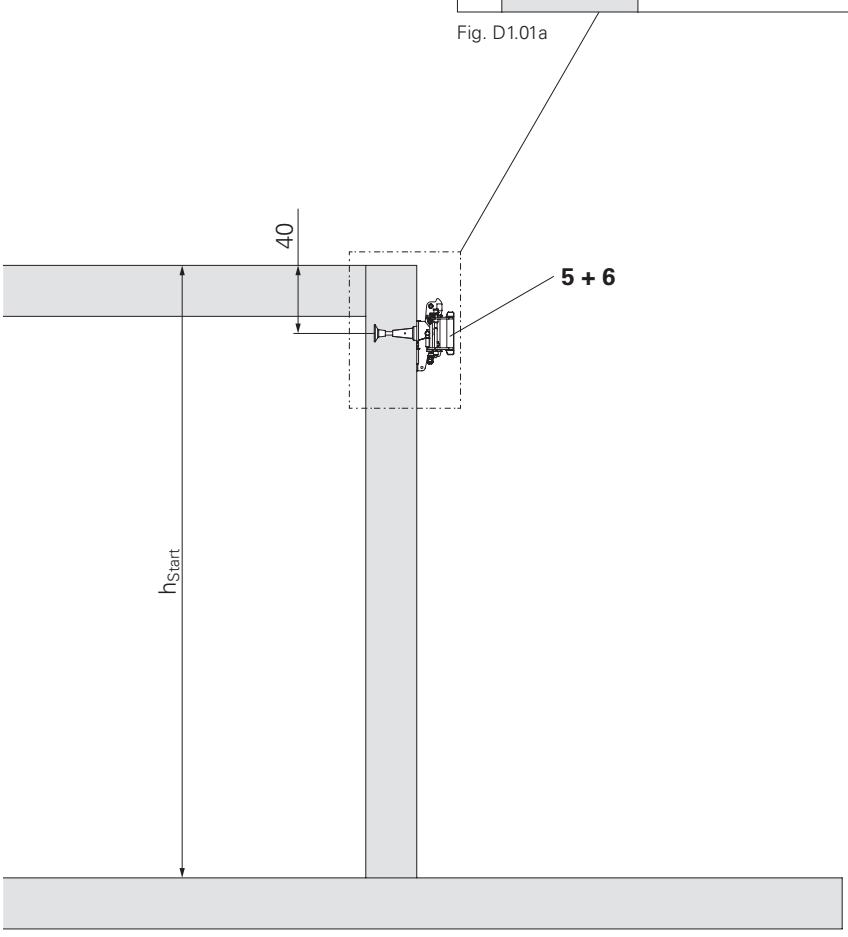


Fig. D1.01

Attaching the climbing rail

Components

9 Climbing Rail RCS
62 Climbing Traverse RCS 9 t

Attaching

1. Attach Climbing Rails RCS (**9**) with Climbing Traverse RCS 9 t (**62**) to additional Fitting Pin Ø26x120 mm or to topmost spacer.
2. Insert the Climbing Rails RCS (**9**) into the Climbing Shoe RCS (**5**).
3. Knock out the Climbing Traverse RCS 9 t (**62**) from a safe position.

(Fig. D1.02 + D1.02a)

- Are all the guiding skids (**5.2**) properly locked? (Fig. D1.02a)
- Are both Climbing Rails RCS suspended in the Climbing Shoes RCS?
- Is the climbing rail hinge swivelled in the pressure position?

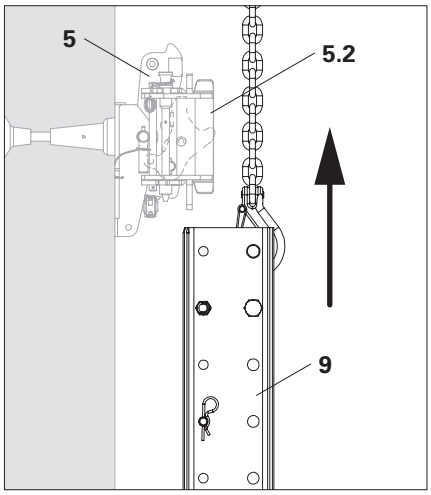


Fig. D1.02a

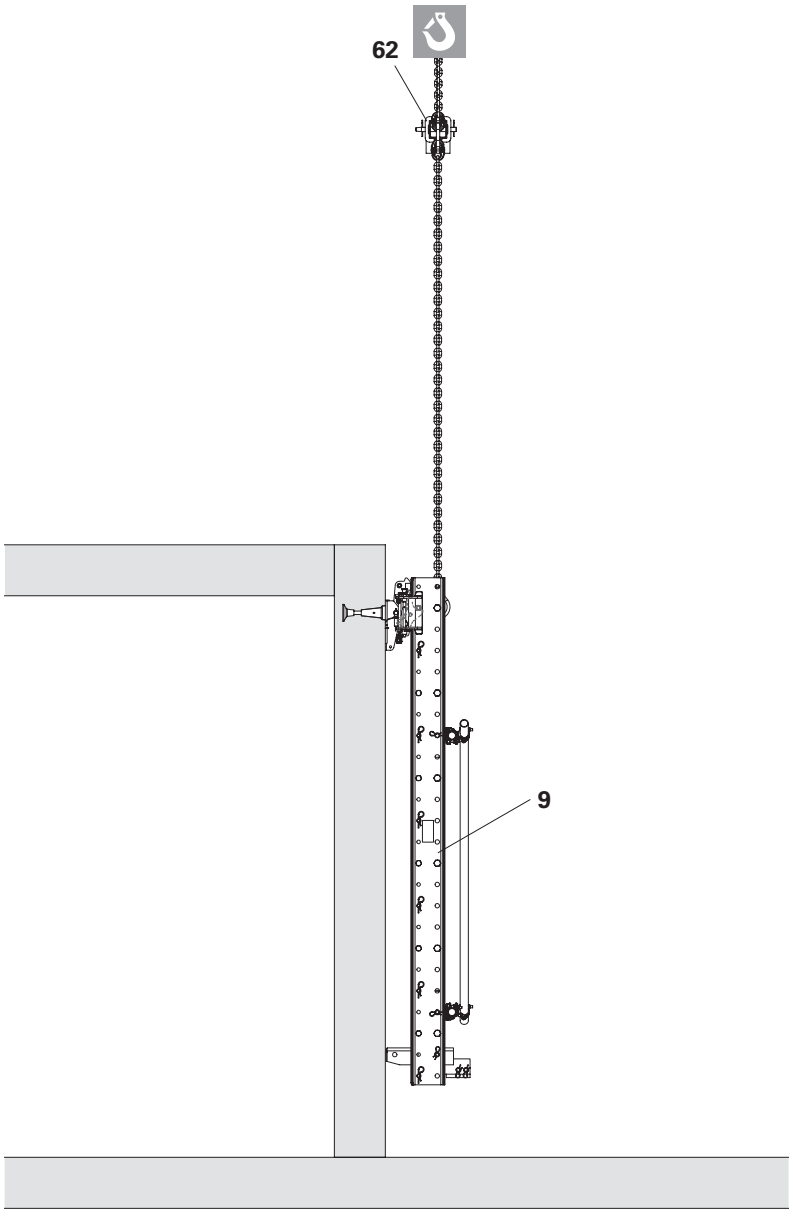


Fig. D1.02

Mounting the work platform

Guide the work platform with ropes when attaching it.

Components

24	Crossbeam Head RCS 220 VARIO
87	Diagonal Strut RCS 212
110	Project-specific bracing

Assembly

1. Attach the work platform to the Carriage RCS with the four-sling lifting gear (**24.3**).
   – Attachment points: 4x Fitting Pins Ø21 x 120 mm (**71**) and cotter pins 4/1 (**72**).
2. Fix the Crossbeam Head RCS 220 VARIO (**24**) with Crossbeam Head RCS/VARIO (**24.2**) to the specified hole of the Climbing Rail RCS (**9**) with bolt ISO 4014 M24 x 130-8.8 (**24.4**) and nut ISO 7040 M24-8 (**24.5**).
3. Fit the Diagonal Struts RCS 212 (**87**) onto the Crossbeam RCS 220 (**24.1**) and Climbing Rail RCS (**9**) with 2x bolts Ø 25 x 180 (**87.1**) and 2x cotter pins 4/1 (**87.2**).
4. Fasten the work platform to the ground with project-specific bracing (**110**) (in this case: Tension Belt L = 5.70 m/2.5 t and Base Plate-3 f. RS 210 – 1400, anchored with PERI 14/20 x 130 anchor bolt).
5. Knock out the crane lifting gear from a safe position.

(Fig. D1.03)

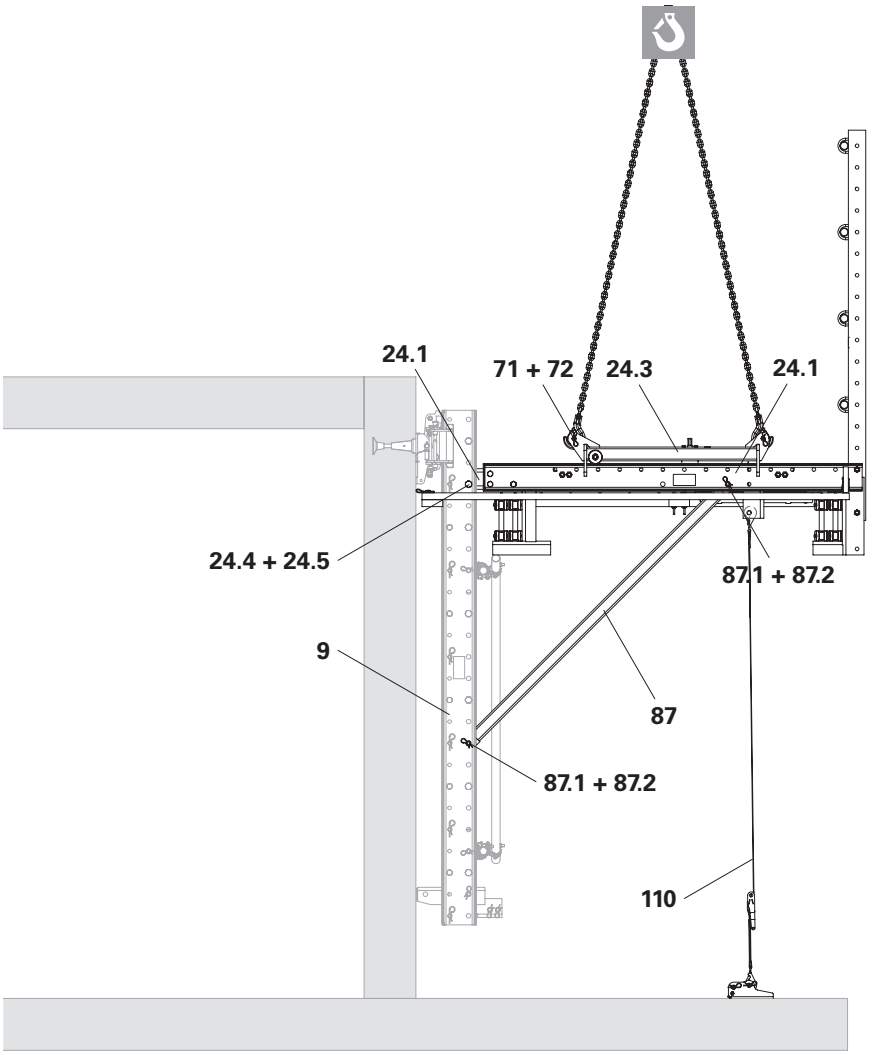


Fig. D1.03

Assembling the formwork

Refer to the assembly plans for the spindle position in the Steel Waler Universal SRU U120 (**55**) and the setting length of the heavy-duty spindle (**89**).

Components

71 Fitting Pin Ø21 x 120 mm
72 Cotter Pin 4/1
89 Heavy Duty Spindle SLS 200/300

Assembly

1. Fit the Heavy-Duty Spindle SLS 140-240 (**89**) onto Carriage RCS (**24.3**) using Fitting Pin Ø21 x 120 mm (**71c**) and cotter pin 4/1 (**72c**).
2. Attach pre-assembled formwork elements to the Spacer-2 LPS, Steel Walers Universal SRU U120 (**55**) or to the Lifting Eye-2 BR 2.5 t ga (**115**). If the climbing beam is not used, fit a compression brace between the strongbacks.
3. Set up the formwork and move it to the bracket unit.
4. Fit the Strongback SRU (**55**) onto the Carriage RCS (**24.3**) with Fitting Pin Ø21 x 120 mm (**71b**) and cotter pin 4/1 (**72b**).
   – The crane continues to carry the load.

(Fig. D1.04)

5. Fit the Heavy-Duty Spindle SLS 2 00/300 (**89**) onto the Steel Waler Universal SRU U120 (**55**) with Fitting Pin Ø21 x 120 mm (**71**) and cotter pin 4/1 (**72**).
6. Release crane from all loads and remove crane lifting gear.
7. Fit the leading tie onto the formwork.

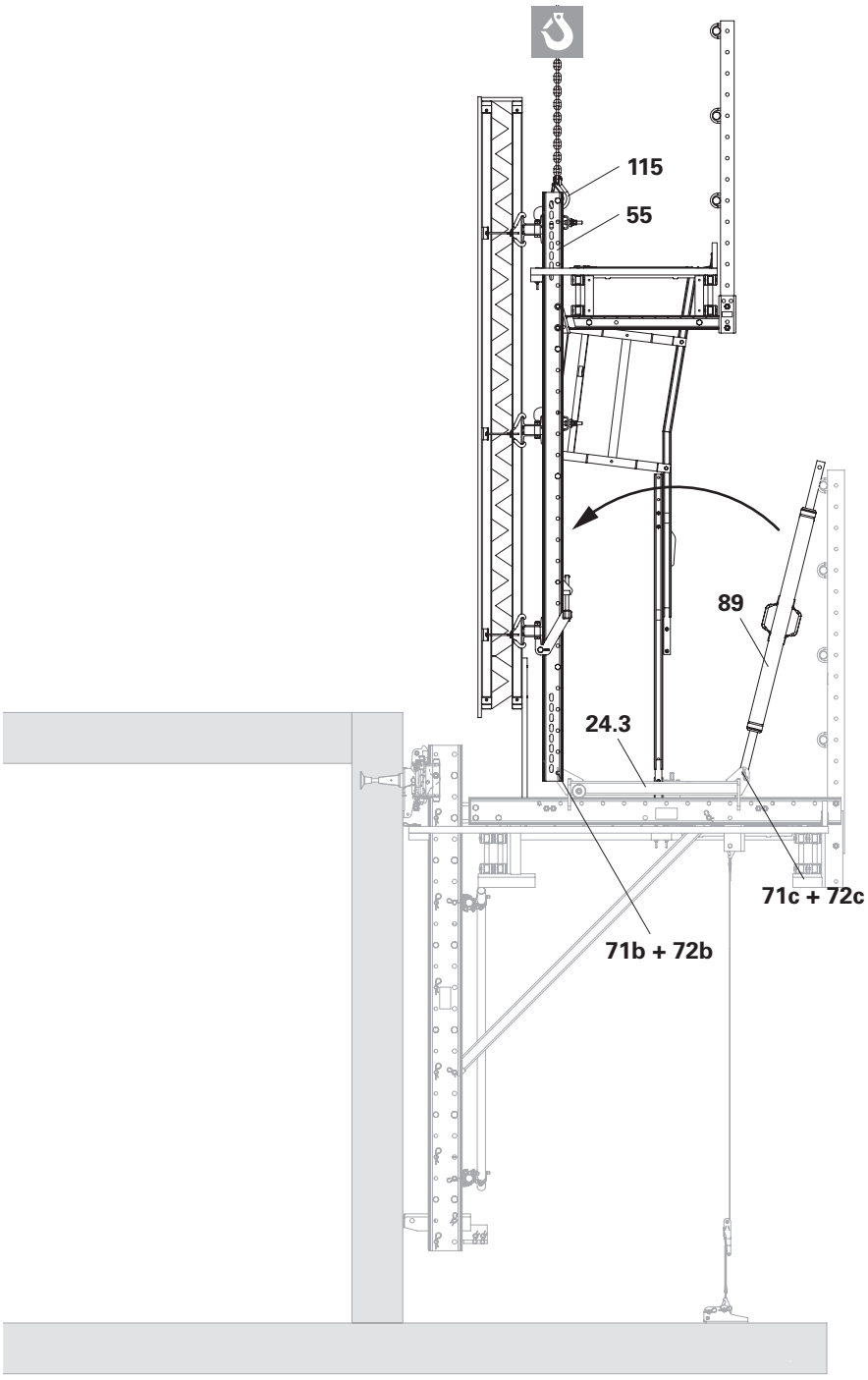


Fig. D1.04

Fitting the leading tie

Preparation
Measure the position of the leading tie on the ground plan and in terms of height and mark it on the formwork surface.

Standard: Advancing screw

- Ensure there is sufficient distance to the formwork girder. (Fig. D1.05a)
- If the distance is insufficient, the positioning disc must be used.
- Check all tie components, assembly and position before concreting takes place.
- Before deshuttering the formwork, always loosen the advancing screws first!

Components per climbing tie

76	Climbing Cone-2 DW 20 M30 ga	1x
77	Threaded Anchor Plate DW 20	1x
78	Tie Rod DW 20, special length	1x
79	Anchor Posit. Plate M30 ga	1x
80	Advancing Screw M30 ga	1x
90	Hex-Wood-Screw 6 x 20 DIN 571-ga	4x

Assembly
1. Drill a suitable hole in the formlining. (M30 = bore Ø 32 mm)
2. Screw Anchor Posit. Plate M30 ga (**79**) to the rear side of the formlining matching the drilled hole using 4x Hex-Wood-Screw 6 x 20 DIN 571-ga (**90**).
3. Insert the Advancing Screw M30 ga (**80**) through the hole from the rear side.
4. Screw the Climbing Cone-2 DW 20 M30 ga (**76**) from the front side on the Advancing Screw M30 ga (**80**).
5. Screw Tie Rod DW 20 (**78**) onto the Climbing Cone-2 DW 20 M30 ga (**76**).
6. Screw the Threaded Anchor Plate DW 20 (**77**) onto the Tie Rod DW 20 (**78**).

(Fig. D1.05 + D1.05a)

Danger

If the anchoring is installed incorrectly, the platform may collapse!
Collapsing platforms can cause serious injuries or even death.
⇒ Loosening or removing the anchoring must only be possible from the load transfer side.
⇒ Do not install two cones against each other. (Fig. D1.05b)
⇒ The anchoring depth must not be corrected by reducing the screw-in depth.
⇒ Make sure there are suitable windows in the reinforcement for closing the formwork. Do not unscrew the threaded anchor plate.
⇒ Check all anchoring points for correct screw-in depth and integrity before concreting begins.

Carefully grease the surfaces of the climbing cone that come into contact with concrete and the internal thread for the tie rod with suitable grease. This simplifies the process of removing the recoverable climbing cones.

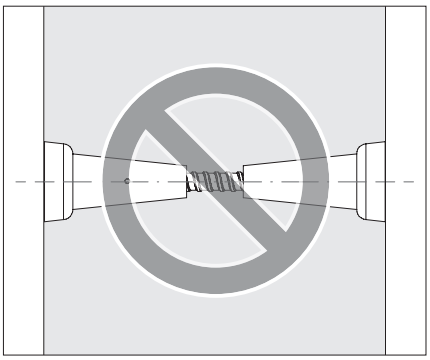


Fig. D1.05b

Precise alignment of the anchoring points in all 3 axes is essential if the climbing unit is to function correctly.
- Measure the anchoring points precisely (plumb line, chalk line) and fit them securely in their positions.
- To secure the position, fasten the Threaded Anchor Plate DW 20 (**77**) to the reinforcement, e.g. with wire.
- To this end, tie in additional reinforcement bars both vertically and horizontally, if necessary.
- Mounted leading ties must not be loaded or banged into accidentally.
- Never use as a climbing aid.

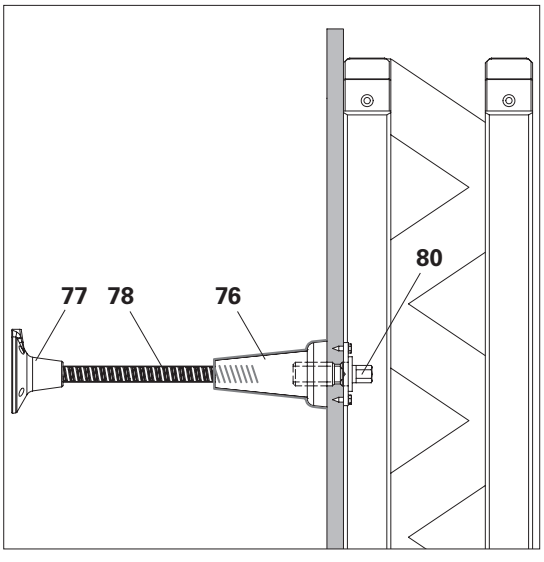


Fig. D1.05

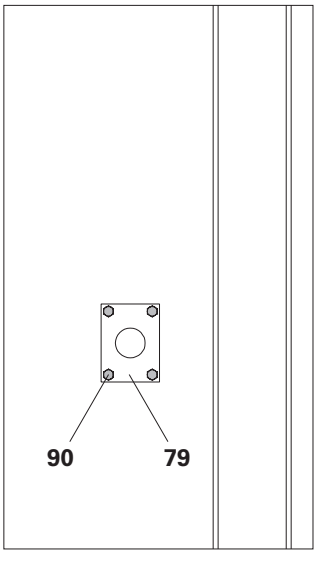


Fig. D1.05a

Alternatively: Positioning disc

- Fix the Threaded Anchor Plate DW 20 (**77**) or DW 26 (**92**) to the reinforcement with wire to secure the position. If necessary, close the formwork from the other side.
- Check all tie parts, the assembly and positioning before concreting, especially if the anchoring depth of the anchoring points is significant.
- If possible, use the fixing with the advancing screw as the connection is more stable.
- When deshuttering the formwork, the nails must be pulled through the formlining. So, do not bend the nails.

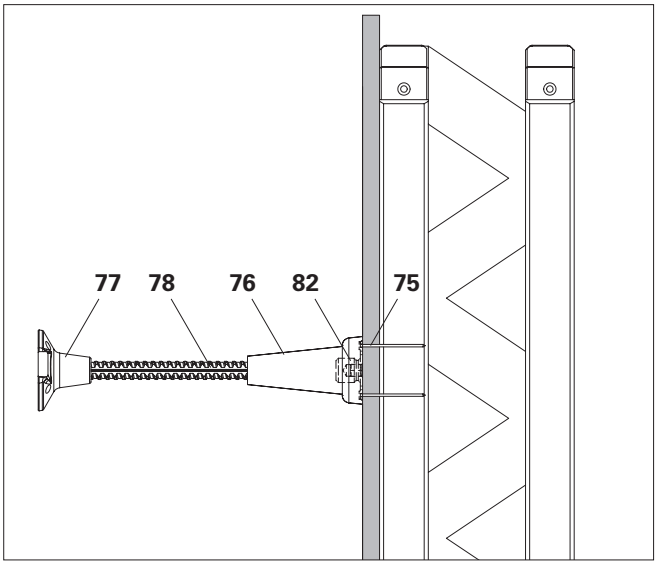


Fig. D1.06

Components per climbing tie

75 Wire nail 3 x 80	6x
82 Anchor Posit. Stud M30 ga	1x
Variant 1:	
76 Climbing Cone-2 DW 20 M30 ga	1x
77 Threaded Anchor Plate DW 20	
78 Tie Rod DW 20, special length	1x
Variant 2:	
91 Screw-On Cone DW26 M30	1x
92 Threaded Anchor Plate DW 26	1x

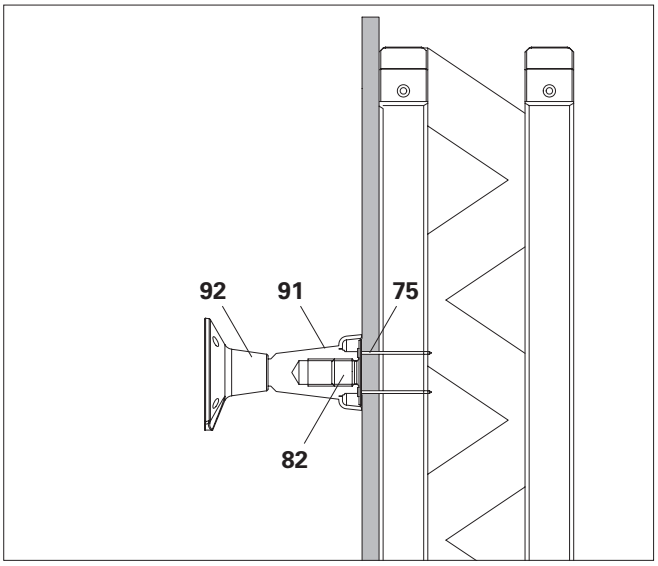


Fig. D1.07

Assembly

1. Nail the Anchor Positioning Stud M30 ga (**82**) to the front side of the formlining using 6x wire nails 3 x 80 (**75**).
2. Screw Climbing Cone-2 DW 20 M30 ga (**76**) onto the Anchor Posit. Stud M30 ga (**82**).
3. Screw Tie Rod DW 20 (**78**) onto the Climbing Cone-2 DW 20 M30 ga (**76**).
4. Screw the Threaded Anchor Plate DW 20 (**77**) onto the Tie Rod DW 20 (**78**).

(Fig. D1.06)

Alternative

Anchoring with Screw-On Cone DW26 M30 (**91**) and Threaded Anchor Plate DW 26 (**92**).
(Fig. D1.07)

Concreting

- Adhere to the permissible fresh concrete pressure for the formwork.
- For this, observe the permissible rate of rise of the formwork.

The following points need to be inspected prior to concreting:
- Reinforcement,
- Formwork ties,
- Climbing tie position and completeness,
- Any additional reinforcement required on the climbing tie.

Concreting

1. Reinforce the concreting section.
2. Move the Carriage RCS (**24.3**) to the concreting position.
3. Align the formwork vertically and horizontally with Heavy-Duty Spindle SLS 140-240 (**89**) and Adjusting Unit Carriage RCS (**57**).
4. Pretension the formwork moderately against the wall with the Carriage RCS (**24.3**).
5. Tie and connect the formwork.
6. Concrete the concreting section.

(Fig. D1.08)

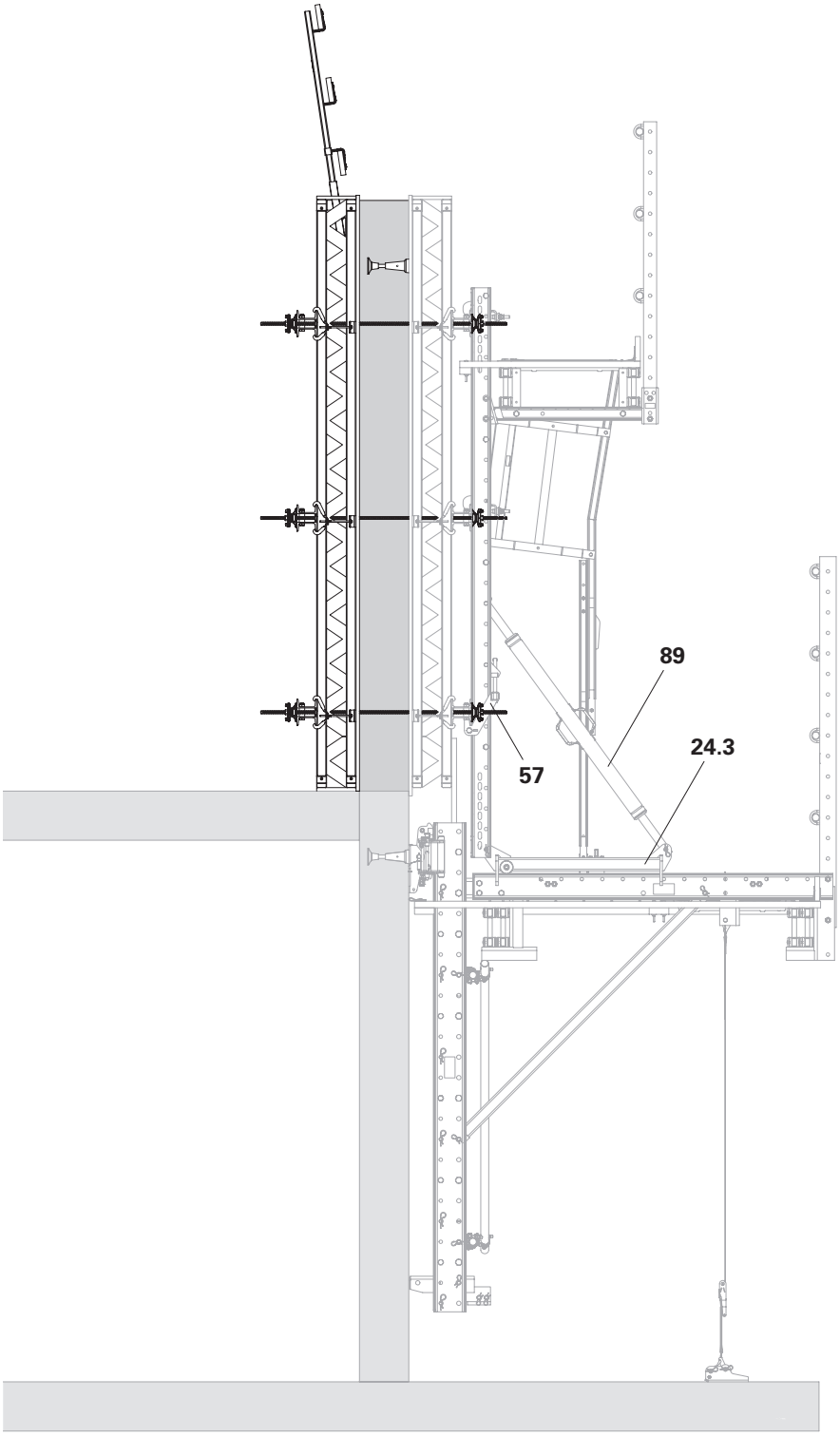


Fig. D1.08

Fitting climbing shoes

Components

5 Climbing Shoe RCS
6 Wall Shoe RCS

Assembly

1. Undo formwork ties, panel connections and leading tie fixings.
2. Retract the formwork with the Carriage RCS (**24.3**).
3. Fit Wall Shoes RCS (**6**) onto the Climbing Cones-2 DW 20 M30 ga (**76**) with bolts ISO 4017 M30x70-8.8.
4. Fit the Climbing Shoes RCS (**5**) onto the Wall Shoes RCS (**6**) with the corresponding locking pin.
5. Dismantle project-specific bracing (**110**). (In this case: Detach from the fixing point and leave it suspended on the Cross-beam Head RCS 220 VARIO).

(Fig. D1.09)

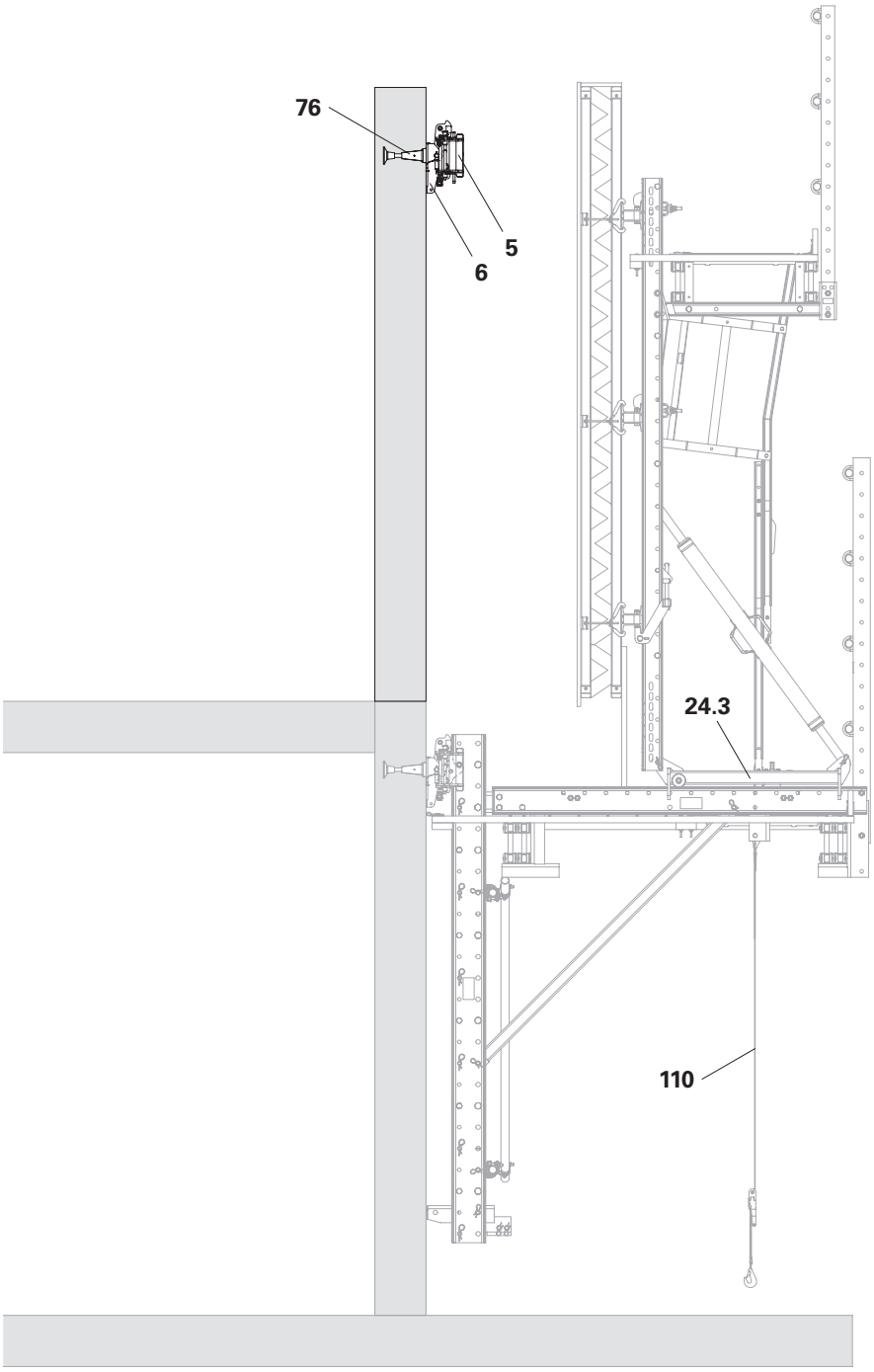


Fig. D1.09

D2 Second concreting section

First move

The first move is carried out partly **unguided** by climbing shoes.

Warning

The climbing unit may move unexpectedly. Persons in the vicinity can be hit and injured by components.

⇒ Keep a safe distance.
⇒ Use guide ropes when moving components.
⇒ Hold the ropes so that they can be released at any time.
⇒ Be prepared for sudden movements.

- In order to suspend the climbing unit vertically from the crane, determine the appropriate retracting distance for the carriage by trial and error.
- Guide console unit with ropes from a safe position.

Moving

1. Attach the crane lifting gear to the upper end of the strongback (**55**).
2. Leave the work platform.
3. Lift the bracket unit with the crane to the next concreting section.
   → The climbing rail hinge (**23**) swivels around the lower climbing shoe into the pressure position.
4. Insert the bracket unit into the climbing shoes from below until both climbing pawls audibly engage.
5. From a safe position, knock off the crane lifting gear.

(Fig. D2.01)

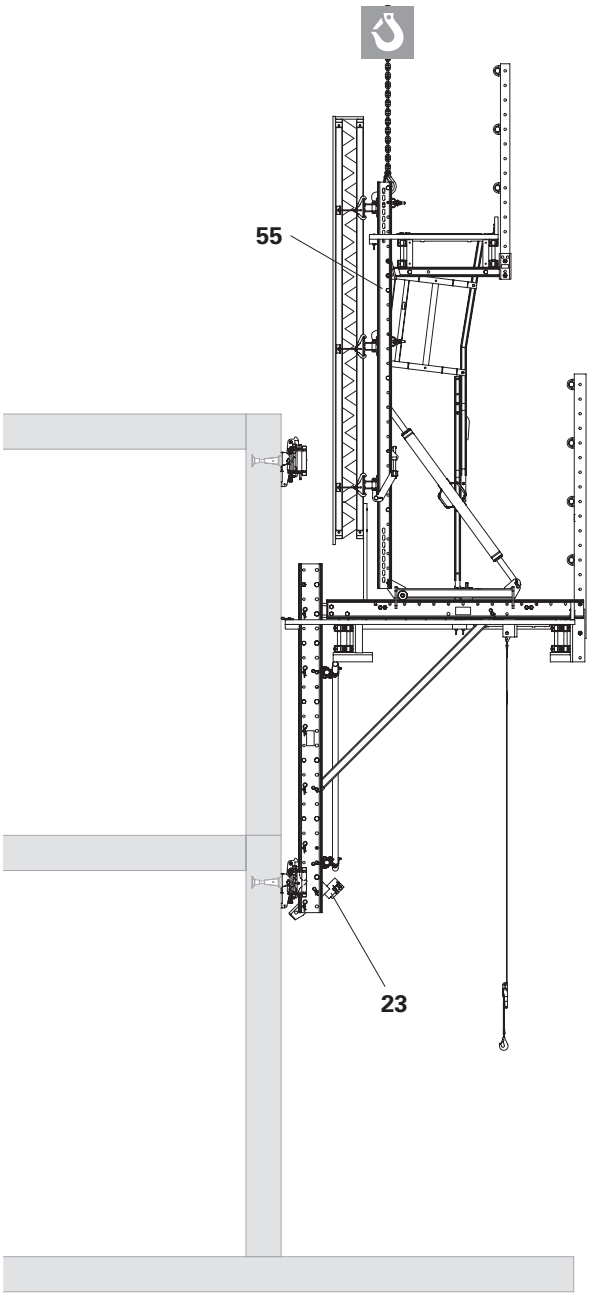


Fig. D2.01

- Are both climbing rails suspended properly in both climbing shoes?
- Is the climbing rail hinge swivelled in the pressure position?

Concreting

Warning

Danger of falling when installing the project-specific bracing!
A fall can result in serious injury or even death.

⇒ Install project-specific bracing from a safe working position.
⇒ Use personal protective equipment to prevent falling from a height (PPE).

- Adhere to the permissible fresh concrete pressure for the formwork.
- For this, observe the permissible rate of rise of the formwork.

Before concreting, the following points must be approved by a competent person:

- Reinforcement,
- Formwork ties,
- Climbing tie position and completeness,
- Additional reinforcement on the climbing tie.

Concreting

1. Attach the work platform to the wall with project-specific bracing (**110**) (in this case: fasten Tension Belt L = 5.70 m/2.5 t and Tension Belt Connector Wall M36 with Advancing Screw M30 ga) to the wall.
2. Reinforce the concreting section and fit the leading tie onto the formwork.
3. Move the Carriage RCS (**24.3**) to the concreting position.
4. Align the formwork vertically and horizontally with Heavy-Duty Spindle SLS 140-240 (**89**) and Adjusting Unit Carriage RCS (**57**).
5. Pretension the formwork moderately against the wall with the Carriage RCS (**24.3**).
6. Tie and connect the formwork.
7. Concrete the concreting section.

(Fig. D2.02)

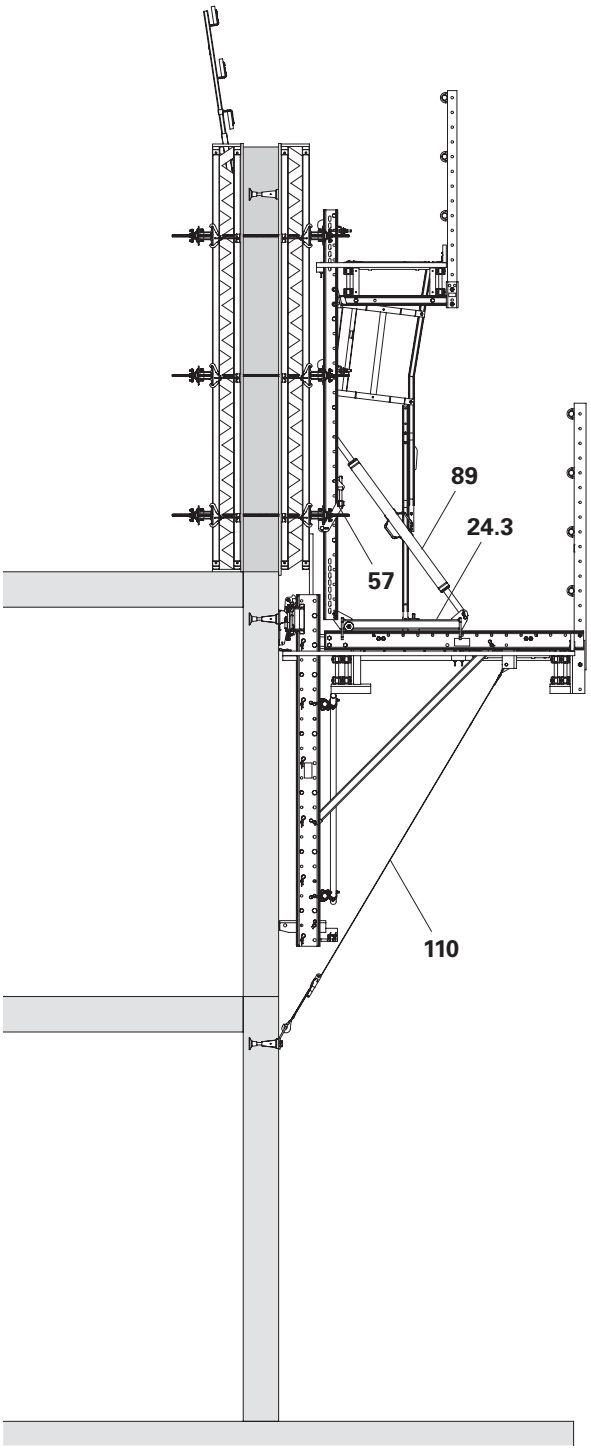


Fig. D2.02

Final steps

Warning

Danger of falling during assembly/ dismantling!
A fall can result in serious injury or even death.

- ⇒ Carry out assembly/dismantling from a safe working position.
- ⇒ Install guardrails.
- ⇒ Use personal protective equipment to prevent falling from a height (PPE).

Components

5 Climbing Shoe RCS
6 Wall Shoe RCS
64 KK Concrete Cone M30-80/52

Assembly/dismantling

1. Undo formwork ties, panel connections and leading tie fixings.
2. Fit Wall Shoes RCS (**6**) onto the Climbing Cones-2 DW 20 M30 ga (**76**) with bolts ISO 4017 M30x70-8.8.
3. Fit the Climbing Shoes RCS (**5**) onto the Wall Shoes RCS (**6**) with the corresponding locking pin.
4. Dismantle the formwork and place it on the ground with a crane, see Section "D3 Completing the climbing unit" on page 103.
5. Dismantle project-specific bracing (**110**) and activate Climbing Shoe RCS (**5**).
6. Close the tie hole with KK Concrete Cone M30-80/52 (**64**).
7. Dismantle back protection from a safe working position or with PPE.

(Fig. D2.03)

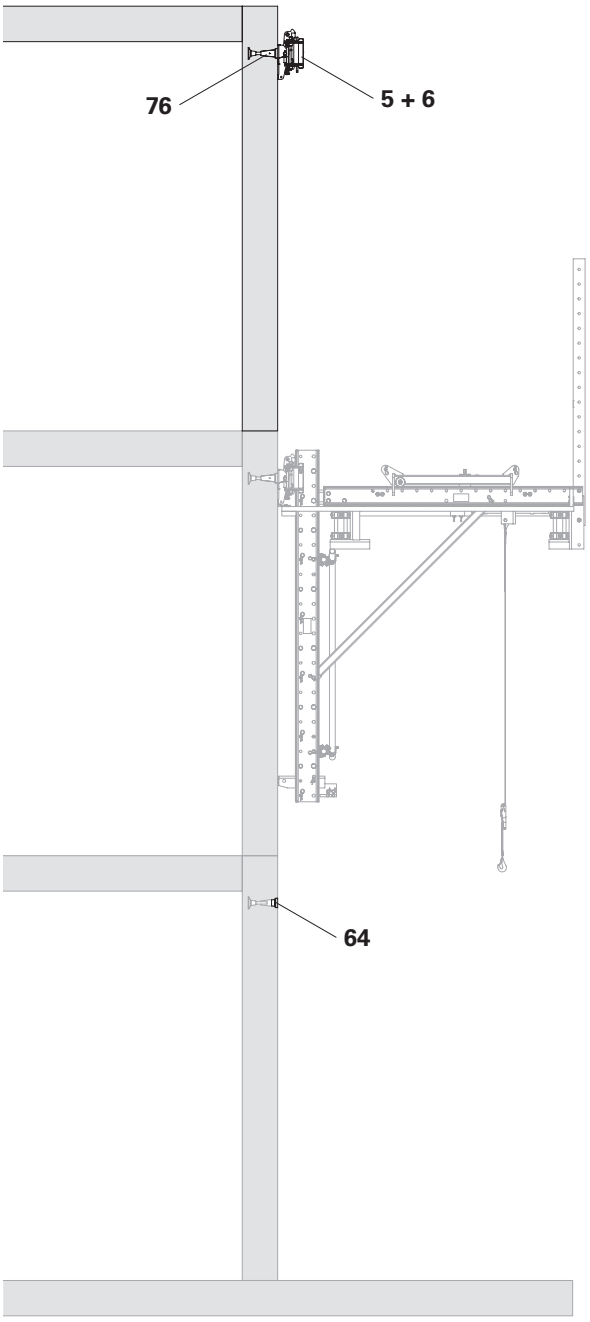


Fig. D2.03

Is the Climbing Shoe RCS activated?

Setting down formwork units

- A flat assembly surface is required for installation.
- Secure intermediate posts with temporary supports to prevent tipping over.
- Do not stand under the suspended load

Setting the load down

1. Attach the formwork unit to the crane.
2. Remove the formwork unit from the work platform by undoing the Fitting Pins Ø21 x 120 mm on the carriage.
3. Set the formwork unit down on the assembly surface.
4. Readjust the strongback on the formwork, if necessary.

(Fig. D3.01)

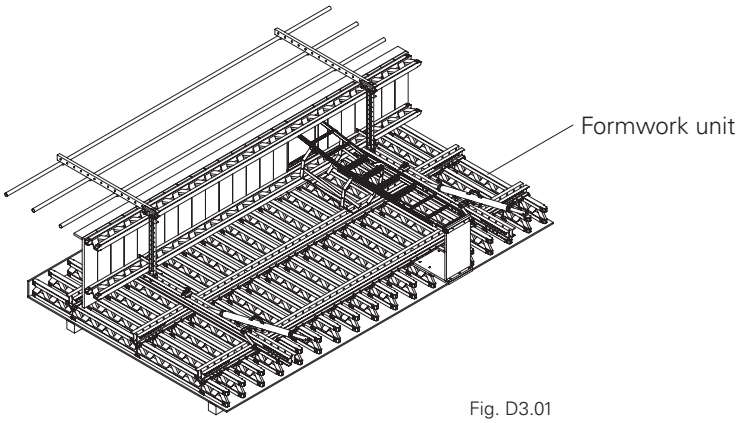


Fig. D3.01

Setting the work platform down

- Secure intermediate posts with temporary supports to prevent tipping over.
- Do not stand under the suspended load
- If necessary, temporarily remove the scaffolding tubes of the guardrail boards to avoid a collision with the crane lifting gear.

Setting the load down

1. Attach the work platform to the crane.
   – The attachment points are the Fitting Pins Ø21 x 120 mm on the carriage.
2. Open the Climbing Shoes RCS.
3. Pull the work platform out of the climbing shoes, lift it off the wall and set it down on the assembly surface.

(Fig. D3.02)

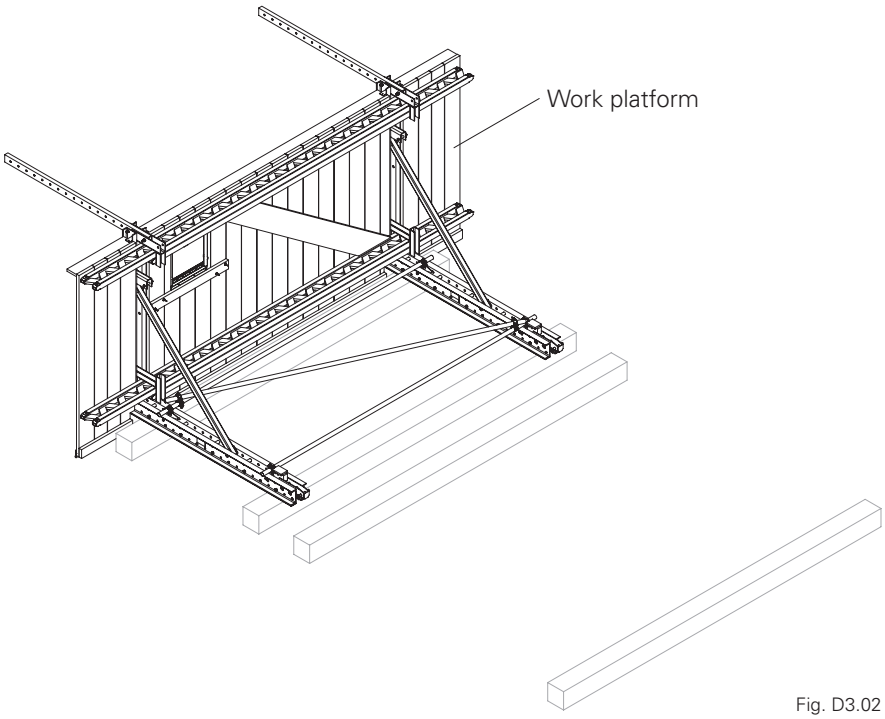


Fig. D3.02

Mount the Driving Rails RCS C MAX and Pin Set RCS MAX

Attach the Driving Rails RCS C (**10**) to the spacers.

Components

10 Driving Rail RCS C
84 Pin Set RCS MAX

Laying out

1. Attach the driving rails to the crane.
2. Place the driving rails on the assembly surface below the Climbing Rails RCS (**9**) and align them.
3. Fold the Climbing Rail Hinge RCS (**23**) into a horizontal position.
4. Remove pin Ø 25 x 180 (**23.1a + 23.1b**) and cotter pin 4/1 (**23.2a + 23.2b**) from the parking position in the Climbing Rail Hinge RCS (**23**).
5. Fix the Climbing Rail Hinge RCS (**23**) with bolt Ø 25 x 180 (**23.1a**) and cotter pin 4/1 (**23.2a**) to the Climbing Rail Hinge RCS (**9**).
6. Mount Climbing Rail Hinge RCS (**23**) with bolt Ø 25 x 180 (**23.1b**) and cotter pin 4/1 (**23.2b**) to the Driving Rail RCS C (**10**).
7. Mount the Pin Set RCS MAX (**84**) in the lowest hole of the climbing rail:
   - Place the sleeve (**84.2**) in the specified position in the Climbing Rail RCS (**9**).
   - Insert bolt 20 x 140 (**84.1**) through Climbing Rail RCS (**9**) and sleeve (**84.2**) and secure bolt 20 x 140 (**84.1**) with cotter pin 4/1 (**84.3**).

(Fig. D3.03 + D3.03a)

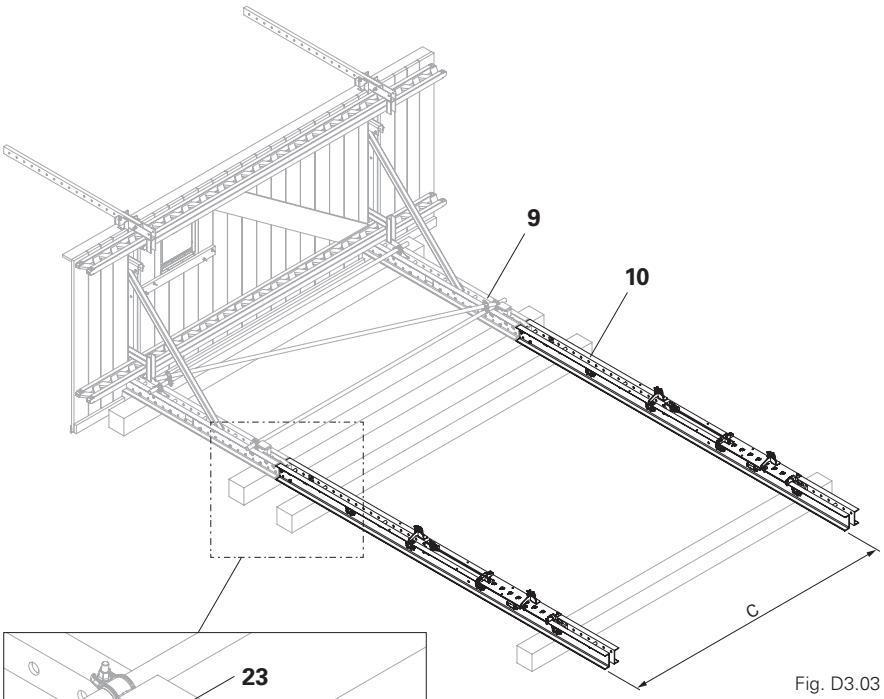


Fig. D3.03

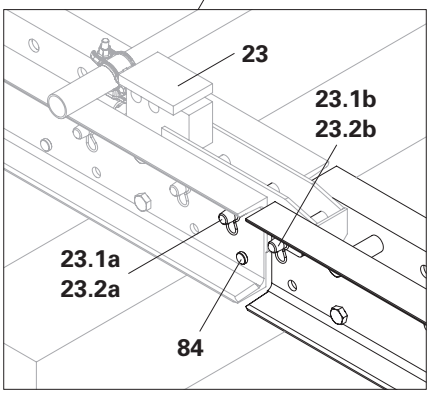


Fig. D3.03a

Fitting the bracing

Components

39 Scaff. Tube 48.3 x 3.2 mm lfm ga
86 Swivel Coupling AF 48/48

Assembly

1. Open diagonal connections (**10.2**).
2. Insert Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39a**).
3. Close diagonal connection (**10.2**).
4. Fit Swivel Couplings AF 48/48 (**86**) and open upper couplings.
5. Insert Scaff. Tube 48.3 x 3.2 mm lfm ga (**39b**).
6. Close Swivel Couplings AF 48/48 (**86**).

(Fig. D3.04 + D3.04a)

Refer to the project-specific plan for the length of the scaffolding tubes.

Are the Driving Rails RCS (**10**) correctly aligned?

- parallel,
- aligned with the climbing rails,
- correct distance from each other.

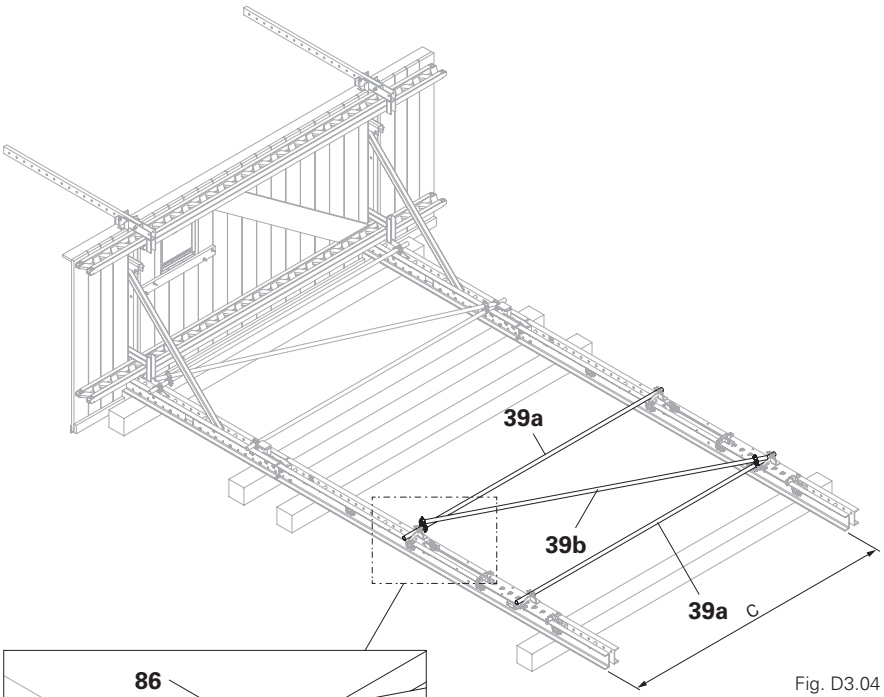


Fig. D3.04

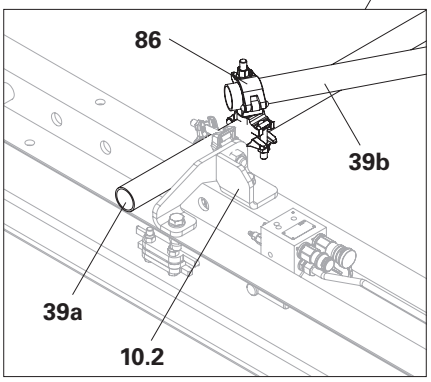


Fig. D3.04a

Installing the intermediate platform

Components

C Intermediate platform
71 Fitting Pin Ø21 x 120 mm
72 Cotter Pin 4/1
112 Diagonal Strut RCS 142

Assembly

1. Attach the intermediate platform to crane with Fitting Pin Ø21 x 120 mm (**71**) and cotter pin 4/1 (**72**) and transport to Driving Rail RCS C (**10**).
2. Screw the Intermediate Platform Beam RCS 241 (**28**) (**31**) to the Driving Rail RCS C (**10**) with the supplied hex. bolt M24 x 130 (**28.1**) and nut (**28.2**).
3. Fit the Diagonal Struts RCS 142 (**112**) onto the Intermediate Platform Beam RCS 241 (**28**) and Driving Rail RCS (**10**) with 2x bolts Ø 25 x 180 (**112.1**) and 2x cotter pins 4/1 (**112.2**).

(Fig. D3.05 + D3.05a + D3.05b)

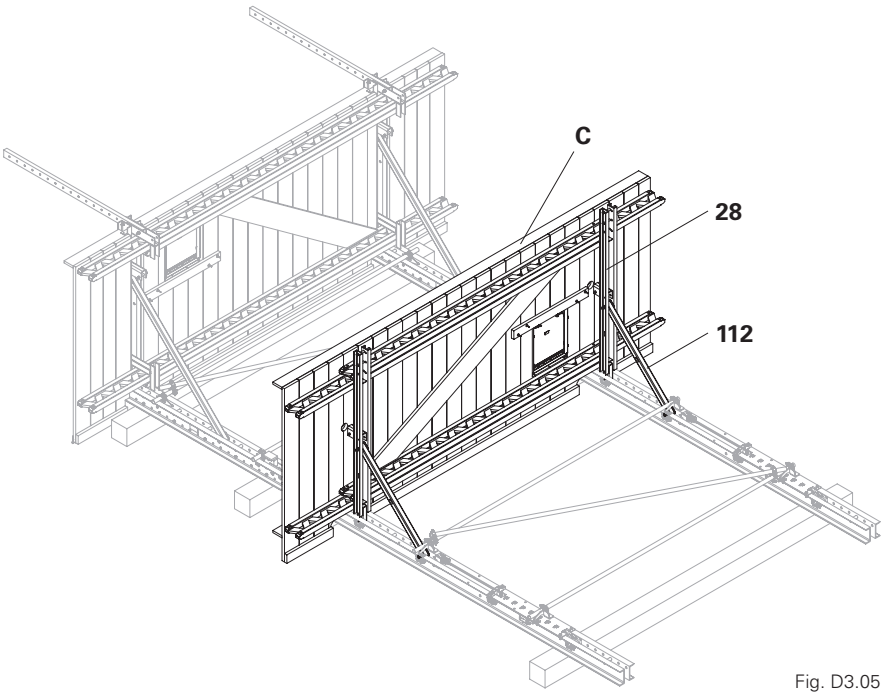


Fig. D3.05

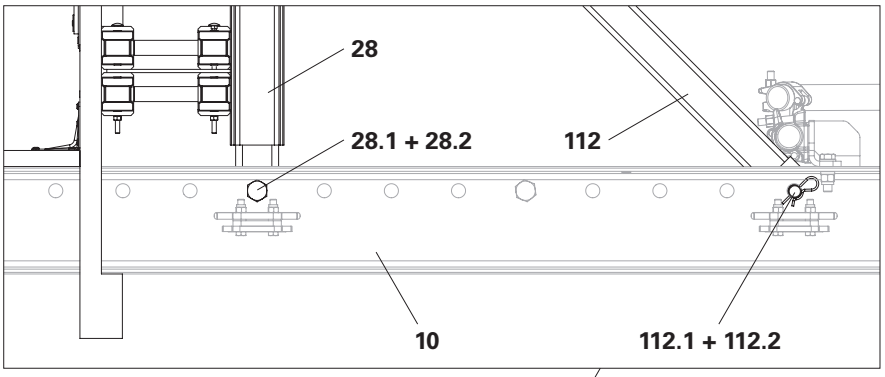


Fig. D3.05b

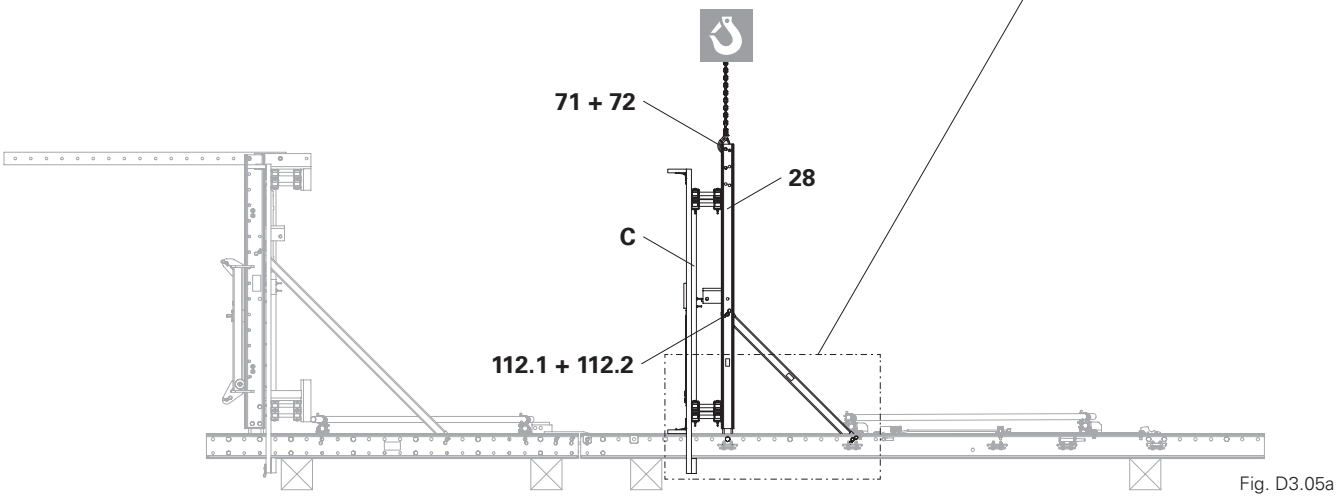


Fig. D3.05a

Assembling the finishing platform

Components

D	Finishing platform

Assembly

1. Attach the finishing platform (**D**) to the crane and lift it in. Temporarily secure the finishing platform (**D**) to prevent it from tipping over.
2. Fit the Finishing Platform Beams RCS 122 (**40**) onto the lowest hole of the Driving Rail RCS C MAX (**10**) with bolt ISO 4014 M24 x 130-8.8 (**40.1**) and nut ISO 7040 M24-8 (**40.2**).

(Fig. D3.06 + D3.06a + D3.06b)

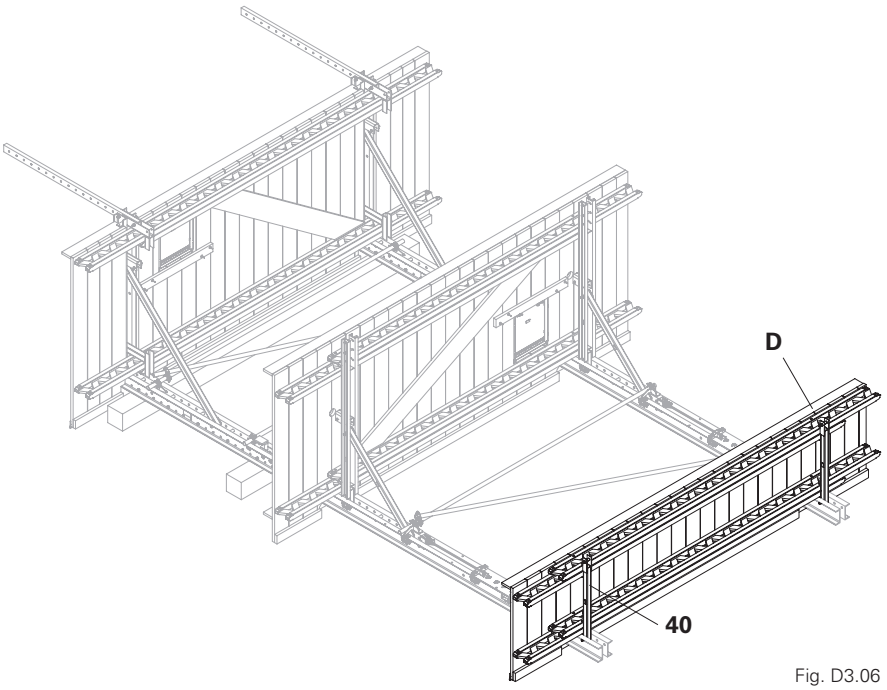


Fig. D3.06

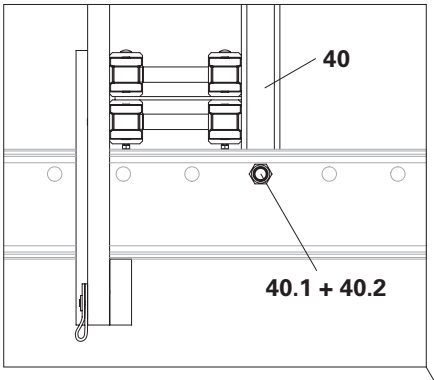


Fig. D3.06b

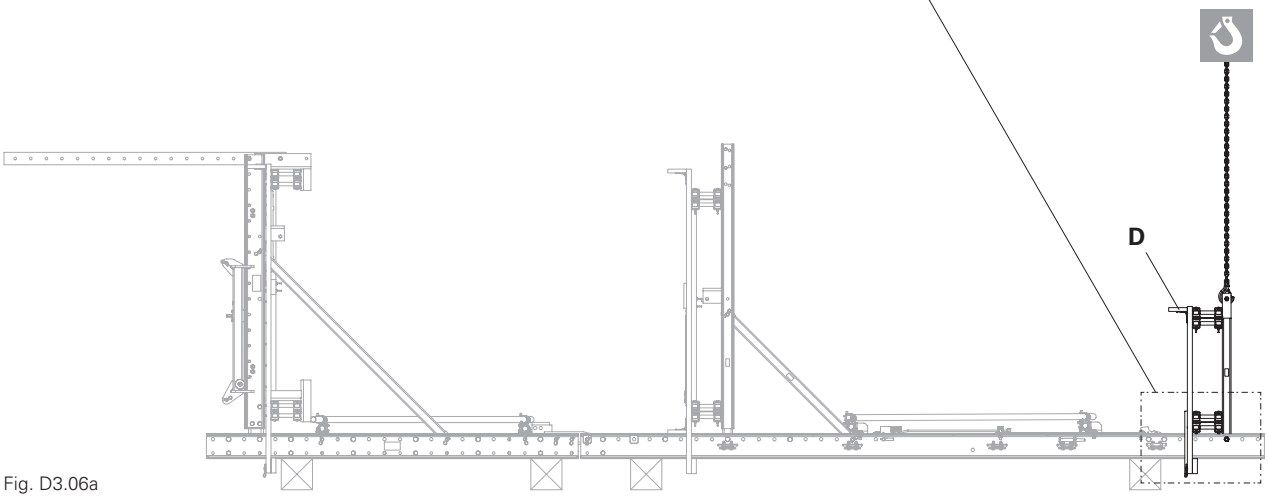


Fig. D3.06a

Fit the guardrail posts and adjustable spindles

Standard configuration with scaffolding tubes or handrail boards:
- Fixing holes in the guardrail post point inwards.

Components

71	Fitting Pin Ø21 x 120 mm
72	Cotter Pin 4/1
97	Guardrail Post 509 RCS
111	Adjustable spindle
113	Guardrail Post 384 RCS

Assembly

1. Insert the filler pin in the intermediate platform beam in position 1 or 2 depending on Guardrail Post 509 (U120) or 384 (U100). (Fig. D3.07d/e)
2. Insert the upper Guardrail Post 384 RCS (**113**) or RCS 509 (**97**) between the Fitting Pins Ø21 x 120 mm in the Intermediate Platform Beam RCS 241 (**28**).
3. Mount the lower Guardrail Post 384 RCS (**113**) or RCS 509 (**97**) with bolt ISO 4014 M20 x 120-8.8 (**113.1**) and Hex-Nut ISO 7040-M20-8-ga (**113.2**) to the Crossbeam Head RCS 220 VARIO (**24**) according to the plan.
4. Mount Guardrail Post RCS with bolt ISO 4014 M20 x 120-8.8 (**97.1**) and Hex-Nut ISO 7040-M20-8-ga (**97.2**) to Intermediate Platform Beam RCS 241 (**28**).
5. Fit Guardrail Post 509 RCS (**97**) onto Finishing Platform Beams RCS 122 (**40**) with bolt ISO 4014 M20 x 120-8.8, tube sleeve 26.9x2.6x60 (**40.3**) and Hex-Nut ISO 7040-M20-8-ga (**40.4**).
6. Mount the adjustable spindle (**111**) with 2x Fitting Pin Ø21 x 120 mm (**71**) and cotter pins 4/1 (**72**) to the Crossbeam Head RCS 220 VARIO (**24**) and the Intermediate Platform Beam RCS 241 (**28**).

(Fig. D3.07 + D3.07a/b/c)

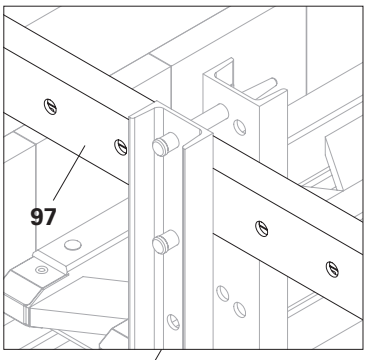


Fig. D3.07b

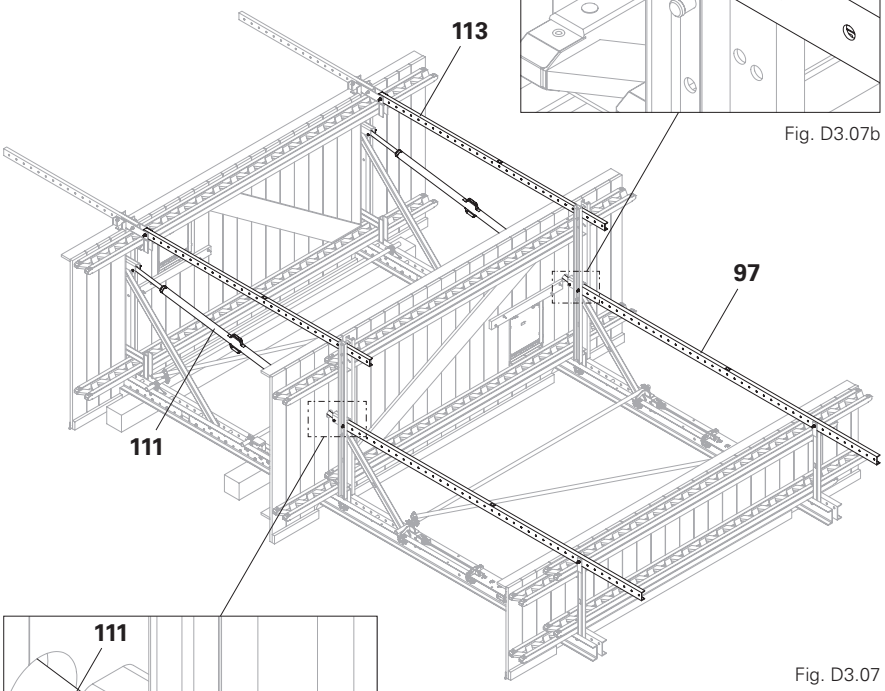


Fig. D3.07

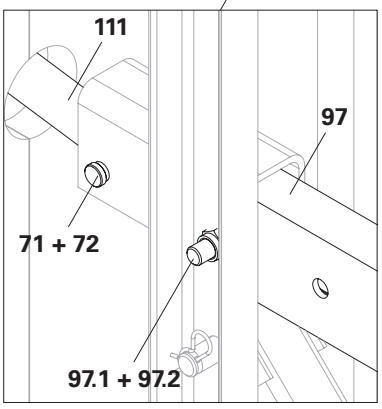


Fig. D3.07c

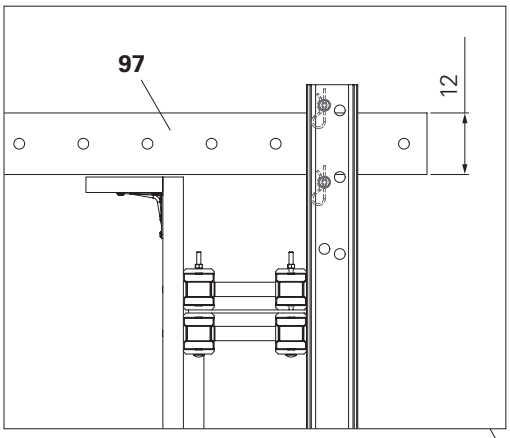


Fig. D3.07d

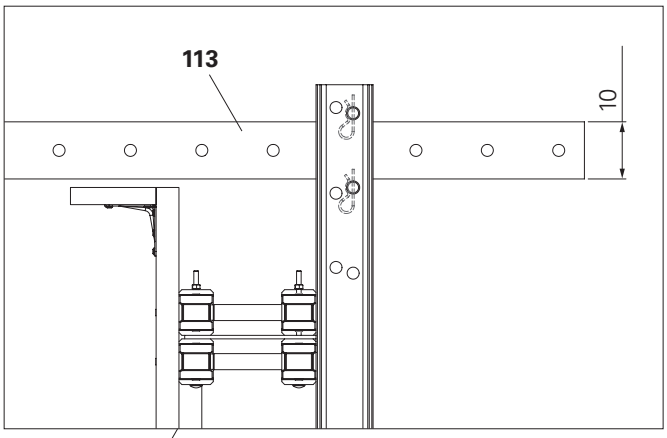


Fig. D3.07e

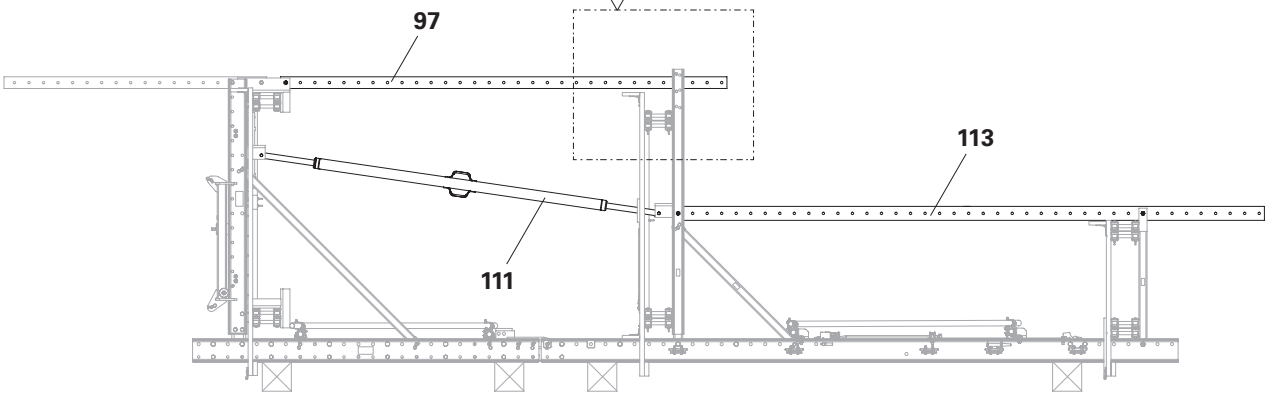


Fig. D3.07a

Installing guardrails

Components

38 Clamp A64 DIN 3570-M12-ga
39 Steel scaffolding tube Ø 21 x 120
44 Hex-Nut ISO 4032-M12-8-ga

Assembly

1. Insert Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39**) into Clamps A64 DIN 3570-M12-ga (**38**) and screw them into place on the inside on Guardrail Posts 509 RCS (**97**) and Guardrail Posts 348 RCS (**113**) with Hex-Nut ISO 4032-M12-8-ga (**44**).

(Fig. D3.08 + D3.08a + D3.08b)

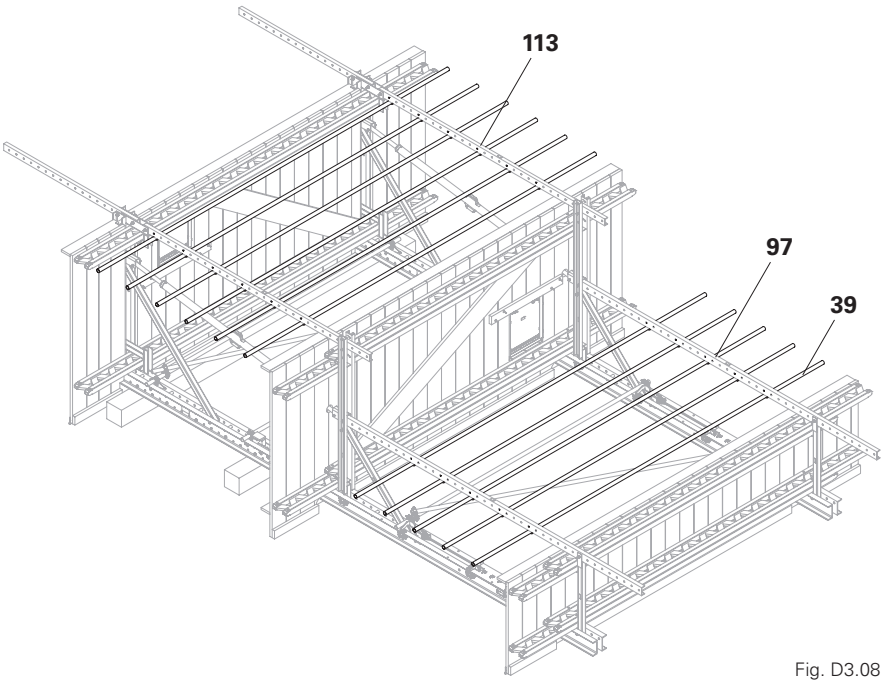


Fig. D3.08

- In the case of cantilevers with d > 1.10 m at the ends and spans of c > 4.40 m in the centre of the bay, connect or support at least 4 scaffolding tubes Ø 48.3 x 3.2 in order to prevent overloading.
- The length of the scaffolding tubes must be taken from the project-specific planning.
- Refer to the project-specific plan for the assembly process for the following lateral protection components:
  – Handrail boards,
  – Scaffolding tube Ø 60.3,
  – Scaffolding tubes with net enclosure,
  – Squared timber with full enclosure.

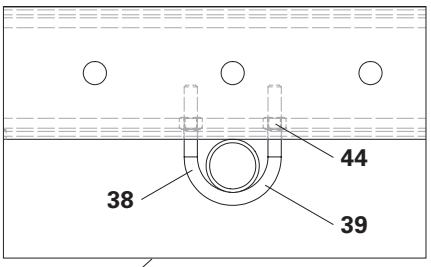


Fig. D3.08b

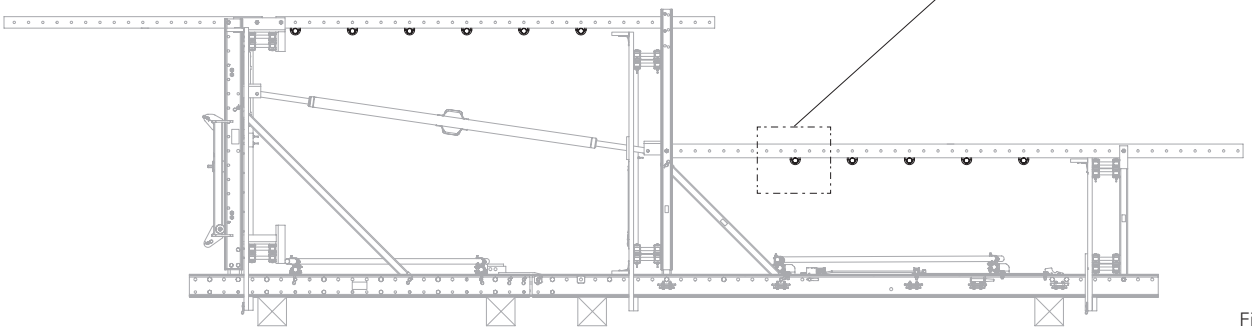


Fig. D3.08a

Attaching the unit

Guide the work platform with ropes when attaching it.

Components

9 Climbing Rail RCS
24.3 Carriage RCS

Attaching

1. Open and deactivate the guiding skids (**5.2**) on the Climbing Shoes RCS (**5**) at positions **C** and **D**. The Climbing Shoes RCS (**5**) at positions **B** remain closed and activated.
2. Attach the 4-sling lifting gear to the Carriage RCS (**24.3**).
3. Insert the Climbing Rails RCS (**9**) of the climbing unit into the Climbing Shoes RCS (**5**) at positions **B** from below.
   → The inner guides of the open climbing shoes at positions **C** and **D** engage in the Climbing Rail RCS (**9**) and in the Driving Rail RCS C (**10**).
4. Place the climbing unit with the top spacer (**9.1**) of the Climbing Rail RCS (**9**) on the climbing pawl in the Climbing Shoe RCS (**5**) at position **B**. (Fig. D4.01a)
5. Close the guiding skids (**5.2**) of the Climbing Shoes RCS at position **C** and **D** from a safe working position.
6. Knock out the 4-sling lifting gear from a safe position.

(Fig. D4.01)

- Is the load of the climbing unit properly supported? (Fig. D4.01a)
- Are all the guiding skids (**5.2**) properly locked?

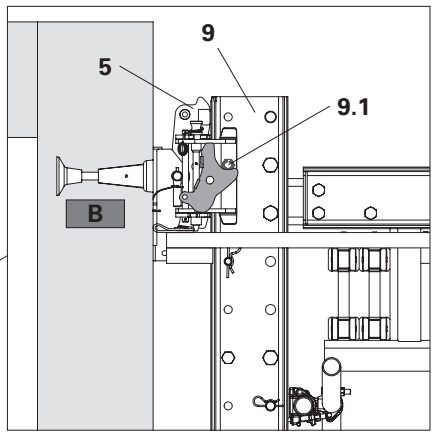


Fig. D4.01a

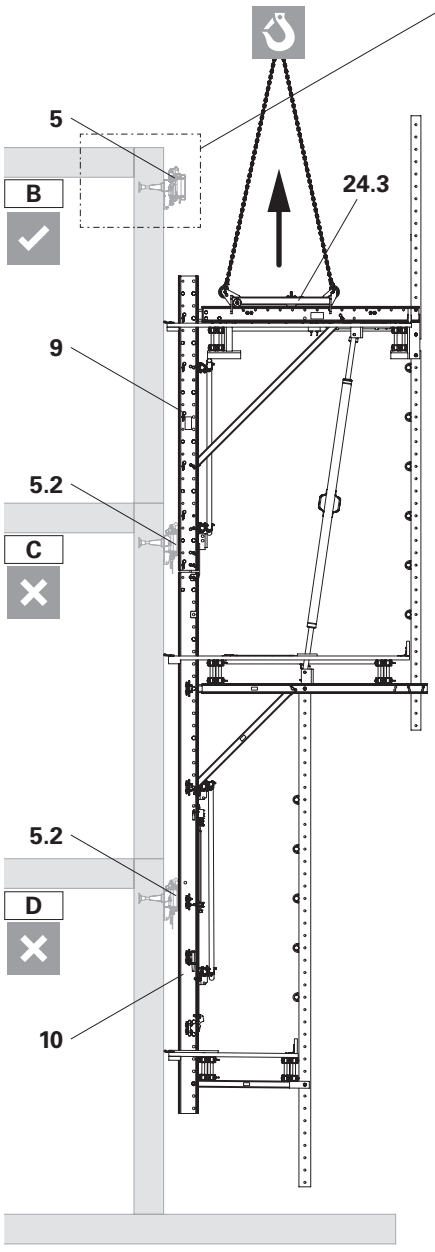


Fig. D4.01

Installing the ladders and ladder cage

Components

Ladder
38 Clamp A64 DIN 3570-M12-ga
39 Steel scaffolding tube Ø 21 x 120
44 Hex-Nut ISO 4032-M12-8-ga

Assembly

1. Insert Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39**) into Clamps A64 DIN 3570-M12-ga (**38**) and screw them into place on the inside on Guardrail Posts RCS 184 (**43**) with Hex-Nut ISO 4032-M12-8-ga (**44**).
2. Attach the pre-assembled ladders and screw them to the Hatch-2 RCS 55 x 60 foldable (**32**).
3. Screw the Ladder Base 30 ga (**48**) to the deck of the finishing platform.

(Fig. D4.02)

- In the case of cantilevers with d > 1.10 m at the ends and spans of c > 4.40 m in the centre of the bay, connect or support at least 4 scaffolding tubes Ø 48.3 x 3.2 in order to prevent overloading.
- The length of the scaffolding tubes must be taken from the project-specific planning.
- Refer to the project-specific plan for the assembly process for the following lateral protection components:
  – Handrail boards,
  – Scaffolding tube Ø 60.3,
  – Scaffolding tubes with net enclosure,
  – Squared timber with full enclosure.

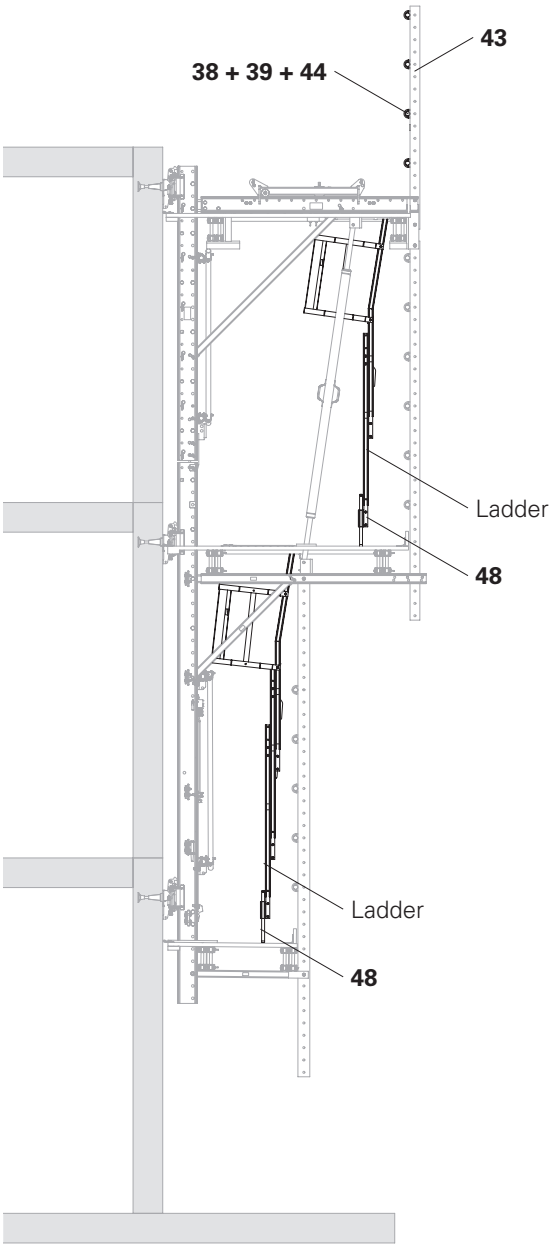


Fig. D4.02

Assembling the formwork

Components

71 Fitting Pin Ø21 x 120 mm
72 Cotter Pin 4/1
89 Heavy Duty Spindle SLS 140-240

Assembly

1. Fit the Heavy-Duty Spindle SLS 140-240 (**89**) with Fitting Pin Ø21 x 120 mm (**71**) and cotter pin 4/1 (**72**) onto the carriage (**24.3**).
2. Attach Spacer-2 LPS 52 (**63**) to the Steel Waler SRU (**55**) with Climbing Traverse RCS 9 t (**62**).
3. Place the VARIO GT 24 Girder-Wall Formwork (**54**) in position.

(Fig. D4.03)

4. Fit the VARIO GT 24 Girder-Wall Formwork (**54**) onto the Carriage RCS (**24.3**).
5. Knock off the crane lifting gear.

(Fig. D4.04)

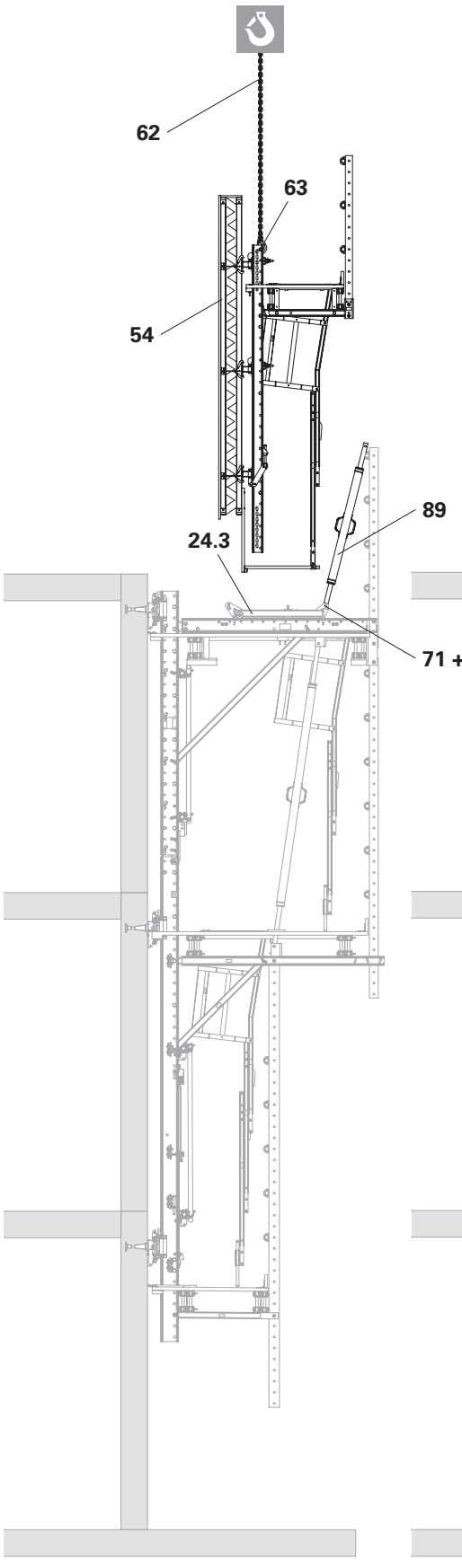


Fig. D4.03

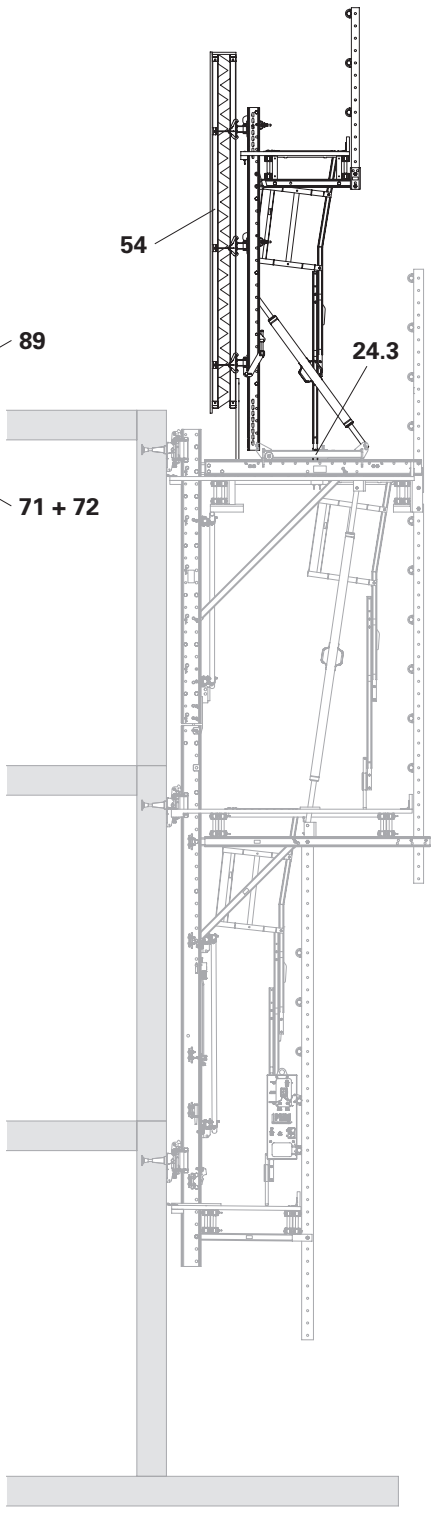


Fig. D4.04

Fitting the hydraulic unit

- Refer to the "RCS MAX Climbing Cylinder and Hydraulics" assembly instructions.
- Observe the assembly instructions for the hydraulic unit.

Components

3 Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V

Assembly

1. Fit Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V (**3**) onto Scaff. Tubes 48.3 x 3.2 mm lfm ga (**39**).
2. Connect the Climbing Cylinder RCS MAX 75 (**1**) to the Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V (**3**) and start up the Hydraulic Pump RCS MAX 2x 210 bar, 380-460 V (**3**) according to the assembly instructions.

(Fig. D4.05)

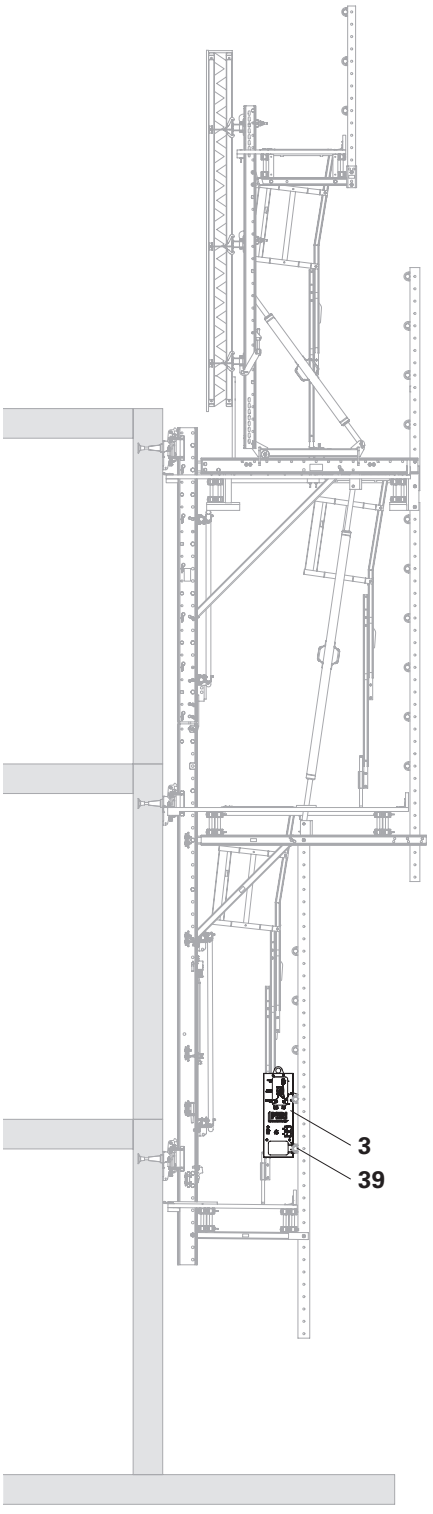


Fig. D4.05

Conventions on the instructions for action

The description always refers to all climbing units and all connected climbing devices of the hydraulic unit!

The following example shows the structure of an instruction for action.

Heading of the action step

Step 2: Extend the climbing saw

Load situation
■ The vertical load pawl is deactivated. ■ The climbing unit is positioned on the climbing pawl at position **A** with the spacer M20-82 (**9.1a**). ■ The hydraulic cylinder is fully retracted and relieved. ■ The climbing saw is fully retracted.
Climbing Shoes RCS
Position A: Activated
Position B: Deactivated
Position C: Deactivated

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

1. Adjust the climbing shoes, see table. (Fig. 15)
2. Extend the hydraulic cylinder and extend the climbing saw all the way.
   → The climbing unit does not move.
   → The climbing saw moves downwards.

(Fig. 16)

Climbing shoe activated

Grey field indicates position for introducing the vertical load

Climbing shoe deactivated

Position
Passage 1: **B**
Repetition: **C'**

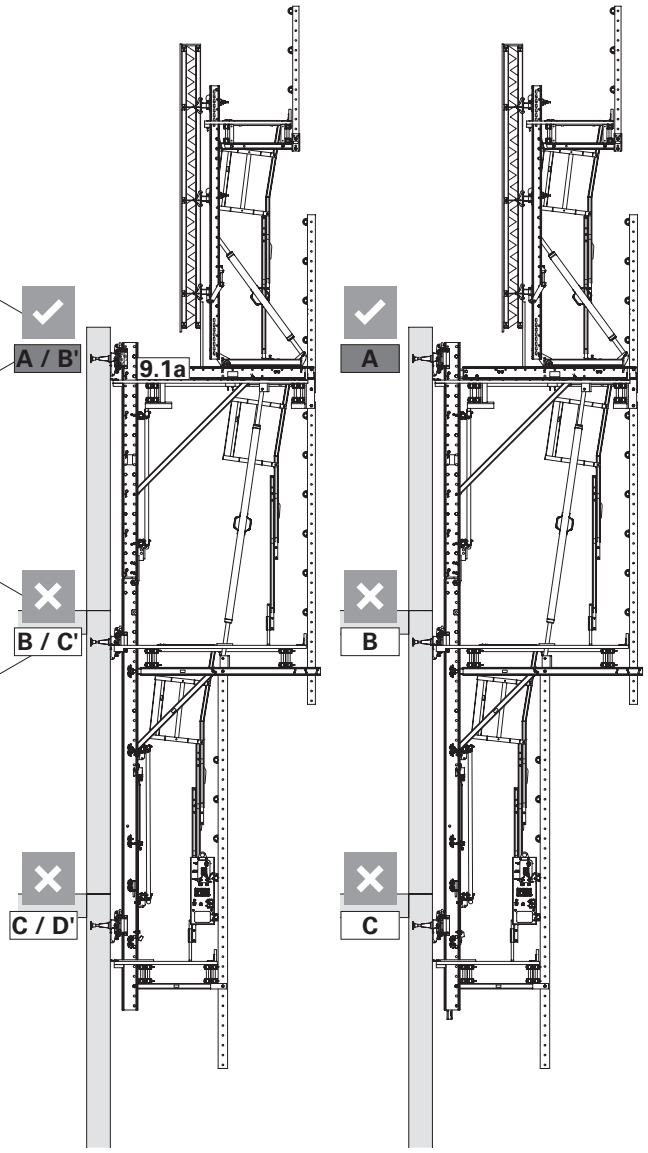


Fig. 15 Fig. 16

Describes the load situation and the position of the components at the start of an action step.

Describes the position of the climbing pawl in the climbing shoe at the start of an action step.

Illustrations show the climbing unit at the beginning, during and at the end of the action step.

Safety instructions are given at the beginning of the action steps so as not to interrupt the flow of action.

Action steps, outcome of the action step, if applicable, and reference to illustration.

- Refer to the "RCS MAX Climbing Cylinder and Hydraulics" assembly instructions.
- Follow the Instructions for Use of the Hydraulic Unit.
- Note the explanation of the vertical load pawl, see Section "E7 Vertical load pawl in driving rail" on page 148.

Transferring to position C

Load situation
The load rests on the Climbing Shoe RCS (**5**) at position **B** by way of the spacer (**9.1**) of the Climbing Rail RCS (**9**).

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Retracting

1. Retract the Climbing Cylinder RCS MAX 75 (**1**) completely
   → The climbing unit does not move.
   → The climbing saw (**10.6**) moves upwards.
2. Activate vertical load pawl (**10.7**).

(Fig. D5.01)

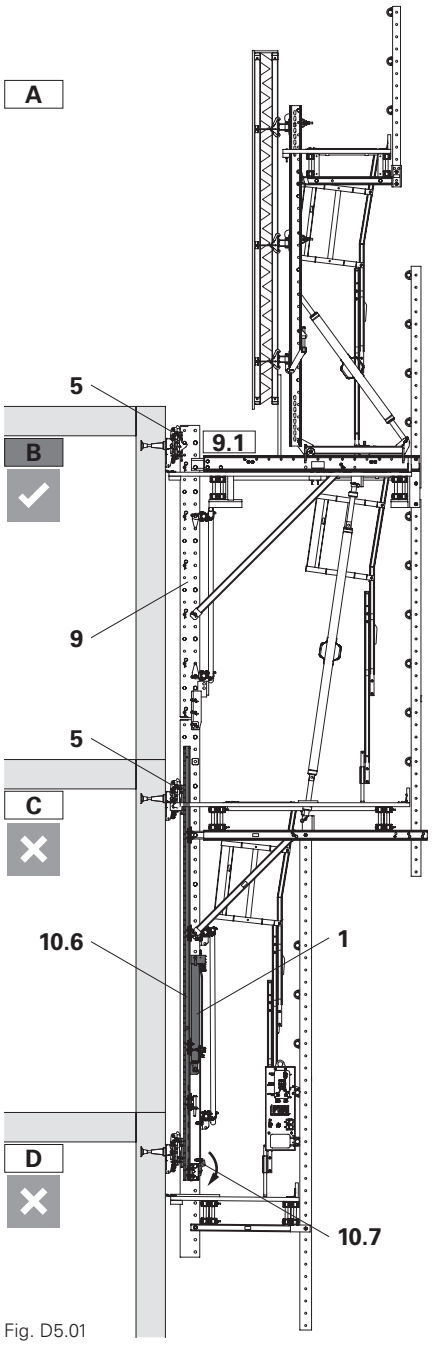


Fig. D5.01

Relocating

3. Activate the Climbing Shoe RCS (**5**) at position **C**. (Fig. D5.02)
4. Extend the Climbing Cylinder RCS MAX 75 (**1**) until the vertical load pawl (**10.7**) swivels into the climbing saw (**10.6**).
   → The climbing saw extends and rests on the climbing pawl (**5.1**) at position **C** with the teeth of the climbing saw (**10.6**).
   → The climbing unit then rises by a few centimetres.
5. Deactivate the Climbing Shoe RCS (**5**) at position **B**.

(Fig. D5.03)

Load situation

- The vertical load pawl (**10.7**) is activated.
- The load is resting on Climbing Shoe RCS (**5**) at position **C** by way of a climbing saw (**10.6**) using the climbing cylinder (**1**).

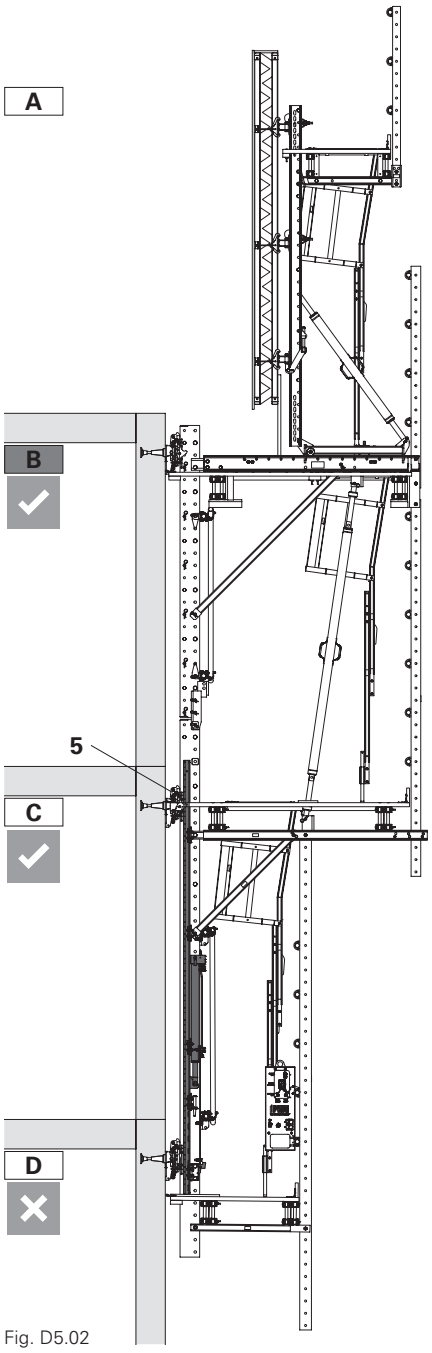


Fig. D5.02

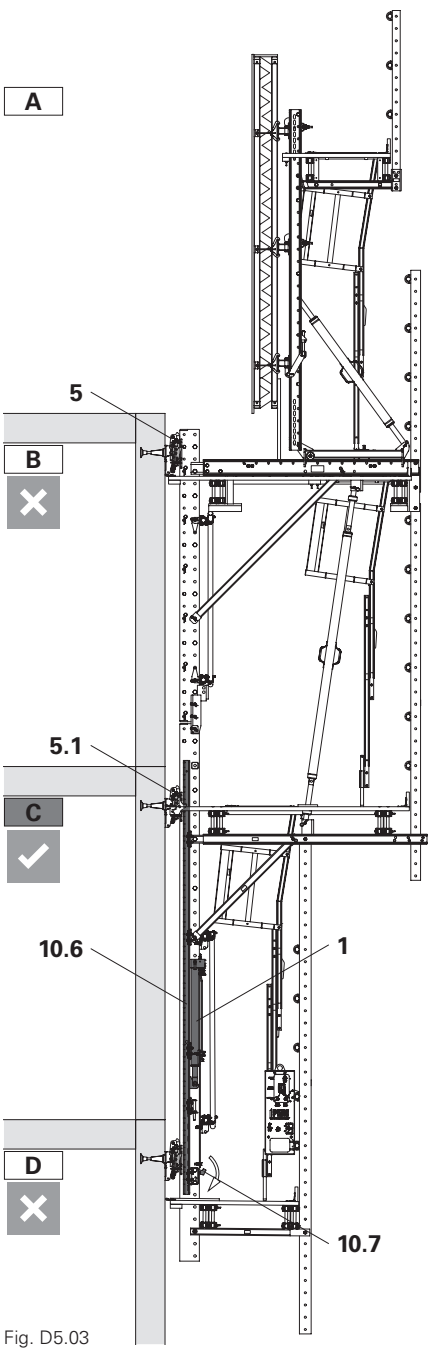


Fig. D5.03

6. Retract Climbing Cylinder RCS MAX 75 (**1**) until the vertical load pawl (**10.7**) swivels into the climbing saw (**10.6**).
   → The climbing unit drops down a little.
   → The vertical load pawl (**10.7**) transfers the load.
7. Adjust the formwork to the correct height using the height adjustment unit.
8. Fit the leading ties at position **A** on the formwork.

(Fig. D5.04)

Load situation
- The vertical load pawl (**10.7**) is activated.
- The load is resting on Climbing Shoe RCS (**5**) at position **C** by way of a climbing saw (**10.6**) using the vertical load pawl (**10.7**).

Are the formwork and leading tie in the correct position?

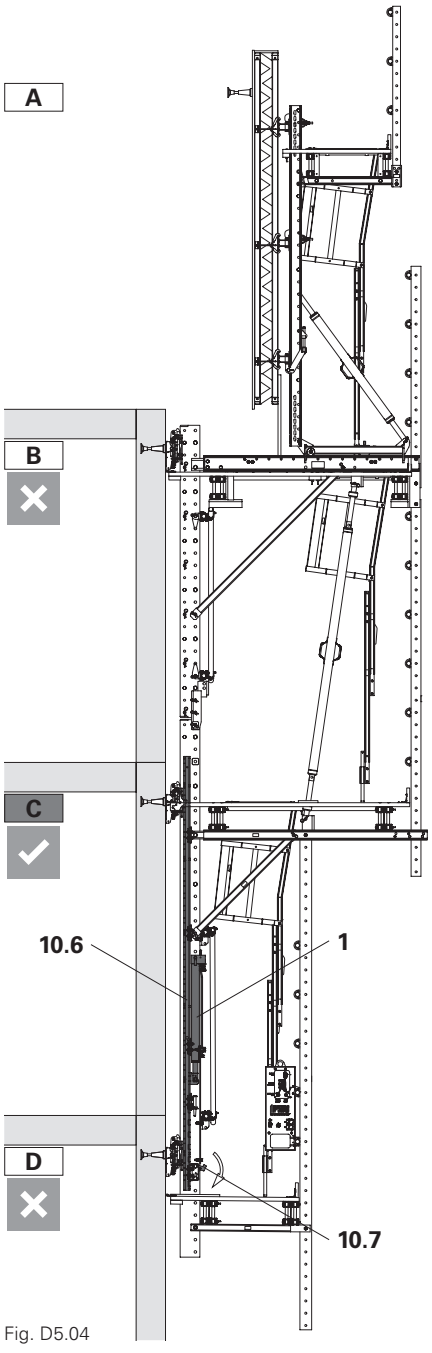


Fig. D5.04

- Refer to the "RCS MAX Driving Rail and Hydraulics" assembly instructions.
- Observe the instructions for use of the hydraulic unit.
- Follow the Instructions for Assembly and Use for the formwork system.
- Note the explanation of the vertical load pawl, see Section "E7 Vertical load pawl in driving rail" on page 148.

Step 1: Concreting

Initial situation

- Climbing Shoe RCS is mounted at position **D**.
- Reinforcement installed and formwork shuttered.
- The primary formwork is in position and anchored.
- The height of the formwork is readjusted:
  - The mounting provided by the vertical load pawl (**10.7**) on the Climbing Shoe RCS (**5**) at position **C** brings about a change in the distance between the Climbing Rail RCS and the upper edge of the concreting section h_0. (Fig. E1.01a)
- Leading tie fastened to formwork.

Load situation

- The vertical load pawl (**10.7**) is activated. The load rests on the Climbing Shoe RCS (**5**) at position **C** with the climbing saw (**10.6**).

Climbing Shoes RCS	
Position A:	–
Position B:	Deactivated
Position C:	Activated
Position D:	Deactivated

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Concreting

1. Pour concrete into the formwork from a safe working position, e.g. the concreting platform.
2. Compact the concrete.
3. Allow concrete to cure until the required load-bearing capacity is achieved.

(Fig. E1.01)

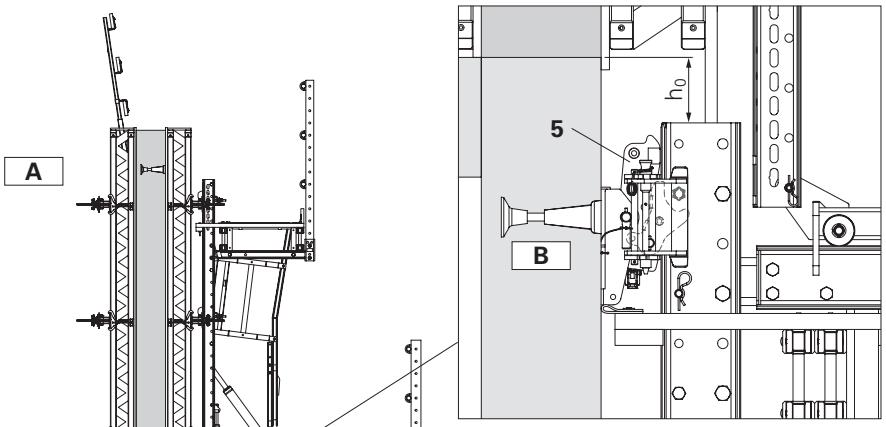


Fig. E1.01a

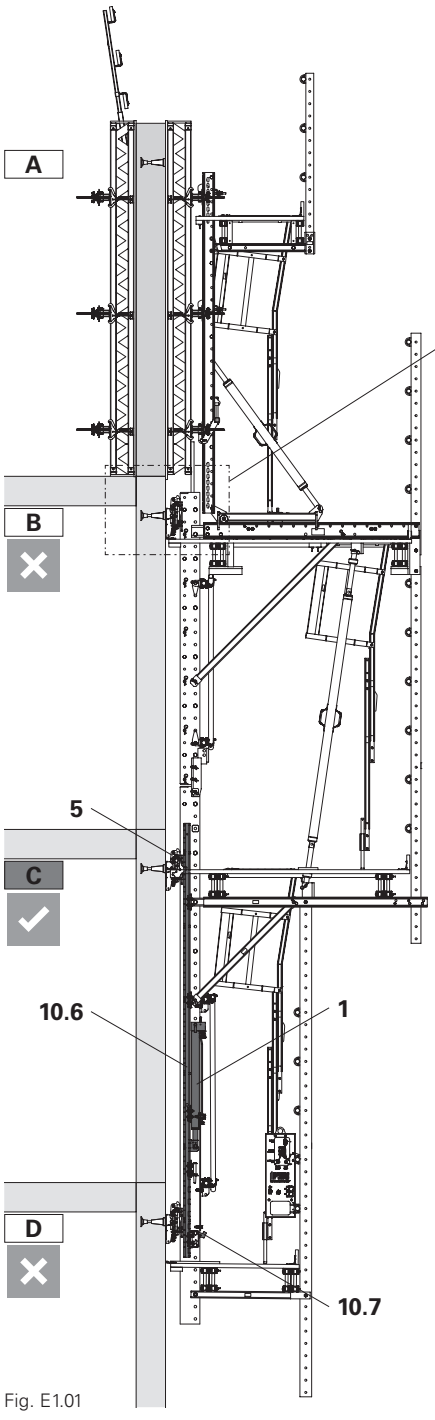


Fig. E1.01

Step 2: Deshuttering

Do not deshutter the formwork until the concrete has reached the necessary strength.

Deshuttering

1. Remove the formwork ties and connections.
2. Remove the Advancing Screw M30 ga (**80**) on the leading ties at position **A**.
3. Move the Carriage RCS (**24.3**) off the wall.

(Fig. E1.02)

Dismantling the lower climbing shoe

1. Take the weight off the Climbing Shoe RCS (**5**) at position **D**.
   - Alternative 1: Relieve the climbing shoe with the help of the Excentric Lever RCS, see Section "Excentric Lever RCS" on page 138.
   - Alternative 2: Relieve the climbing shoe with the help of the adjustable spindle (**111**), see Section "Adjusting the framework" on page 136.
2. Open the guiding skids of the Climbing Shoe RCS (**5**) at position **D**.

(Fig. E6.01 + E6.02)

3. Remove the Climbing Shoe RCS (**5**) and Wall Shoe RCS (**6**) at position **D**.
4. Unscrew Climbing Cone-2 DW 20 M30 ga (**76**) from the wall, see Section "Removing climbing cones" on page 140.
5. Close the tie hole with KK Concrete Cone M30-80/52 (**64**), see Section "Removing climbing cones" on page 140.
6. Complete dismantling.
   - Alternative 1: Remove the Excentric Lever RCS.
   - Alternative 2: Set Climbing Rail RCS and Driving Rail RCS C MAX with adjustable spindle (**111**) again or spindle back to previous inclination setting, as this setting fits the threading of the next section.

(Fig. E1.02)

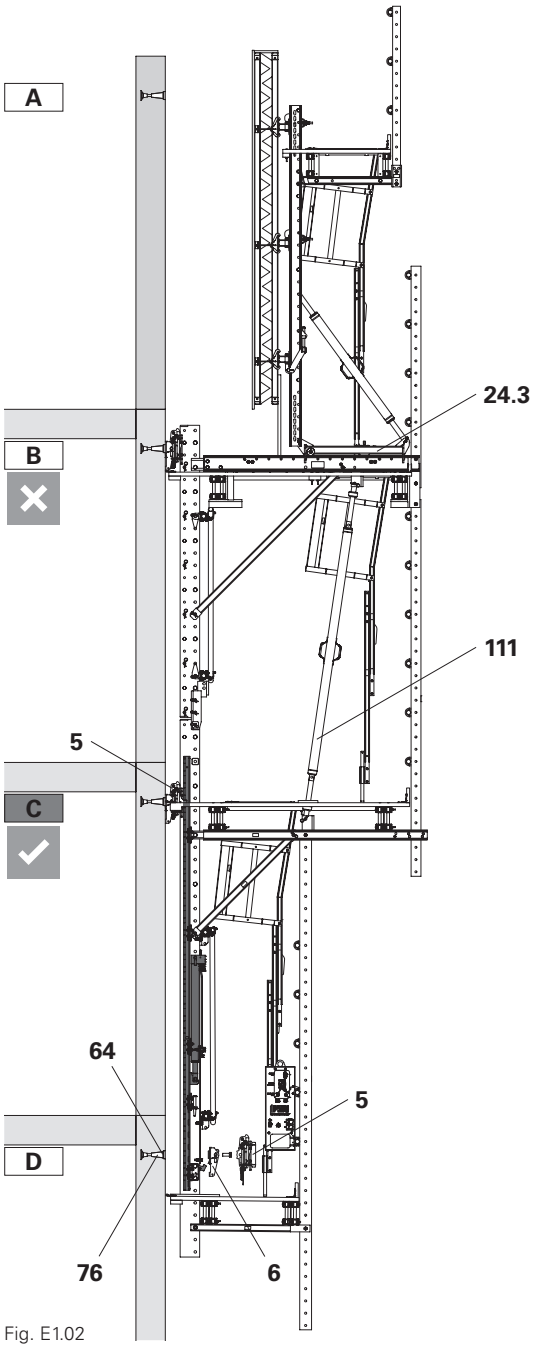


Fig. E1.02

Step 3: Transfer to position B

- Reuse the climbing shoes (**5**) from position **D** at position **A**.
- The spacers in the Climbing Rail RCS (**9**) are the Spacers RCS M20-82 (**9.1**) or the additionally installed Pin Sets RCS Max (**84**).
  In the following description, only the designation Spacers RCS M20-82 (**9.1**) is used.

(Fig. E1.03b)

Climbing strokes

- The stroke of the first climbing step in each case depends on the starting position of the climbing cylinder.
- The subsequent climbing strokes are full strokes of 90 cm and effectively result in climbing steps of 75 cm each.
- The height of the last climbing stroke depends on the concreting section height and is normally only a partial stroke.
- Finally, a small partial lift is performed to transfer the load to the Climbing Shoe RCS (**5**) at position **C** using the vertical load pawl.

Note

Thereafter, the climbing cylinders of all climbing units to be climbed are operated together.

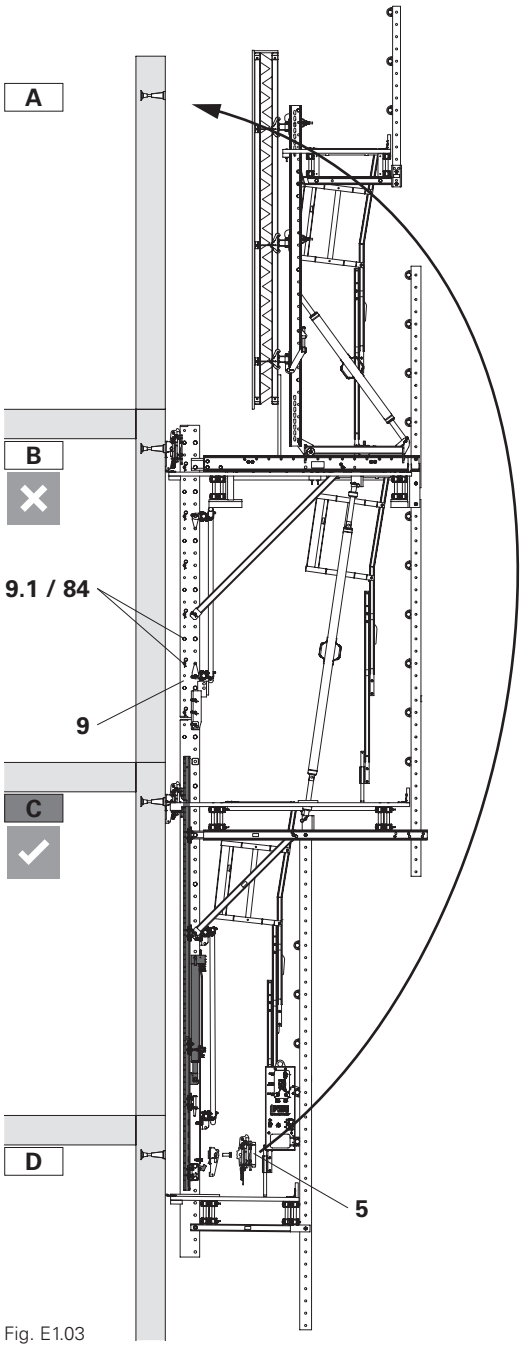


Fig. E1.03

Load situation
- The vertical load pawl (**10.7**) is activated.
- The load rests on the Climbing Shoe RCS (**5**) at position **C** with the climbing saw (**10.6**).

Climbing Shoes RCS

Position A:	–
Position B:	Deactivated
Position C:	Activated
Position D:	–

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Climbing
1. Activate the Climbing Shoes RCS (**5**) at position **B**.
2. Extend all Climbing Cylinders RCS MAX 75 (**1**) completely.
   → The climbing unit is raised up.
   → The climbing pawl (**5.1**) at position **B** engages beneath a spacer (**9.1**) of the climbing rail.
3. Deactivate all vertical load pawls (**10.7**).

(Fig. E1.04)

Load situation
- The vertical load pawl (**10.7**) is deactivated.
- The load is resting on Climbing Shoe RCS (**5**) at position **C** by way of a climbing saw (**10.6**) using the climbing cylinder (**1**).

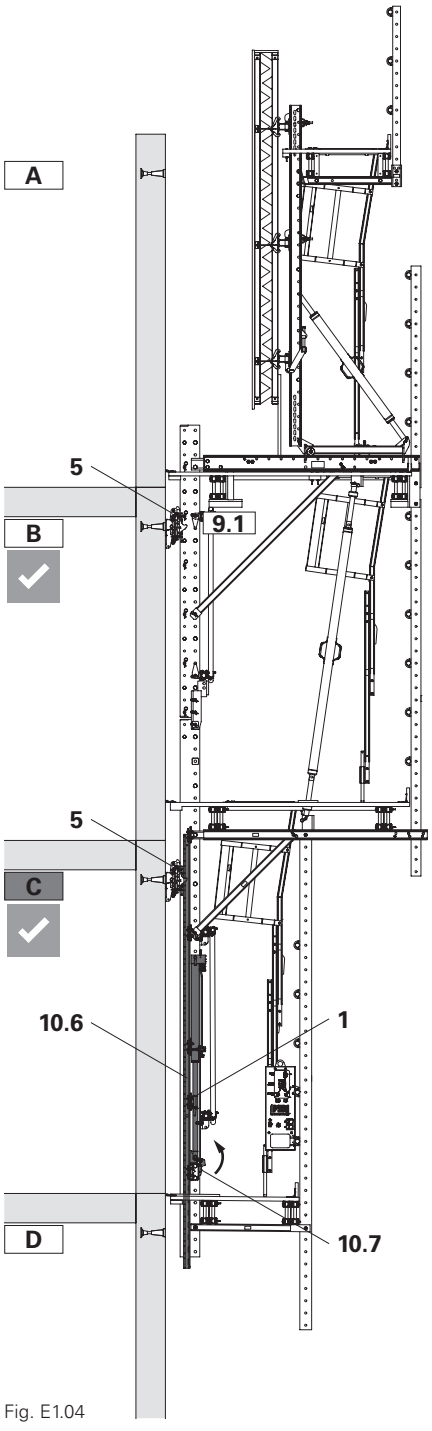


Fig. E1.04

Relocation

4. Retract Climbing Cylinder RCS MAX 75 (**1**).
   → The climbing unit drops down by a few cm.
   → The spacer (**9.1**) of the Climbing Rail RCS (**9**) rests on the climbing pawl of the Climbing Shoe RCS (**5**) at position **B**.
5. Retract the Climbing Cylinder RCS MAX 75 (**1**) completely.
   → The climbing unit does not move.
   → The climbing saw (**10.6**) moves upwards.

(Fig. E1.05)

Load situation

- The vertical load pawl (**10.7**) is deactivated.
- The load rests on the Climbing Shoe RCS (**5**) at position **B** by way of the spacer (**9.1**) of the Climbing Rail RCS (**9**).

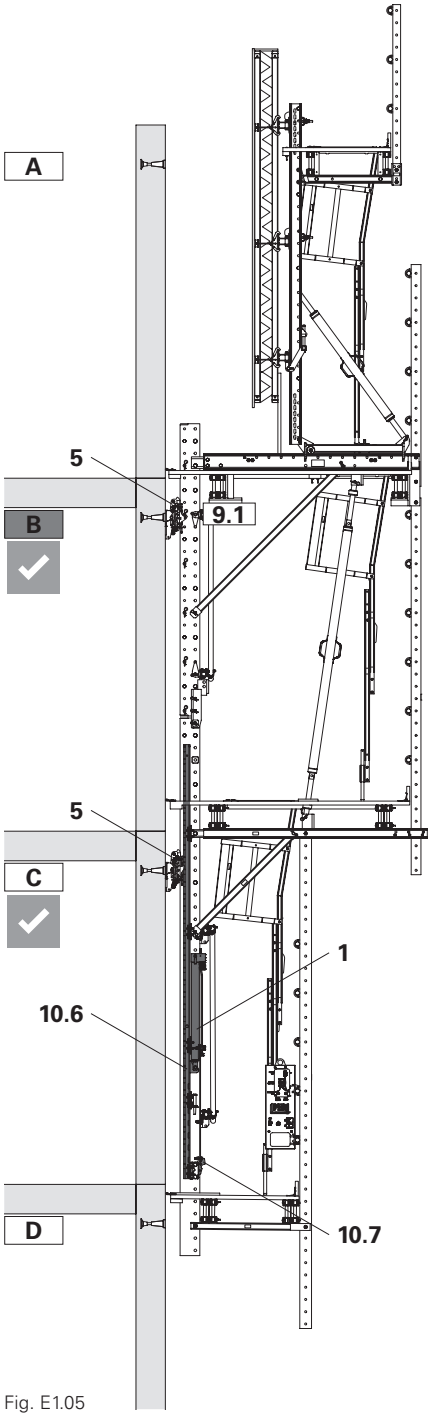


Fig. E1.05

Step 4: Climbing procedure

Load situation
■ The vertical load pawl (**10.7**) is deactivated. ■ The load rests on the Climbing Shoe RCS (**5**) at position **B** by way of the spacer (**9.1**) of the Climbing Rail RCS (**9**).

Climbing Shoes RCS	
Position A:	–
Position B:	Activated
Position C:	Activated
Position D:	–

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Climbing

1. Extend the Climbing Cylinder RCS MAX 75 (**1**) until the climbing saw (**10.6**) rests on the climbing pawl of the Climbing Shoe RCS (**5**) at position **C**.
   → The climbing unit does not move.

(Fig. E1.06)

2. Extend the Climbing Cylinder RCS MAX 75 (**1**) completely.
   → The climbing unit moves upwards.
   → The climbing saw (**10.6**) transfers the load.
3. Retract the Climbing Cylinder RCS MAX 75 (**1**) until the spacer (**9.1**) of the Climbing Rail RCS (**9**) is resting on the climbing pawl of the Climbing Shoe RCS (**5**) at position **B**.
   → The climbing unit travels downwards.

(Fig. E1.07)

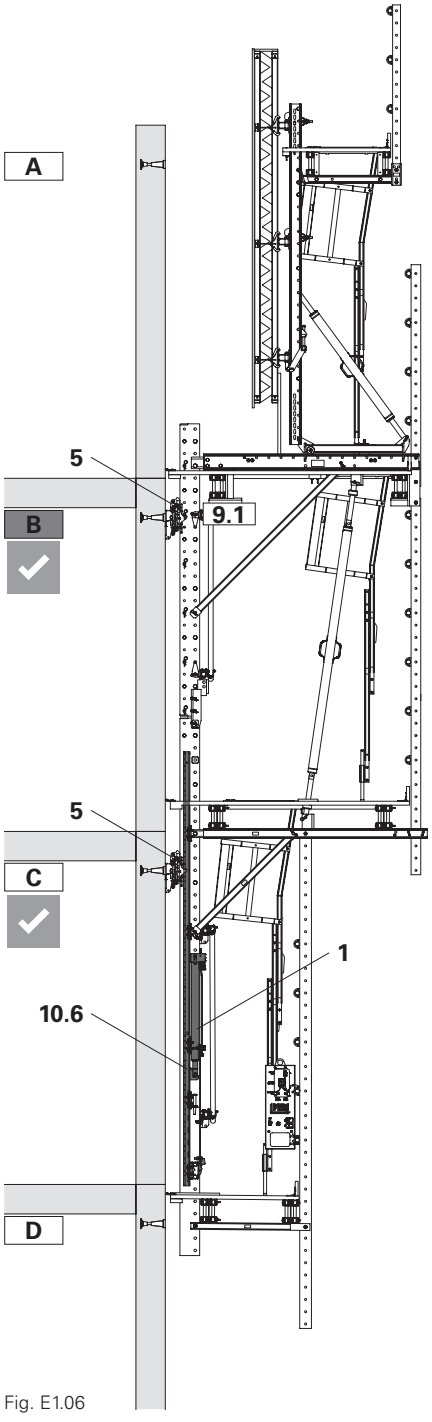


Fig. E1.06

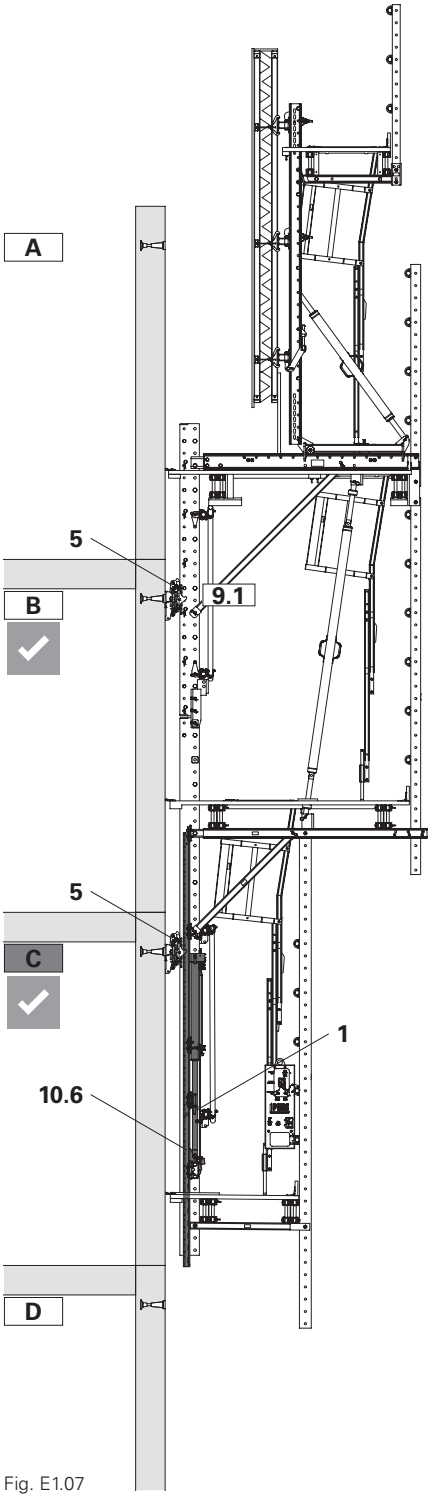


Fig. E1.07

4. Retract the Climbing Cylinder RCS MAX 75 (**1**) completely.
   → The climbing unit does not move.
   → The climbing saw (**10.6**) moves upwards.

(Fig. E1.08)

Load situation
- The vertical load pawl (**10.7**) is deactivated.
- The load rests on the Climbing Shoe RCS (**5**) at position **B** by way of the spacer (**9.1**) of the Climbing Rail RCS (**9**).

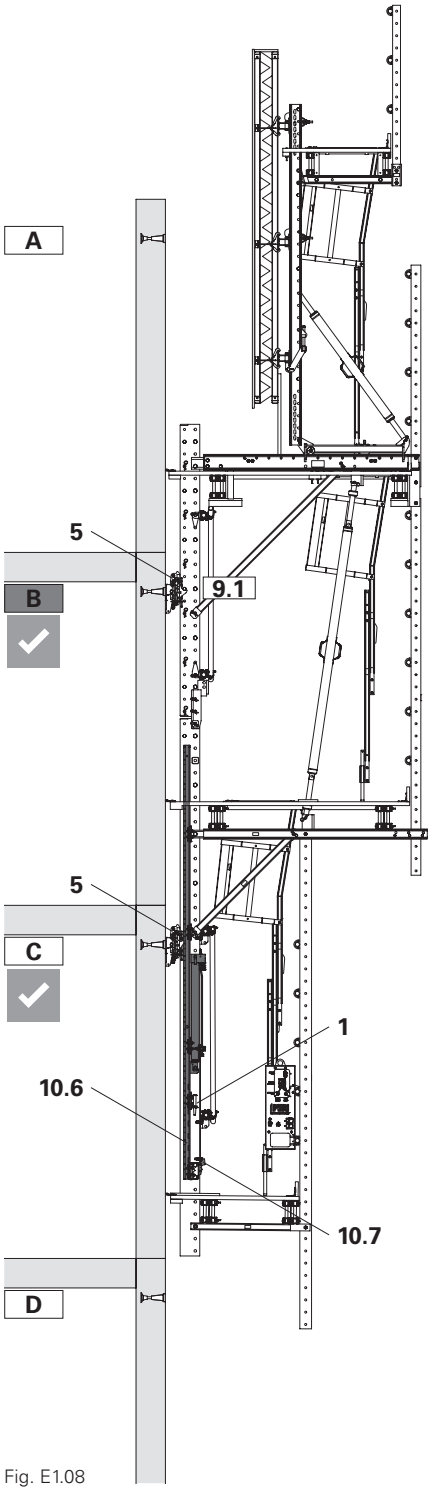


Fig. E1.08

Step 5: Fit the climbing shoe

Removed climbing shoes and wall shoes from position **D** are used at position **A**.

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Assembly

1. Repeat the climbing cylinder retraction and extension process until the work platform is 1.20 m to 1.50 m below position **A**.
2. Fit the wall shoe (**6**) and climbing shoe (**5**) at position **A**, see Section "Attaching the unit" on page 111.
3. Activate the Climbing Shoe RCS (**5**) at position **A**.
4. Close the guiding skids of the Climbing Shoe RCS (**5**) at position **A**.

(Fig. E1.09)

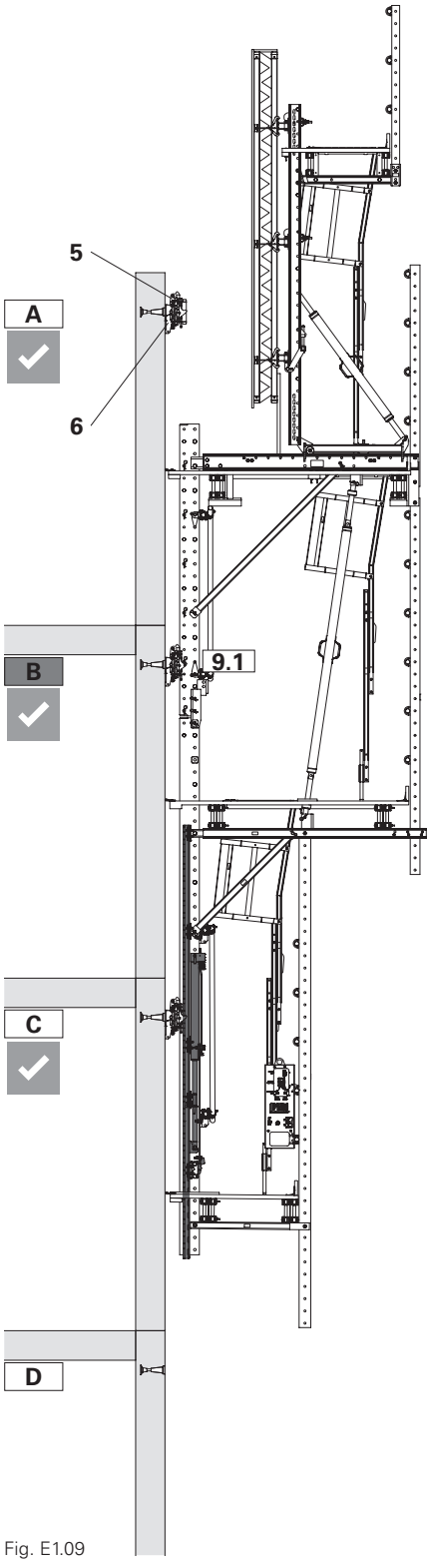


Fig. E1.09

Step 6: Thread into climbing shoe A

To make it easier to thread into the Climbing Shoe RCS (**5**) at position **A**, the Climbing Rail RCS (**9**) has a slight bend in the direction of the structure relative to the Driving Rail RCS (**10**).

Load situation
■ The vertical load pawl (**10.7**) is deactivated. ■ The load rests on the Climbing Shoe RCS (**5**) at position **B** by way of the spacer (**9.1**) of the Climbing Rail RCS (**9**).

Climbing Shoes RCS	
Position A:	Activated
Position B:	Activated
Position C:	Activated
Position D:	–

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Threading

1. Climb the climbing unit until the climbing rail (**9**) is approx. 10 cm below the climbing shoe (**5**) at position **A**.
2. Adjust the inclination of the Climbing Rail RCS (**9**) by turning the adjustable spindle (**111**), see Section "Adjusting the framework" on page 136.
   → The flanges of the Climbing Rail RCS (**9**) align with the guiding skids of the Climbing Shoe RCS (**5**) at position **A**.

(Fig. E1.10)

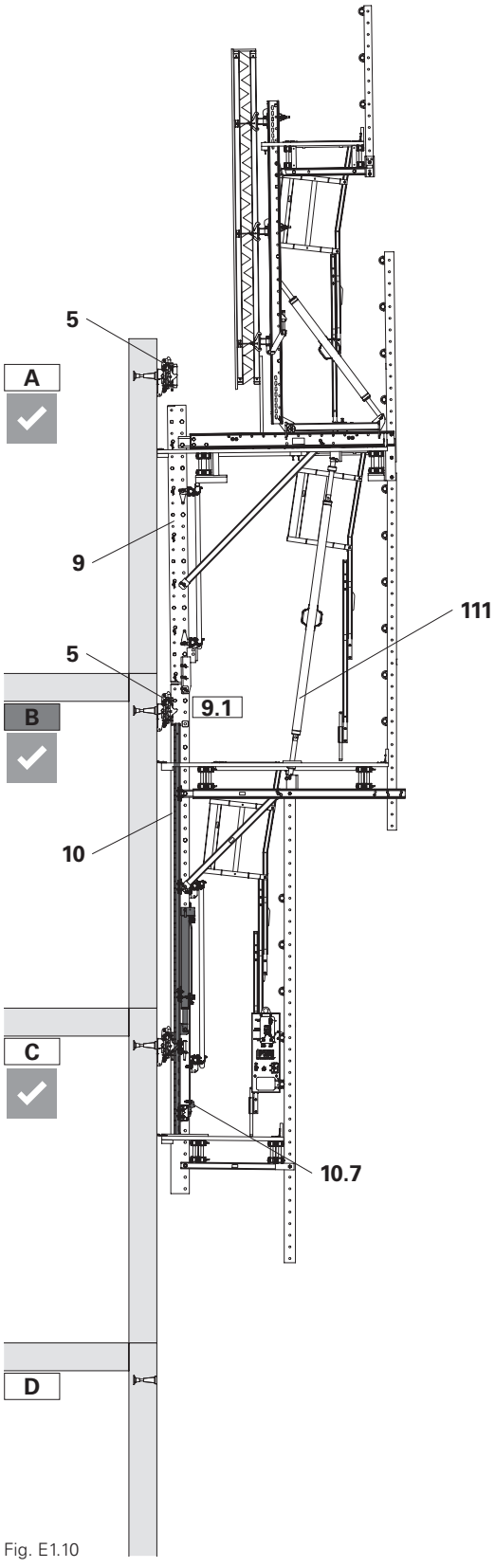


Fig. E1.10

The final stroke is not usually a full stroke.

3. Extend the Climbing Cylinder RCS MAX 75 (**1**) until the climbing pawl (**5.1**) of the Climbing Shoe RCS (**5**) engages at position **A** below the uppermost spacer (**9.1**) in the Climbing Rail RCS (**9**).
   → Climbing Rail RCS (**9**) threads into Climbing Shoe RCS (**5**) at position **A**.

(Fig. E1.11)

Load situation
- The vertical load pawl (**10.7**) is deactivated.
- The load is resting on Climbing Shoe RCS (**5**) at position **C** by way of a climbing saw (**10.6**) using the Climbing Cylinder RCS MAX 75 (**1**).

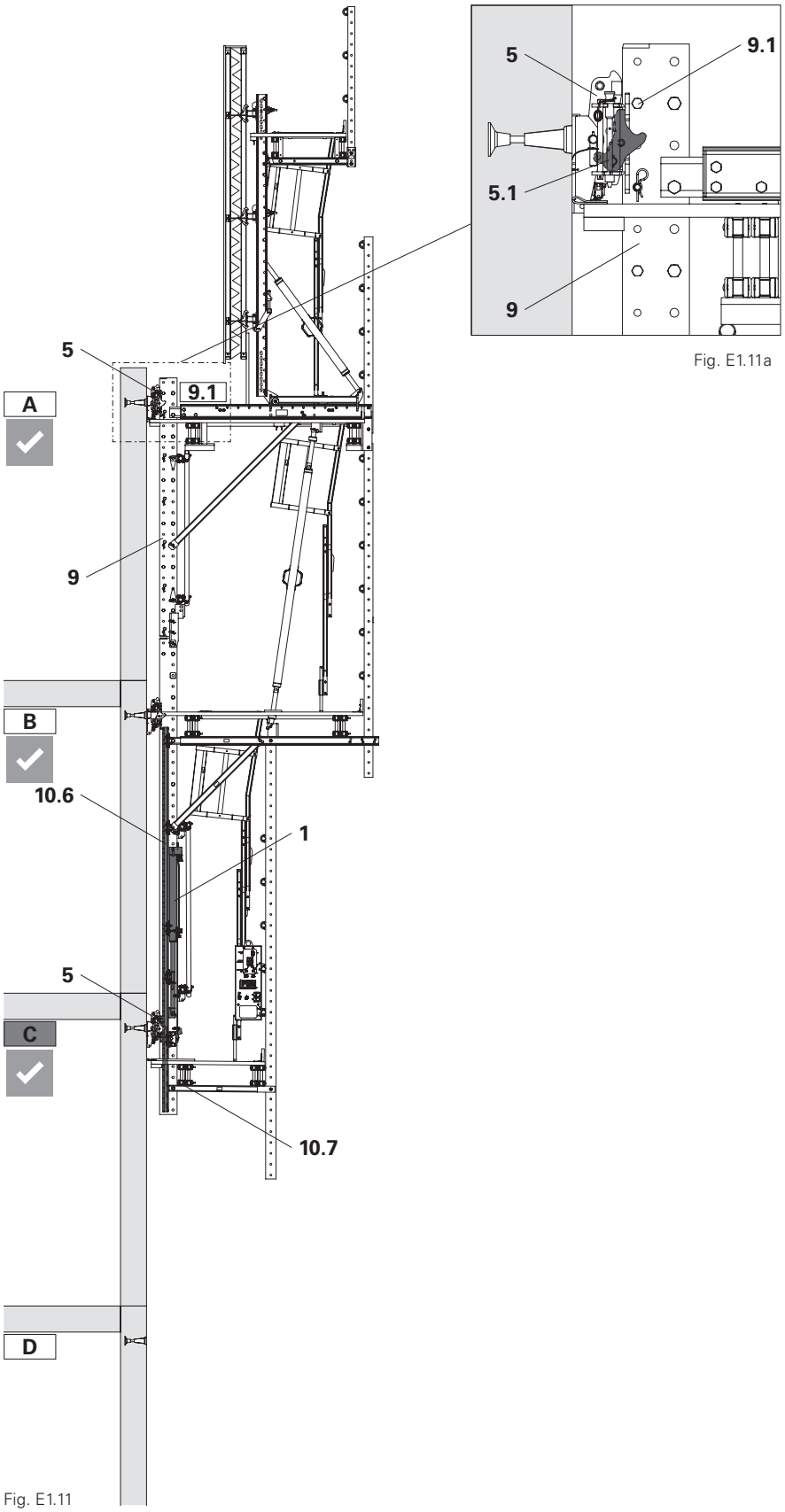


Fig. E1.11a

Fig. E1.11

Step 7: Transfer to position A

Load situation
- The vertical load pawl (**10.7**) is deactivated.
- The load is resting on Climbing Shoe RCS (**5**) at position **C** by way of a climbing saw (**10.6**) using the Climbing Cylinder RCS MAX 75 (**1**).

Climbing Shoes RCS

Position A:	Activated
Position B:	Activated
Position C:	Activated
Position D:	–

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Relocating

1. Retract the Climbing Cylinder RCS MAX 75 (**1**) until the uppermost spacer (**9.1**) of the Climbing Rail RCS (**9**) is resting on the climbing pawl (**5.1**) of the Climbing Shoe RCS (**5**) at position **A**.
   → The climbing unit lowers by a few centimetres.
2. Retract the Climbing Cylinder RCS MAX 75 (**1**) completely.
   → The climbing unit does not move.
   → The climbing saw (**10.6**) moves upwards.

(Fig. E1.12)

Load situation
- The vertical load pawl (**10.7**) is deactivated.
- The load rests on the Climbing Shoe RCS (**5**) at position **A** by way of the spacer (**9.1**) of the Climbing Rail RCS (**9**).

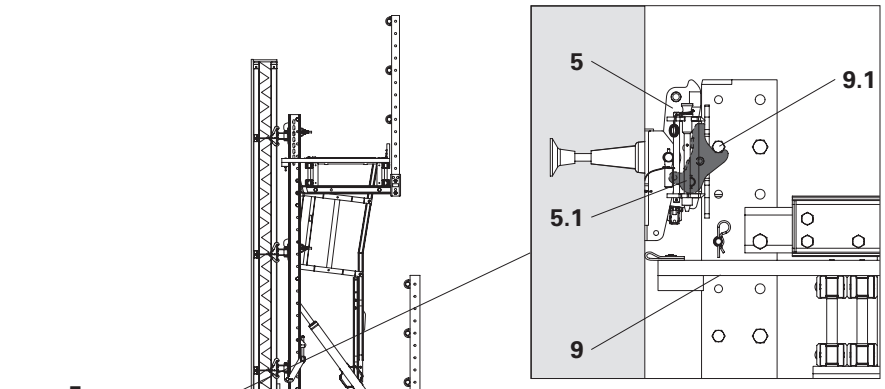


Fig. E1.12a

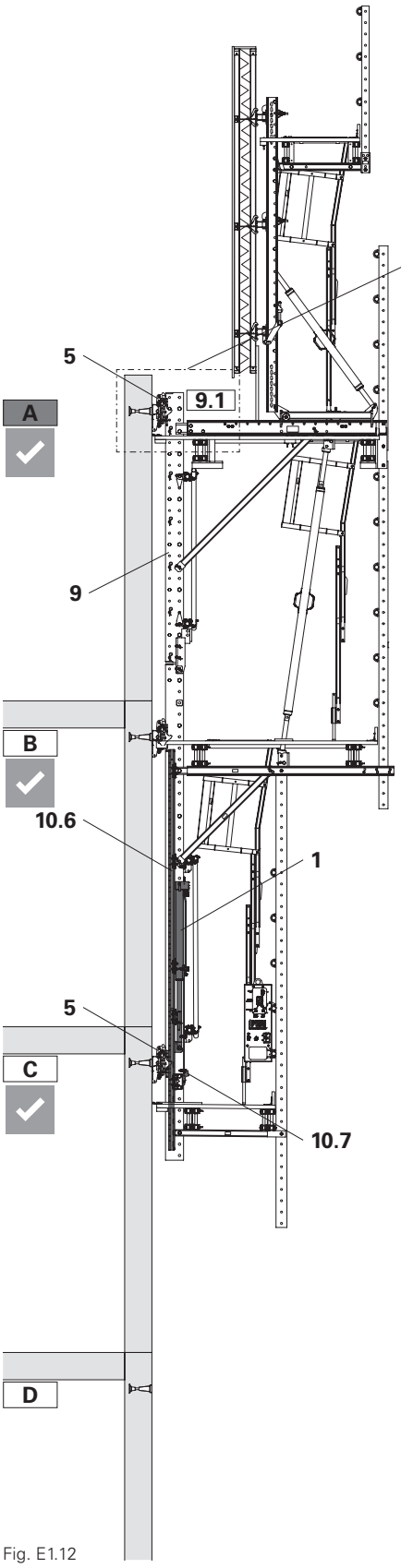


Fig. E1.12

Step 8: Transfer to position B

Load situation
- The vertical load pawl (**10.7**) is deactivated.
- The load rests on the Climbing Shoe RCS (**5**) at position **A** by way of the spacer (**9.1**) of the Climbing Rail RCS (**9**).

Climbing Shoes RCS

Position A:	Activated
Position B:	Activated
Position C:	Activated
Position D:	–

⚠ Risk of injury to hands!
Ensure that the climbing unit is stationary.

Relocating

1. Activate vertical load pawl (**10.7**).
2. Deactivate the Climbing Shoes RCS (**5**) at position **C**.

(Fig. E1.13)

3. Extend the Climbing Cylinder RCS MAX 75 (**1**) until the vertical load pawl (**10.7**) swivels into the climbing saw (**10.6**).
   → The climbing unit is raised by a few cm.
4. Deactivate the climbing pawl (**5.1**) of the Climbing Shoe RCS at position **A**.
5. Retract Climbing Cylinder RCS MAX 75 (**1**) until it stops and the vertical load pawl (**10.7**) swivels into the climbing saw (**10.6**).
   → The climbing unit drops down a little.

(Fig. E1.14)

Load situation
- The vertical load pawl (**10.7**) is activated.
- The load is resting on Climbing Shoe RCS (**5**) at position **B** by way of a climbing saw (**10.6**) using the vertical load pawl (**10.7**).

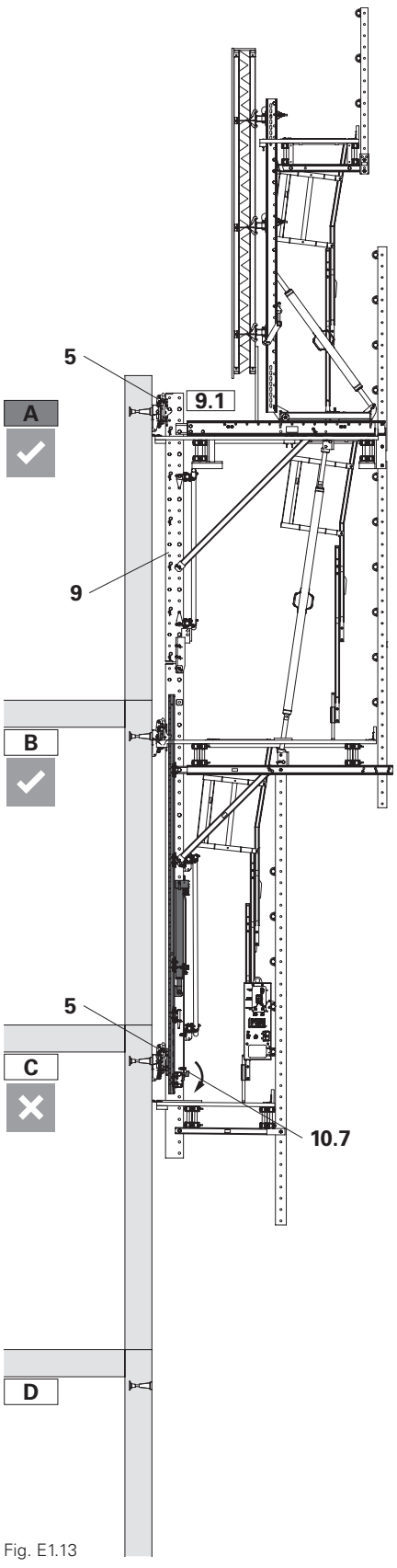


Fig. E1.13

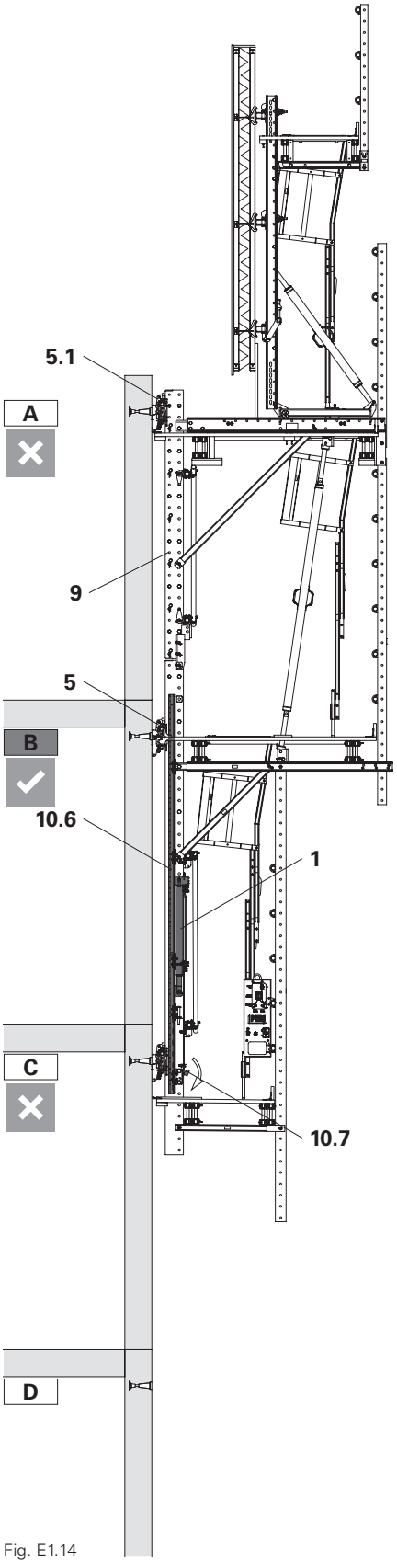


Fig. E1.14

Step 9: Shuttering

The designations of the positions **A** – **D** change and describe the initial situation once again.

Passage 1	Passage 2	Passage 3
–	–	A''
–	A'	B''
A	B'	C''
B	C'	D''
C	D'	–
D	–	–

Prerequisite

- Climbing Shoe RCS, Wall Shoe RCS and Climbing Cone-2 DW 20 M30 ga at position **D** have not yet been removed.
- Ceiling is concreted or inner platform is in position.

Shuttering

1. Fit the leading ties at position **A** on the formwork.
2. Use Carriage RCS (**24.3**) to move the formwork towards the wall while pretensioning it somewhat.
3. Install reinforcement.
   – Include windows in the reinforcement for the leading ties.
4. Position the closing formwork.
5. Anchor the formwork and connect the formwork units.

(Fig. E1.15)

Note

Check the height of the formwork and the leading ties.

Restart the climbing sequence from "Step 1: Concreting".

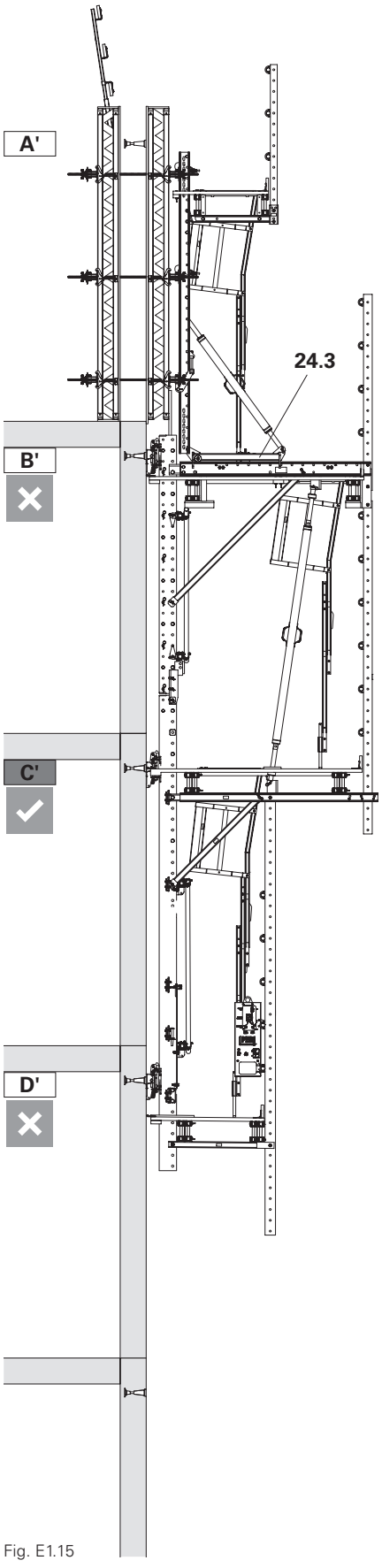


Fig. E1.15

Operating the carriage

Components

24.3 Carriage RCS
96 Carriage Crank Lever AF 19

Preparation
Remove all connections, e.g. couplings, from the formwork units of the adjacent climbing units.

Operation
1. Turn the actuator (**24.6**) with the Carriage Crank Lever SW19 RCS (**96**) and thereby move the Carriage RCS (**24.3**) towards or away from the wall.
   – The max. travel distance is approx. 90 cm.
   – During the moving process, operate both carriages of a platform at the same time.

(Fig. E2.01)

When retracting:
Have all advancing screws, formwork ties and connections to the formwork units of the adjacent climbing units been removed?
When closing:
Are the leading ties fixed to the formwork? Is the formwork tensioned somewhat against the previous concreting section and thus tight?

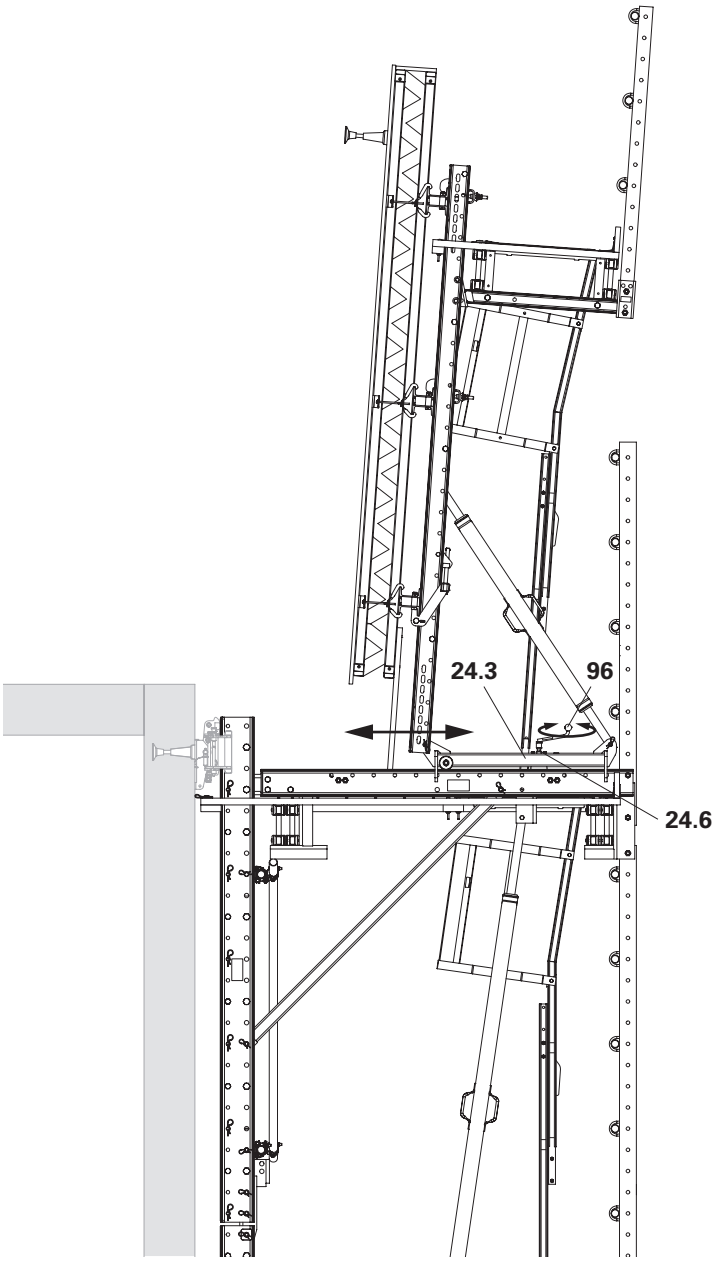


Fig. E2.01

Adjusting the formwork

Components

55 Steel Waler Universal SRU U120
56 Waler Fixation U100 – U120
57 Adjusting Unit Carriage RCS
89 Heavy Duty Spindle SLS 140-240

Ensuring the formwork is vertical

1. Hold the spirit level against the formwork and move the formwork into a vertical position by turning the Heavy-Duty Spindle SLS 140-240 (**89**). (Fig. E2.02)

Is the formwork flush with the wall?

Adjusting the height:

1. Loosen the Waler Fixation U100 – U120 (**56**) slightly.
2. Set the formwork to the exact height by turning the Adjusting Unit Carriage RCS (**57**).
3. Tighten the Waler Fixation U100 – U120 (**56**) again.
4. Check the height and position of the leading tie.

When moving the formwork horizontally, it may be necessary to detach the ladder platform from the formwork.

Moving the formwork horizontally:

1. Loosen the Waler Fixation U100 – U120 (**56**) slightly.
2. Move the formwork against the Steel Waler Universal SRU U120 (**55**) with a pry bar.
3. Tighten the Waler Fixation U100 – U120 (**56**).
4. Check the height and position of the leading tie (aligned above the climbing tie of the previous concreting section).

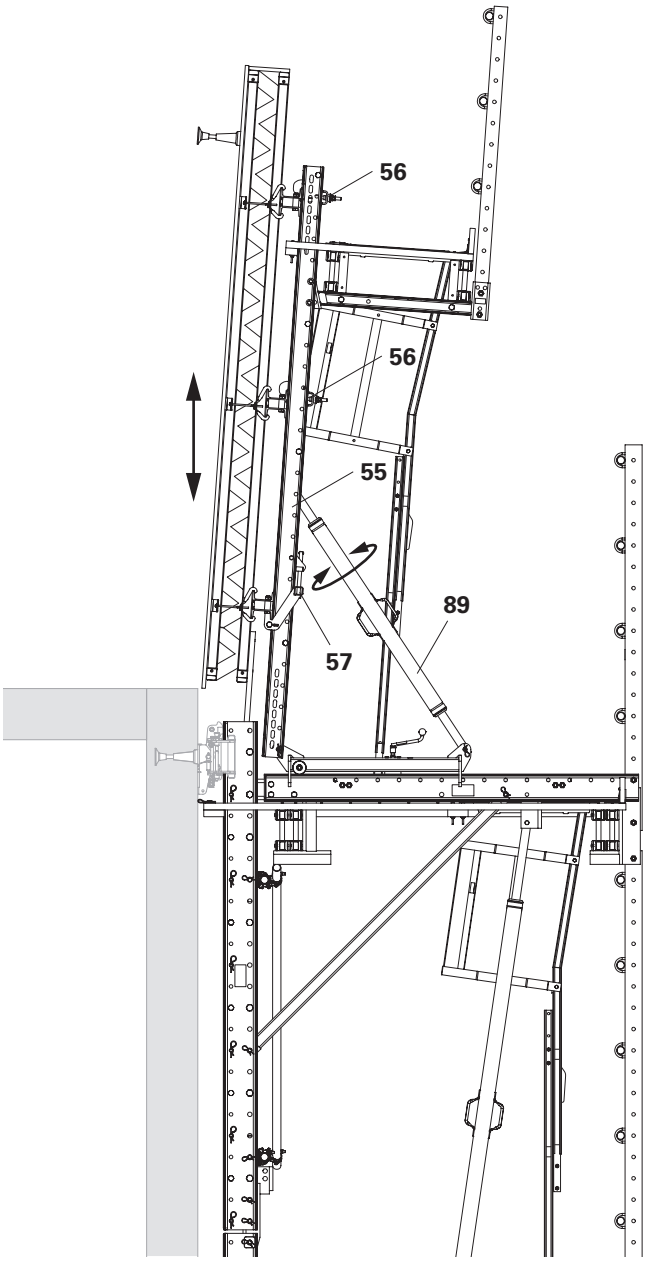


Fig. E2.02

Releasing the leading tie

Components

80 Advancing Screw M30 ga
82 Anchor Positioning Stud M30 ga

Preparation
Remove all connections, e.g. couplings, from the formwork units of the adjacent climbing units.

Standard: Advancing screw

Removal
1. Release Positioning Screws M30 (**80**) and remove. (Fig. E3.01)
2. Detach the formwork from the wall with the Heavy Duty Spindle SLS 140-240.
3. Deshutter the formwork with the Carriage RCS.

Alternatively: Positioning disc

Removal
1. Straighten wire nails Ø 3 x 80 (**75**).
2. Detach the formwork from the wall with the Heavy Duty Spindle SLS 140-240.
   → Pull wire nails Ø 3 x 80 (**75**) out of the formlining.(Fig. E3.02)
3. Deshutter the formwork with the Carriage RCS.
4. Bend wire nails Ø 3 x 80 (**75**) in order to protect hands.
5. Remove Anchor Posit. Stud M30 ga (**82**) using Allen key AF 14. (Fig. E3.03)

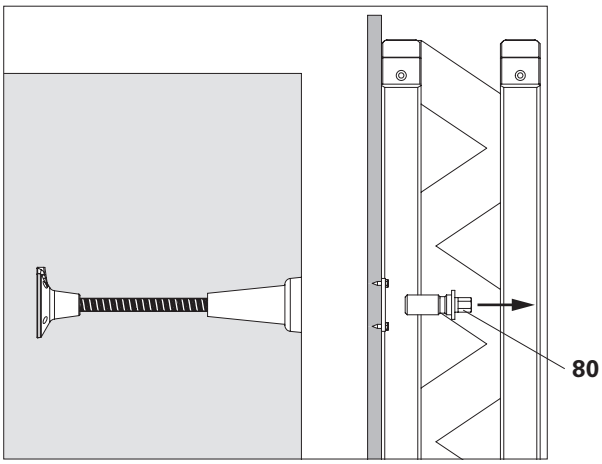


Fig. E3.01

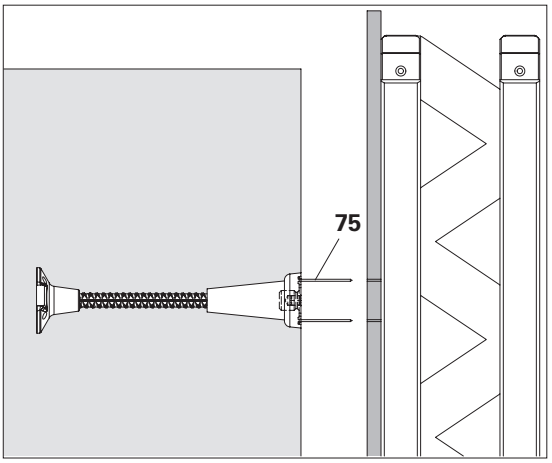


Fig. E3.02

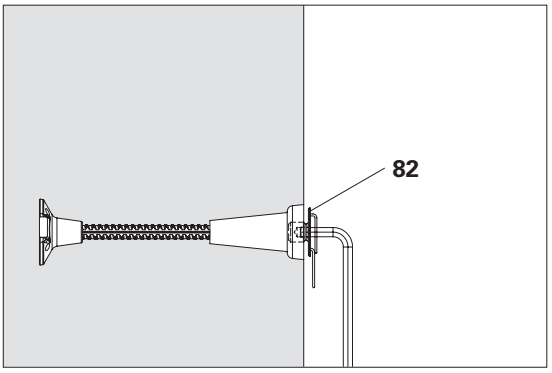


Fig. E3.03

Fitting the suspension

Components

5 Climbing Shoe RCS
6 Wall Shoe RCS
6.1 Locking pin Ø 25 x 240, SKS
6.2 Cotter Pin 5/1
76 Climbing Cone-2 DW 20 M30 ga
81 Screw ISO 4017-M30x070-8.8-ga

Fitting the wall shoe

1. Pull cotter pin 5/1 (**6.2**) out of locking pin Ø 25 x 240, SKS (**6.1**) and pull locking pin Ø 25 x 240, SKS (**6.1**) out of the Wall Shoe RCS (**6**).
2. Park cotter pin 5/1 (**6.2**) in the locking pin Ø 25 x 240, SKS (**6.1**).
3. Screw the Wall Shoe RCS (**6**) onto the Climbing Cone-2 DW 20 M30 ga (**76**) with the hex. screw M30 x 70-8.8 (**81**). Tightening torque 260 Nm.

(Fig. E4.01 + E4.01a)

Is the screw tightened?

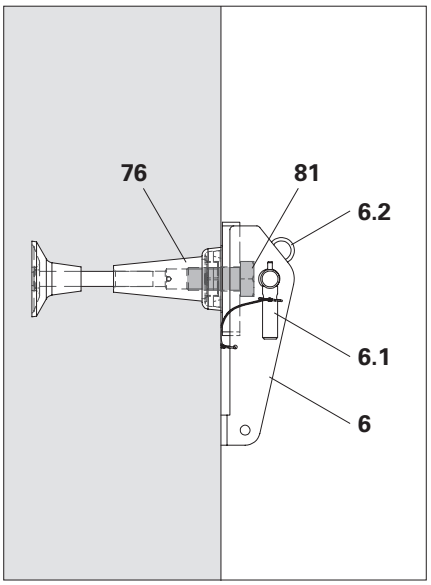


Fig. E4.01

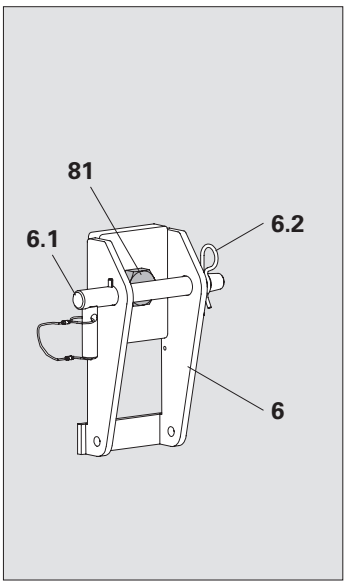


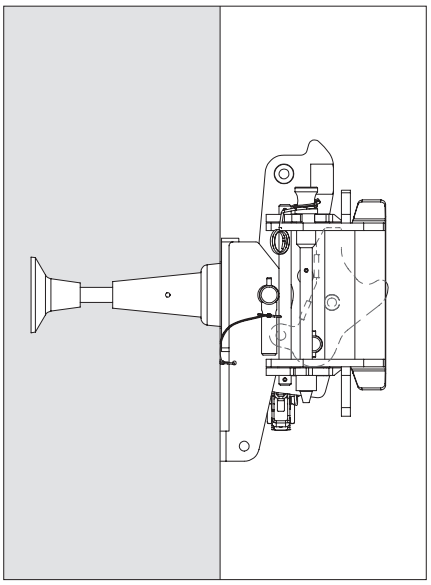
Fig. E4.01a

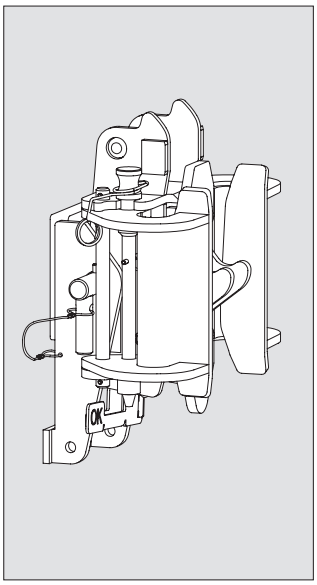
Installing the climbing shoe

1. Insert the Climbing Shoe RCS (**5**) into the Wall Shoe RCS (**6**).
2. Insert locking pin Ø 25 x 240, SKS (**6.1**) through the stringers of Wall Shoe RCS and Climbing Shoe RCS and secure with cotter pin 5/1 (**6.2**).
3. Depending on the situation, deactivate or activate the climbing pawl (**50.1**) in the climbing shoe, or open or close the guiding skids (**50.2**), see Section "E6 Operating the climbing shoe" on page 144.

(Fig. E4.02 + E4.02a)

- Have all the locking pins (**50.3**) on the climbing shoes been pushed all the way down?
- Is the locking pin (**51.1**) secured with a cotter pin?
- Is the climbing shoe aligned completely vertically?
- Has the Visual Aid Climbing Shoe RCS been mounted on the climbing shoe?


Fig. E4.02


Fig. E4.02a

Adjusting the framework

Components

9 Climbing Rail RCS
10 Driving Rail RCS C MAX
111 Adjustable spindle

The inclination of the Climbing Rail RCS (**9**) can be adjusted in relation to the Driving Rail RCS C MAX (**10**). To do this, turn the adjustable spindle (**111**).

- This releases the lower climbing shoe and allows it to be removed.
- The climbing rail can be threaded into the next climbing shoe more easily when climbing.
- Wall projections or wall recesses can be climbed over.

- Maximum inclination between wall shoe and climbing shoe $\alpha \leq 4°$.
- Depending on the climbing rail and floor configuration, wall projections of up to 100 mm positive and negative are possible.

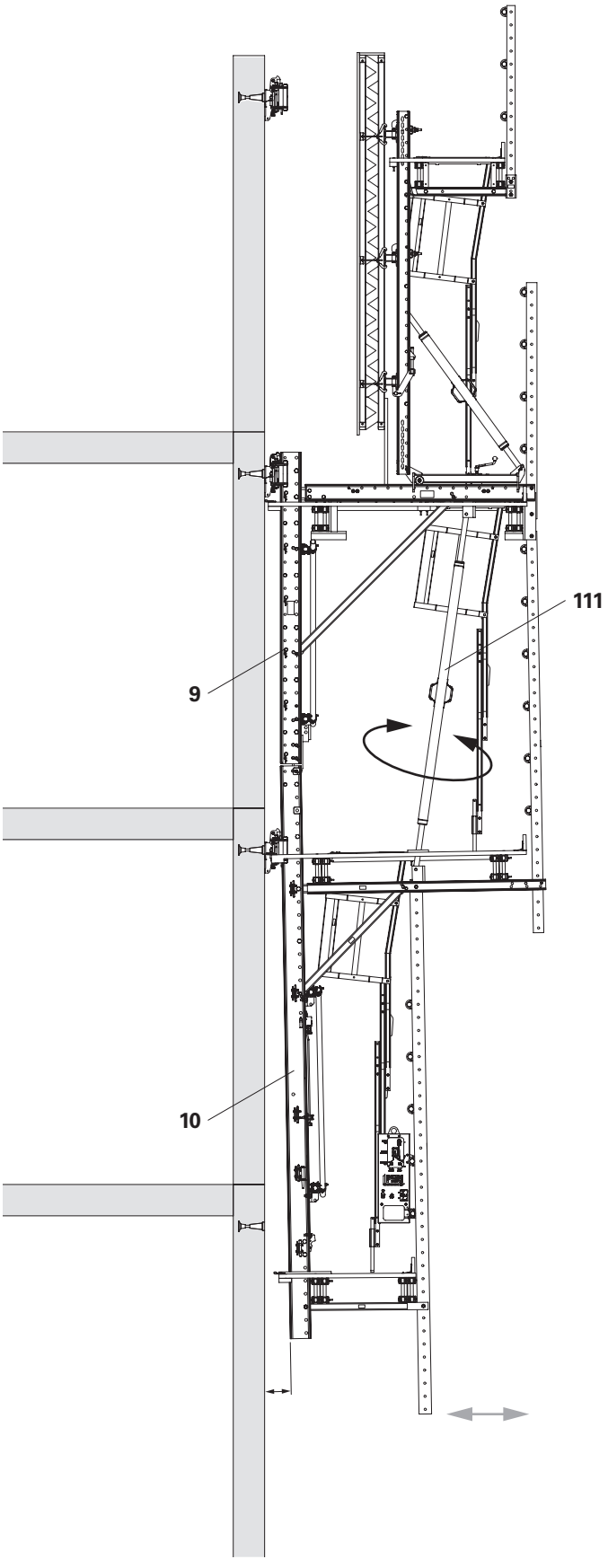


Fig. E4.03

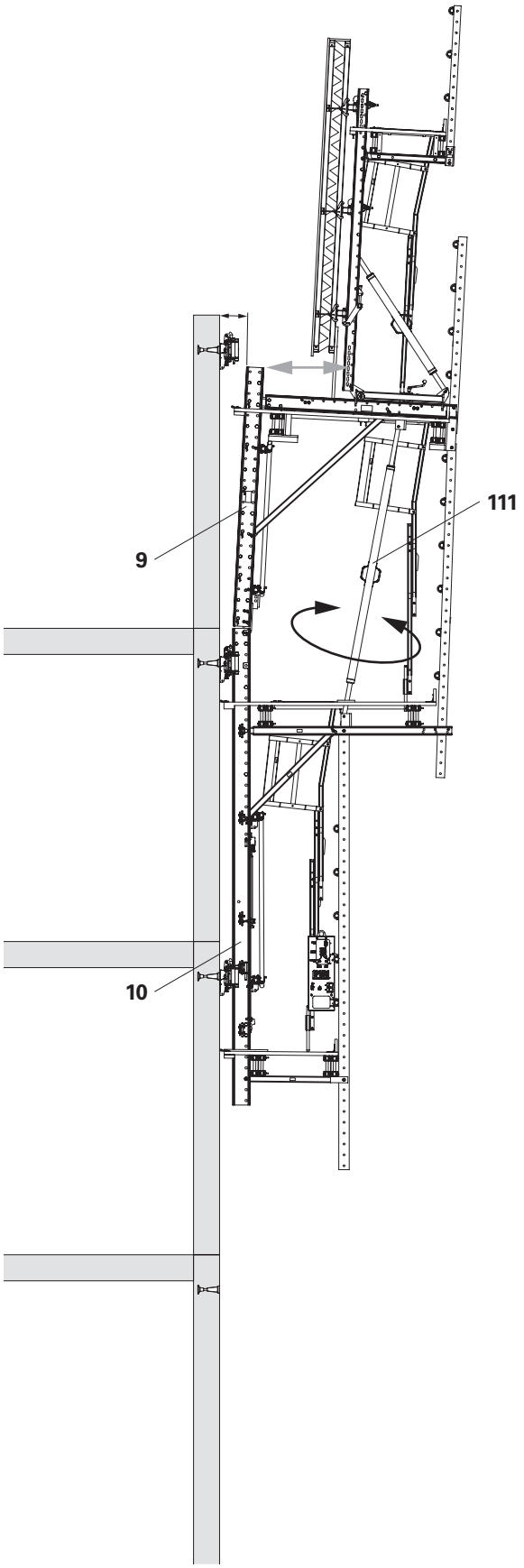


Fig. E4.04

Excentric Lever RCS

Components

5 Climbing Shoe RCS
6 Wall Shoe RCS
10 Driving Rail RCS C MAX
109 Excentric Lever RCS

Warning

- During assembly on the construction site, components may fall to the ground and hit people below! This can lead to serious injuries or even death.
  ⇒ Secure all components, e.g. with ropes.
  ⇒ Cordon off danger zones beneath the working areas.
- The climbing rail can spring back! As a result, body parts can become trapped and seriously injured.
  ⇒ Make sure that the excentric lever is fixed in place sufficiently by the friction.
  ⇒ Have a 2nd person hold the excentric lever tight.
  ⇒ Do not reach into clamping points.

Removal

1. Insert Excentric Lever RCS (**109**) between the wall and Driving Rail RCS C MAX (**10**) from the side.
   - For the climbing shoe to be removed, a distance of at least 55 cm from the wall shoe is required.
2. Push the climbing rail away from the wall with the excentric lever until the locking pin Ø 25 x 240, SKS (**6.1**) in the Wall Shoe RCS is disengaged. Have a 2nd person hold the excentric lever tight.

→ The climbing shoe is now released.
(Fig. E4.05 + C4.05a)

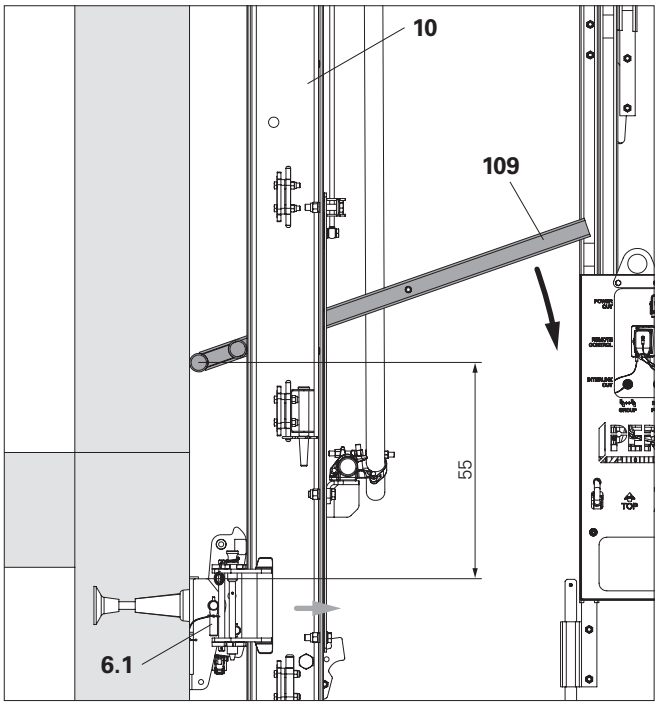
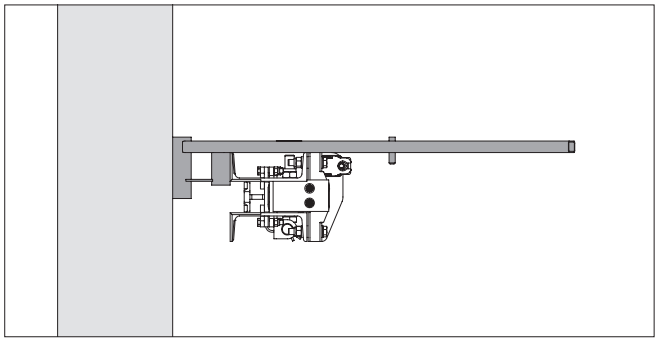


Fig. E4.05


Fig. E4.05a Top view

3. Open both guiding skids (**5.2**).
4. Deactivate the climbing pawl in the Climbing Shoe RCS.
5. Hold the Climbing Shoe RCS (**5**) tight and pull the locking pin Ø 25 x 240, SKS (**6.1**) out of the Wall Shoe RCS (**6**).
6. Pull the Climbing Shoe RCS upwards, then out to the side behind the climbing rail.
7. Re-insert locking pin Ø 25 x 240, SKS (**6.1**) and cotter pin 5/1. Hold the wall shoe tight and unscrew the Screw ISO 4017-M30x070-8.8-ga (**81**).
8. Pull the Wall Shoe RCS out to the side behind the climbing rail.
9. ⚠ Caution! The Excentric Lever RCS (**109**) flips upwards when lifted. Carefully lift the excentric lever until the climbing rail is disengaged.

(Fig. E4.06 + E4.06a)

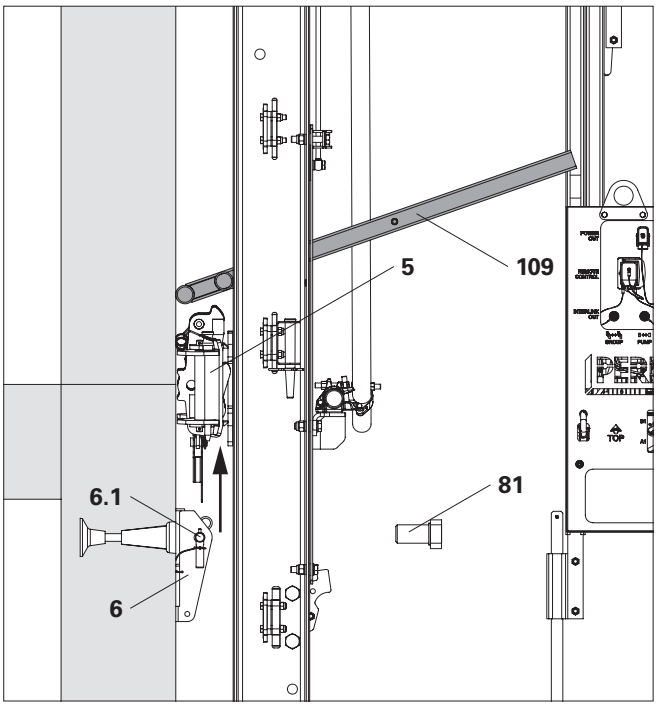


Fig. E4.06

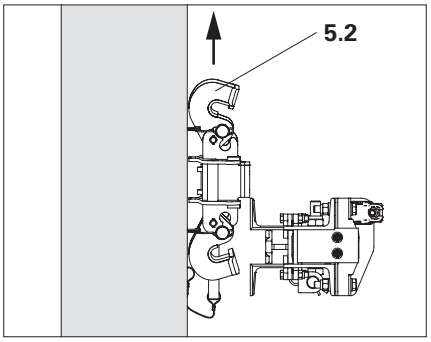


Fig. E4.06a Top view

Removing climbing cones

Components

64 KK Concrete Cone M30-80/52
76 Climbing Cone-2 DW 20 M30 ga
91 Screw-On Cone DW 26 M30

Removal

1. Loosen the reusable part of the anchoring with a ring wrench AF 46 and unscrew it completely:
   – Climbing Cone-2 DW 20 M30 ga (**76**).
   – Screw-On Cone DW 26 M30 (**91**).

(Fig. E4.07)

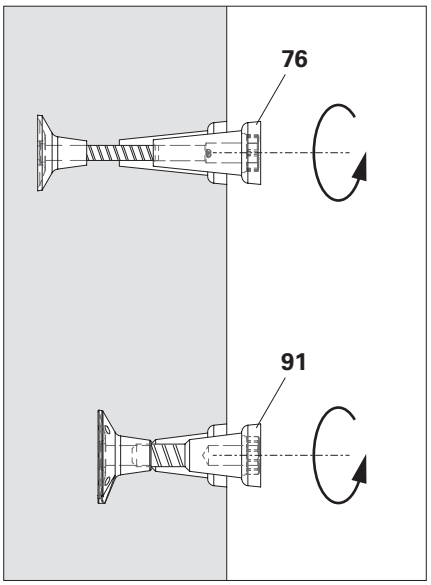


Fig. E4.07

If necessary:
Seal the tie hole with KK Concrete Cone M30-80/52 (**64**) and PERI sealing compound so it is watertight.

- See the Instructions for Assembly and Use for the concrete cones and concrete adhesive.

(Fig. E4.08)

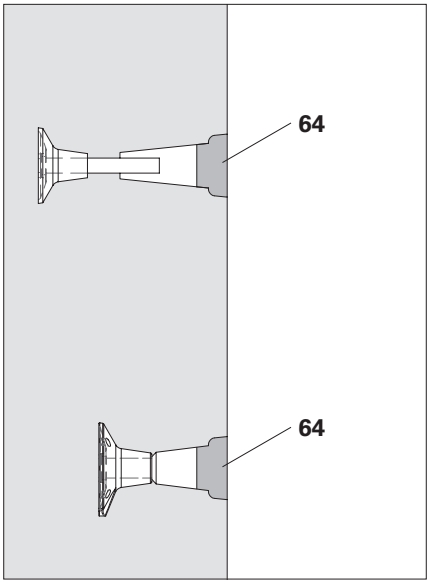


Fig. E4.08

E5 Mounting Visual Aid Climbing Shoe RCS

Do not attach the Visual Aid Climbing Shoe RCS to damaged or bent pawl locks, as this may impair the latching function of the climbing pawl.

The Visual Aid Climbing Shoe RCS (**93**) is mounted on the Climbing Shoe RCS (**5**) to display the status of the climbing pawl.

Components

5 Climbing Shoe RCS
5.4 Pawl lock
93 Visual Aid Climbing Shoe RCS
93.1 Bearing tube
93.2 Linch pin

Assembly

1. Remove the bearing tube (**93.1**) and the linch pin (**93.2**) of the Visual Aid Climbing Shoe RCS (**93**). (Fig. E5.01)
2. Slide the Visual Aid Climbing Shoe RCS (**93**) onto the pawl lock (**5.4**).
   – The recess in the Visual Aid Climbing Shoe RCS (**93**) and the pawl lock (**5.4**) must be aligned. (Fig. E5.02)
3. Insert the bearing tube (**93.1**) through the Visual Aid Climbing Shoe RCS (**93**) and pawl lock (**5.4**). (Fig. E5.03)

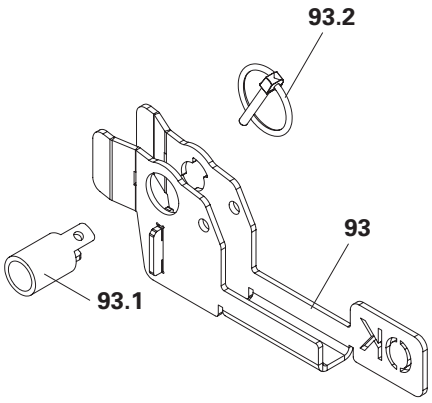


Fig. E5.01

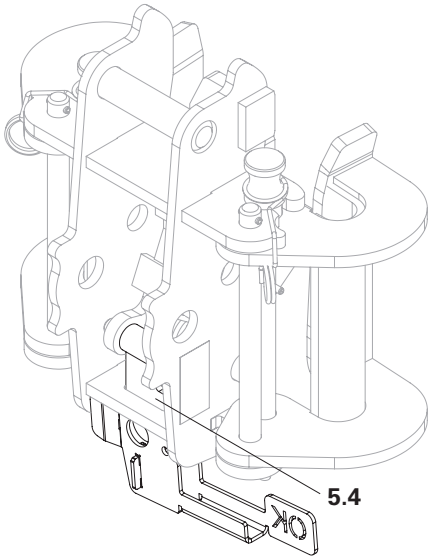


Fig. E5.02

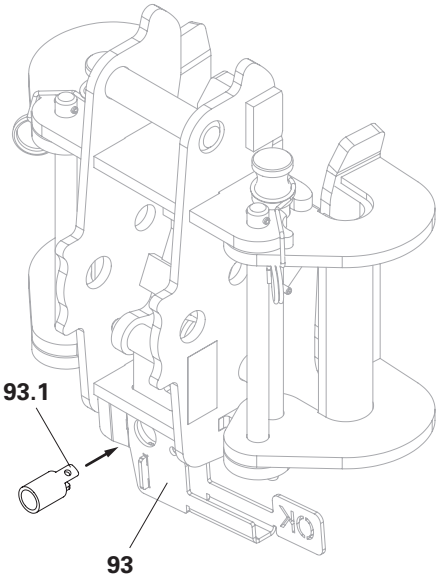


Fig. E5.03

4. Deactivate the climbing pawl by pulling on the Visual Aid Climbing Shoe RCS (**93**). (Fig. E5.04)
5. Insert the linch pin (**93.2**) through the holes in the bearing tube (**93.1**).

→ Assembly is completed. (Fig. E5.05)

Functional check:
When the climbing pawl (**5.1**) is pushed into the climbing shoe, the pawl lock (**5.4**) moves out of the shoe and the Visual Aid Climbing Shoe RCS (**93**) turns downwards automatically. When the climbing pawl is released, the pawl lock is pulled into the Climbing Shoe RCS automatically and the Visual Aid Climbing Shoe RCS returns to the horizontal position.

- If the Visual Aid Climbing Shoe RCS (**93**) does not reset itself automatically, then the spring in the Climbing Shoe RCS is defective.

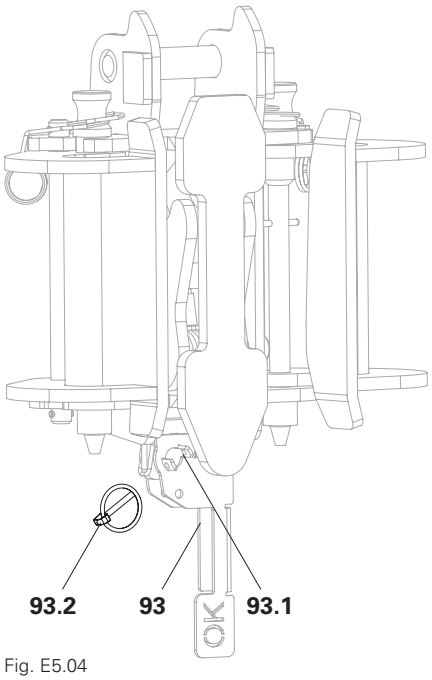


Fig. E5.04

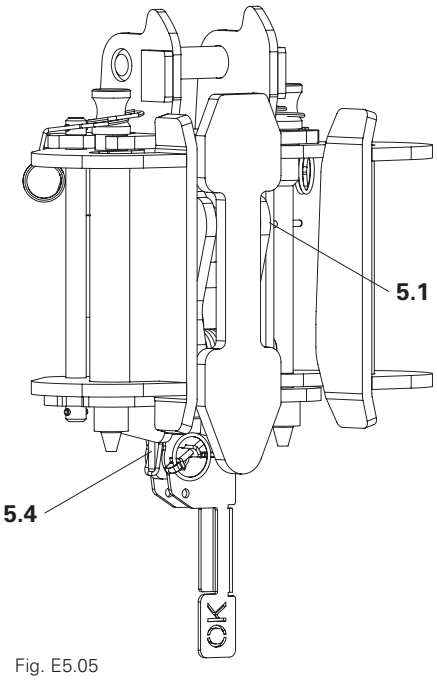


Fig. E5.05

E5 Mounting Visual Aid Climbing Shoe RCS

The Climbing Shoe RCS can be activated and deactivated with the Visual Aid Climbing Shoe RCS.

- To deactivate the Climbing Shoe RCS, swivel the Visual Aid Climbing Shoe RCS downwards. (Fig. E5.06)
- To activate it, swivel the Visual Aid Climbing Shoe RCS upwards again. (Fig. E5.07)

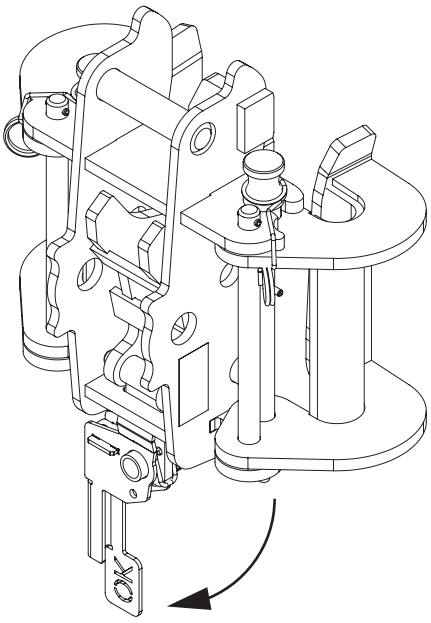


Fig. E5.06

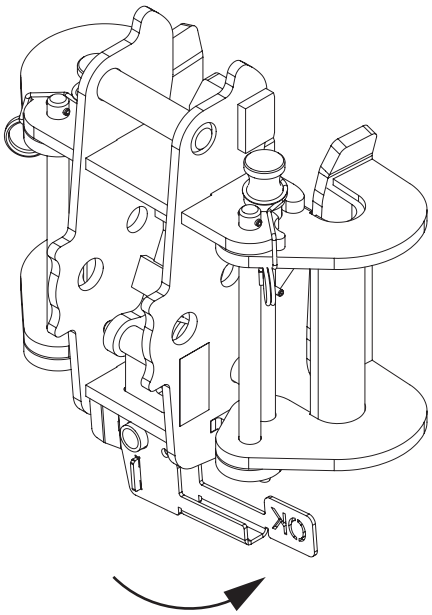


Fig. E5.07

Opening and closing the climbing shoe

The safety pins (**5.3**) hold the guiding skids (**5.2**) in a closed position, even in the event of vibrations. (Fig. E6.01)

Components

5 Climbing Shoe RCS
5.2 Guiding skids
5.3 Safety pins
5.6 Spring lock

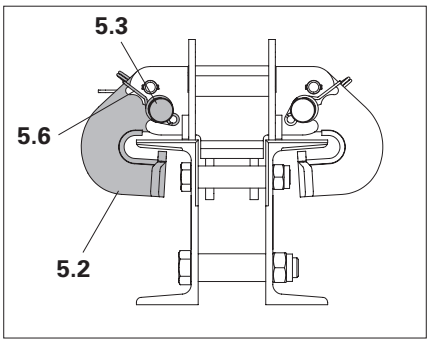


Fig. E6.01a

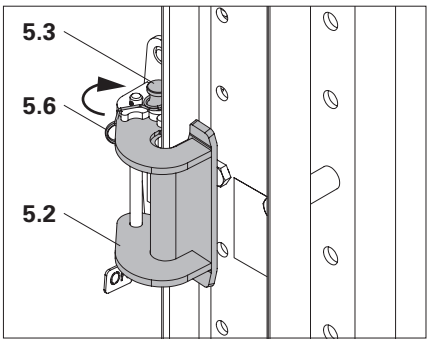


Fig. E6.01b

Opening the climbing shoe

1. Release the locking spring (**5.6**). For this, pull out the ring under the guiding skid (**5.2**). (Fig. E6.01)
2. Lift safety pin (**5.3**).
3. Fold up guiding skids (**5.2**). (Fig. E6.02)
4. Re-insert safety pins (**5.3**) in the opened position; place the locking spring (**5.6**) only loosely on the guiding skid. (Fig. E6.03)
5. Proceed in the same way with the other guiding skid. (not shown)

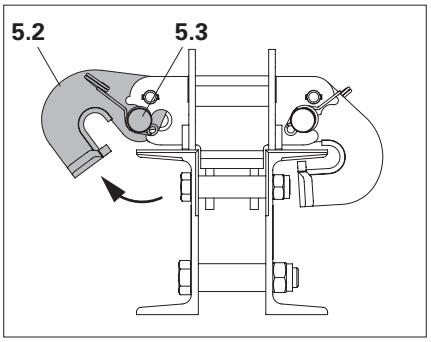


Fig. E6.02a

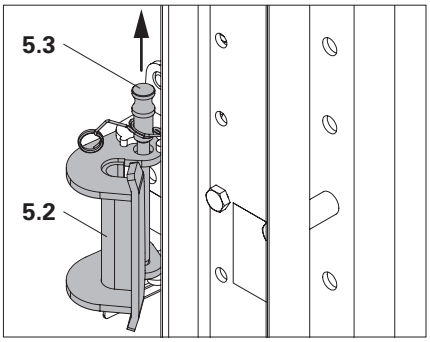


Fig. E6.02b

Open guiding skids make it easier to thread the climbing rail when climbing and allow the climbing rail to be inserted during initial assembly. To dismantle the climbing shoes, the guiding skids must be open.

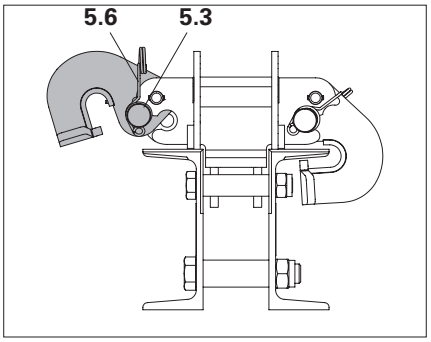


Fig. E6.03a

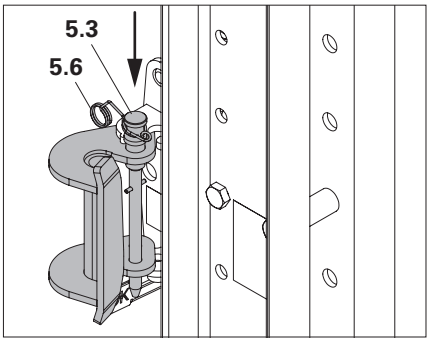


Fig. E6.03b

Closing the climbing shoe

1. Lift safety pin (**5.3**). (Fig. E6.04)
2. Fold guiding skid (**5.2**) forwards. (Fig. E6.05)
3. Fully re-insert the safety pin (**5.3**) in the closed position.
4. Fix the locking spring in place (**5.6**). For this, the ring is snapped into place under the guiding skid (**5.2**). (Fig. E6.06)
5. Proceed in the same way with the other guiding skid. (not shown)

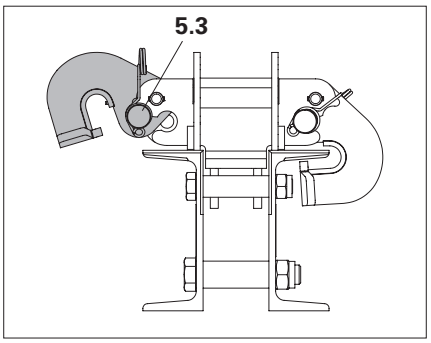


Fig. E6.04a

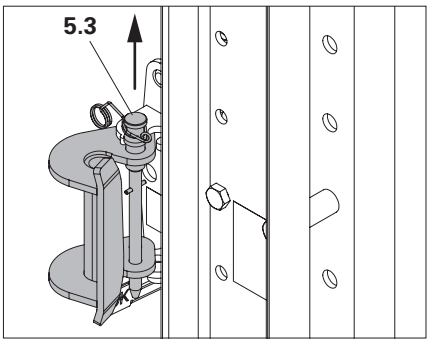


Fig. E6.04b

Are both locking pins completely inserted and is the locking spring fixed in position?

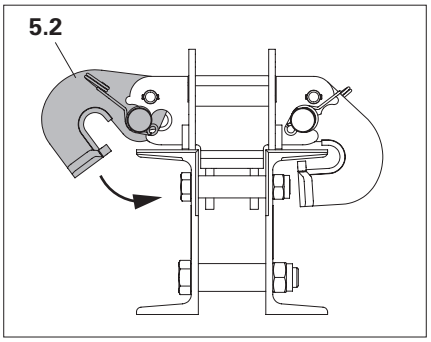


Fig. E6.05a

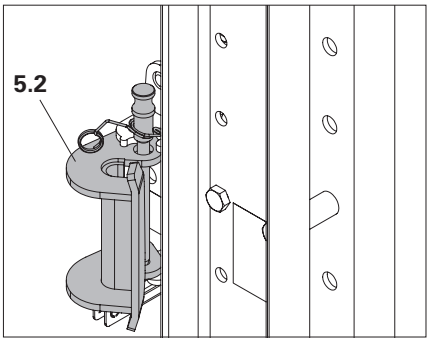


Fig. E6.05b

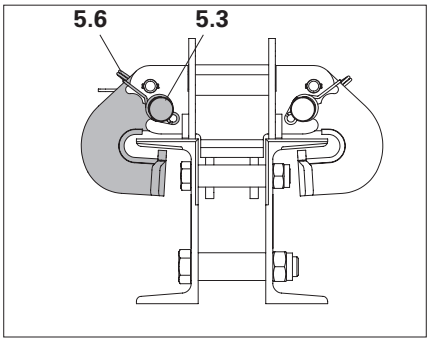


Fig. E6.06a

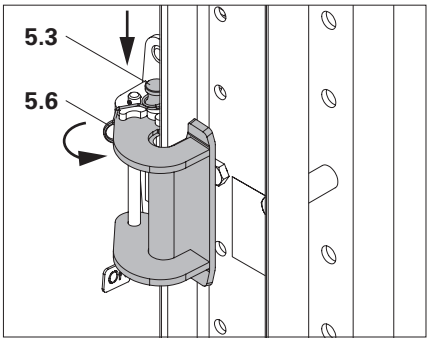


Fig. E6.06b

Activating and deactivating the climbing pawl

Warning

Hands can become trapped between climbing rails and climbing shoes!
This can result in serious injuries.
⇒ Only activate or deactivate the climbing pawl when the climbing unit has stopped moving.
⇒ Do not reach into the climbing rail during the climbing procedure.

Components

5 Climbing Shoe RCS
5.1 Climbing pawl
93 Visual Aid Climbing Shoe RCS

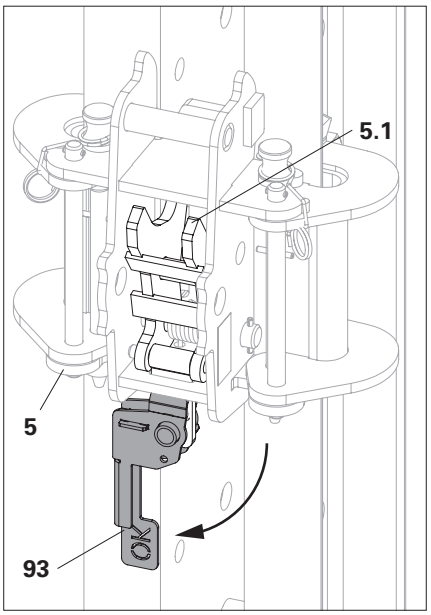


Fig. E6.07

Deactivating the climbing pawl

1. Ensure that the climbing unit is stationary.
2. Swing the Visual Aid Climbing Shoe RCS (**93**) on the Climbing Shoe RCS (**5**) downwards until it engages in a vertical position.
   → The climbing pawl (**5.1**) is deactivated and therefore non-operational.

(Fig. E6.07 + E6.07a)

- In this position, no vertical forces from the climbing rail or from the driving rail can be transferred via this particular shoe.
- Deactivating the climbing pawl prevents unintentional engagement with the locking pins of the climbing rail or the locking teeth of the climbing saw.

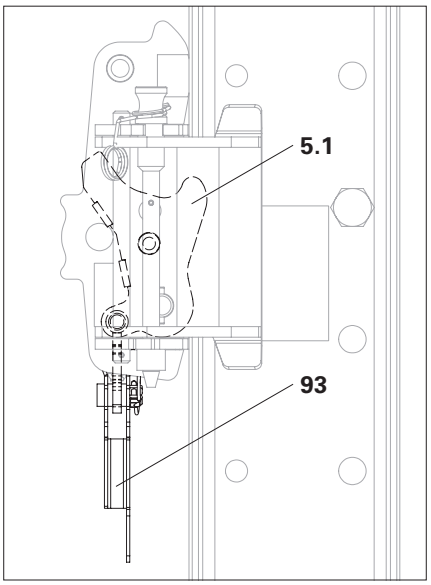


Fig. E6.07a

Activating the climbing pawl

1. Ensure that the climbing unit is stationary.
2. Swing the Visual Aid Climbing Shoe RCS (**93**) on the Climbing Shoe RCS (**5**) upwards.
   → The climbing pawl (**5.1**) is activated and therefore operational.

(Fig. E6.08 + E6.08a)

- Can the climbing pawl (**5.1**) move freely?
- Is the Visual Aid Climbing Shoe RCS (**93**) suspended horizontally?

This position makes transferring vertical forces from the climbing rail and driving rail possible during working operations and climbing.

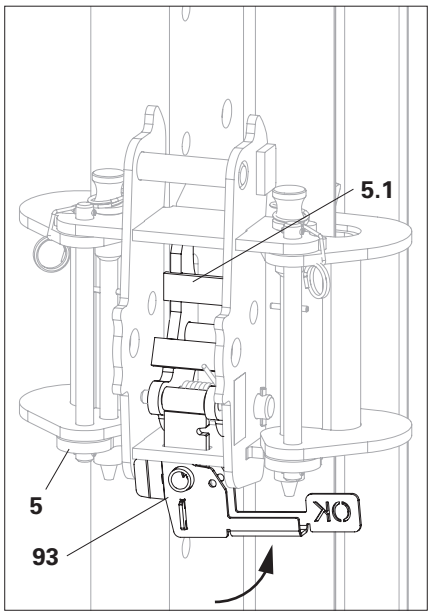


Fig. E6.08

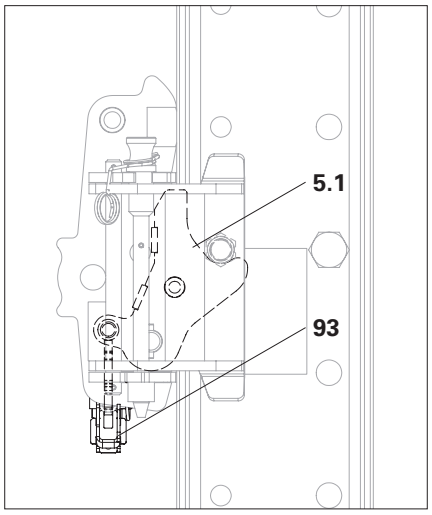


Fig. E6.08a

E7 Vertical load pawl in driving rail

The vertical load pawl is used in working and storm conditions to introduce the vertical forces into the anchoring of the older concreting section, whereby the anchorage has a higher load-bearing capacity due to the higher concrete strength and no interaction with high tension forces occurs.

- To deactivate, lift the vertical load pawl, swivel it out and lower it so that the nose rests on the installed bolt and prevents it from engaging.
- To activate, lift the vertical load pawl, swivel it in and lower it so that the nose is positioned in front of the installed bolt.
  (Fig. E7.01)

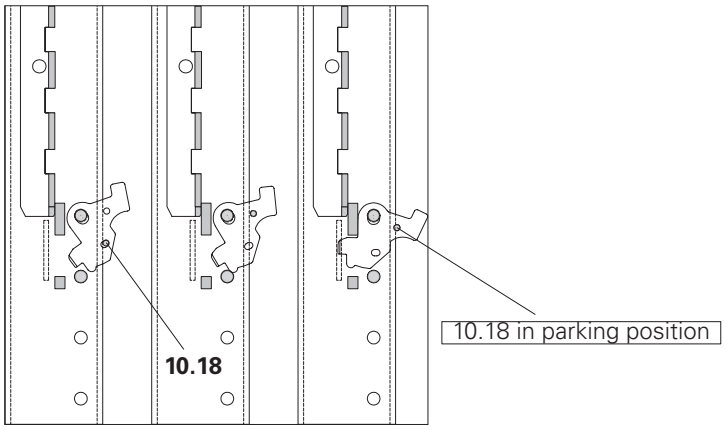


Fig. E7.01

If the vertical load pawl is not used (the climbing unit is mounted on the climbing shoe A in the working position by means of a spacer in the upper climbing rail), it can be secured against accidental engagement using Screws ISO 4017-M12x040-8.8-ga (**10.18**).
To ensure that the screw is always on the driving rail, it can be "parked" in an upper hole located on the vertical load pawl. It is there for all working states, except in the previously described case.

Normally, the vertical load pawl is activated at the last stroke.

- Extend Climbing Cylinder RCS MAX 75. The activated vertical load pawl (**10.7**) is swung outwards from the climbing saw (**10.6**) when the driving rail (**10**) is raised and engages in the recesses of the climbing saw (**10.6**), as soon as they are at the height of the vertical load pawl (**10.7**).
- Extend the Climbing Cylinder RCS MAX 75 until the climbing unit is at the appropriate height. If necessary, move over some recesses in the climbing saw (**10.6**).
- When the vertical load pawl (**10.7**) engages in the correct recess, retract the Climbing Cylinder RCS MAX 75 and lower the climbing unit onto the tooth of the climbing saw (**10.6**).
  → New load situation:
  The load rests by means of the vertical load pawl (**10.7**) across the climbing saw (**10.6**) on the Climbing Shoe RCS, which is engaged in the climbing saw.

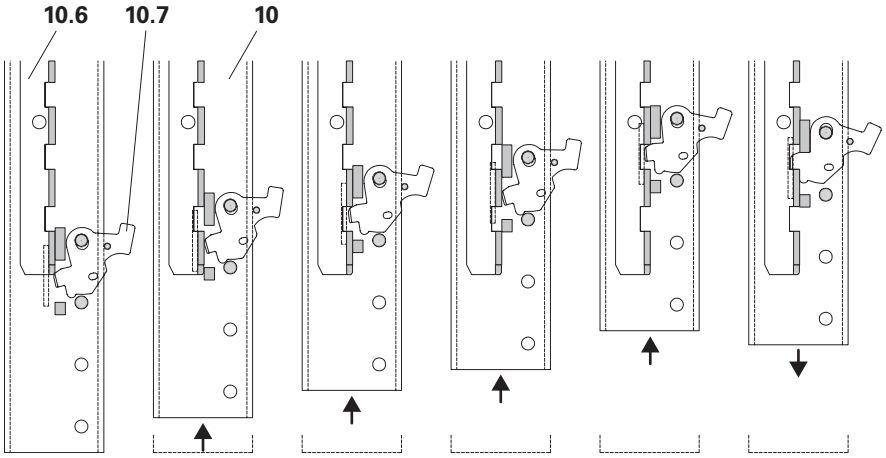


Fig. E7.02

→ The vertical load pawl (**10.7**) is activated.
(Fig. E7.02)

E8 Changing the cylinder position

If the height of the concreting section changes, it may be necessary to change the cylinder position.
For the correct cylinder position, see "Tab. B1.02" on page 35.

! Note
Modify each cylinder individually. To do this, operate the hydraulic unit in single mode, see the assembly instructions "RCS MAX Driving Rail and Hydraulics".

Change from position 1 to position 2

Prerequisite
- The climbing unit is suspended in the climbing shoe with a spacer (**9.1**).
- The climbing cylinder is fully retracted and relieved.
- The vertical load pawl (**10.7**) is permanently deactivated.

Modifying
1. Remove Fitting Pin Ø26 x 120 mm (**10.8**) and cotter pin 5/1 (**10.5**) from the parking position (**10.21**). (Fig. E8.01)
2. Connect the climbing saw (**10.6**) and driving rail (**10**) using Fitting Pins Ø26 x 120 mm (**10.8**) and secure with cotter pins 5/1 (**10.5**). (Fig. E8.02)

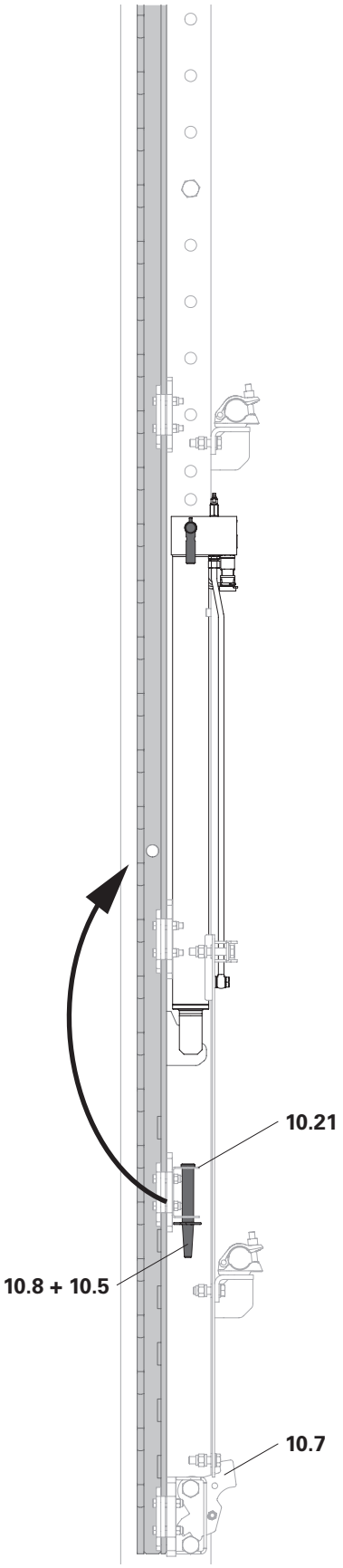


Fig. E8.01

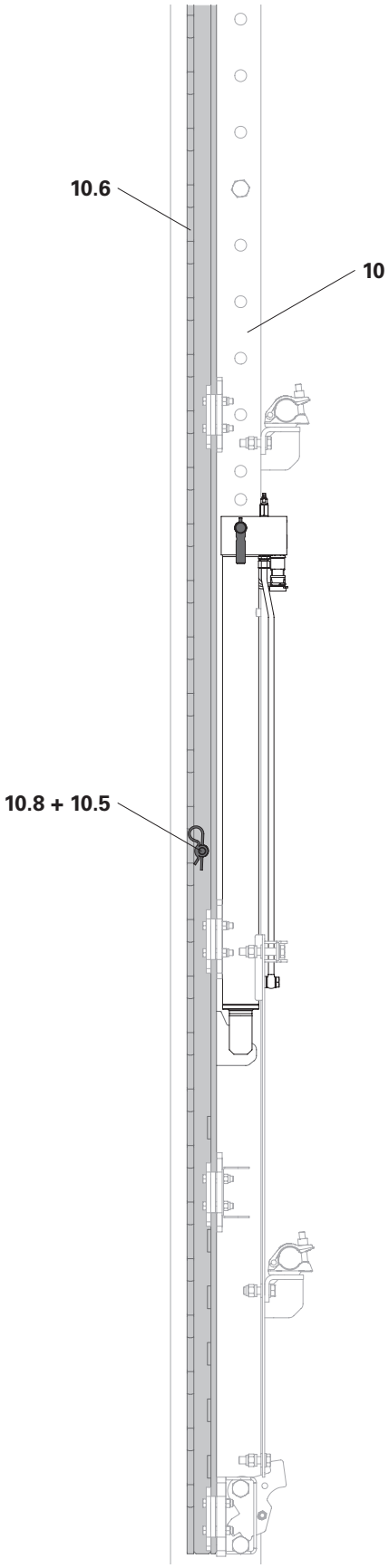


Fig. E8.02

3. Remove bolt Ø 25 x 200 SCS (**10.4**) with cotter pin 5/1 (**10.5**). (Fig. E8.03)
4. Extend the Climbing Cylinder RCS MAX 75 (**1**) by 62.5 mm.
   → The holes in the head of the Climbing Cylinder RCS MAX 75 (**1**) and the driving rail (**10**) at position 2 are congruent.

(Fig. E8.04)

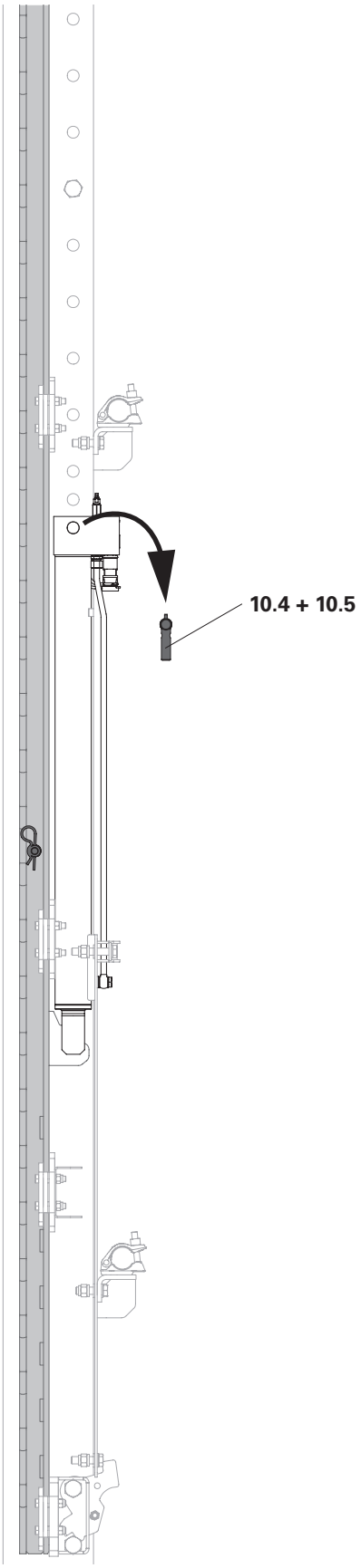


Fig. E8.03

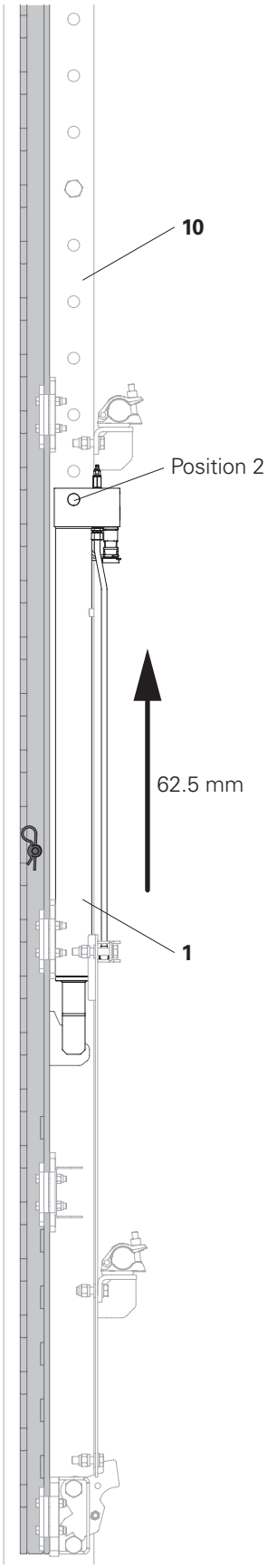


Fig. E8.04

5. Connect the Climbing Cylinder RCS MAX 75 (**1**) and driving rail (**10**) with bolt Ø 25 x 200 SCS (**10.4**) and cotter pin 5/1 (**10.5**). (Fig. E8.05)
6. Remove Fitting Pin Ø26 x 120 mm (**10.8**) and cotter pin 5/1 (**10.5**) and fit in the parking position (**10.21**). (Fig. E8.06)

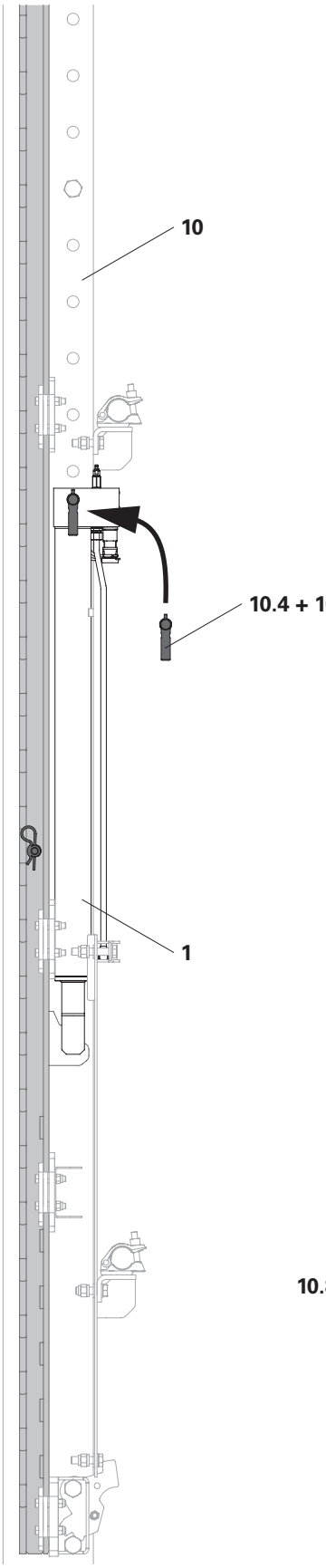


Fig. E8.05

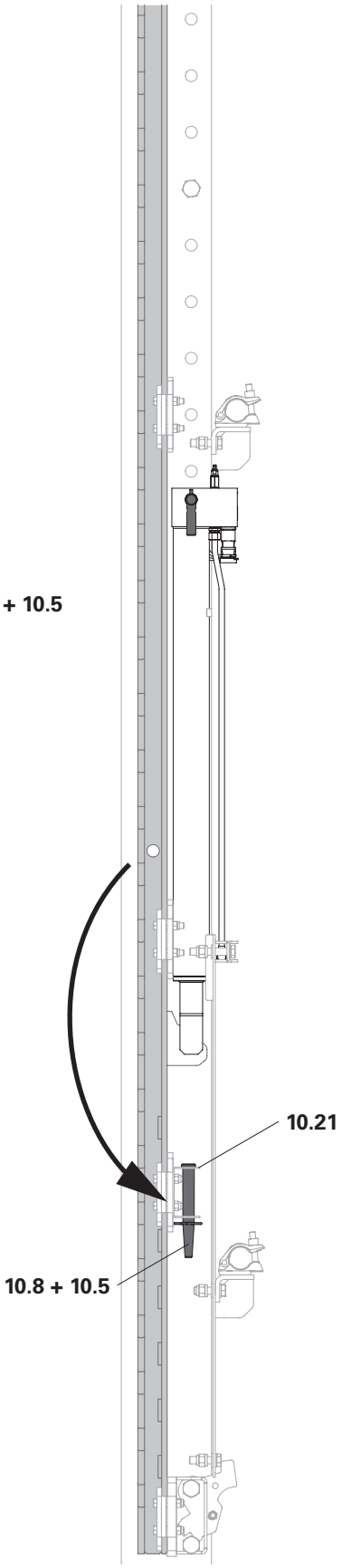


Fig. E8.06

Change from position 2 to position 1

Prerequisite

- The climbing unit is suspended in the climbing shoe with a spacer (**9.1**).
- The climbing cylinder is fully relieved.
- The vertical load pawl (**10.7**) is permanently deactivated.

Modifying

1. Extend the Climbing Cylinder RCS MAX 75 (**1**) by 62.5 mm.
   → The holes in the climbing saw (**10.6**) and driving rail (**10**) are congruent.

(Fig. E8.07)

2. Remove Fitting Pin Ø26 x 120 mm (**10.8**) and cotter pin 5/1 (**10.5**) from the parking position (**10.21**).
3. Connect the climbing saw (**10.6**) and driving rail (**10**) using Fitting Pins Ø26 x 120 mm (**10.8**) and secure with cotter pins 5/1 (**10.5**).

(Fig. E8.08)

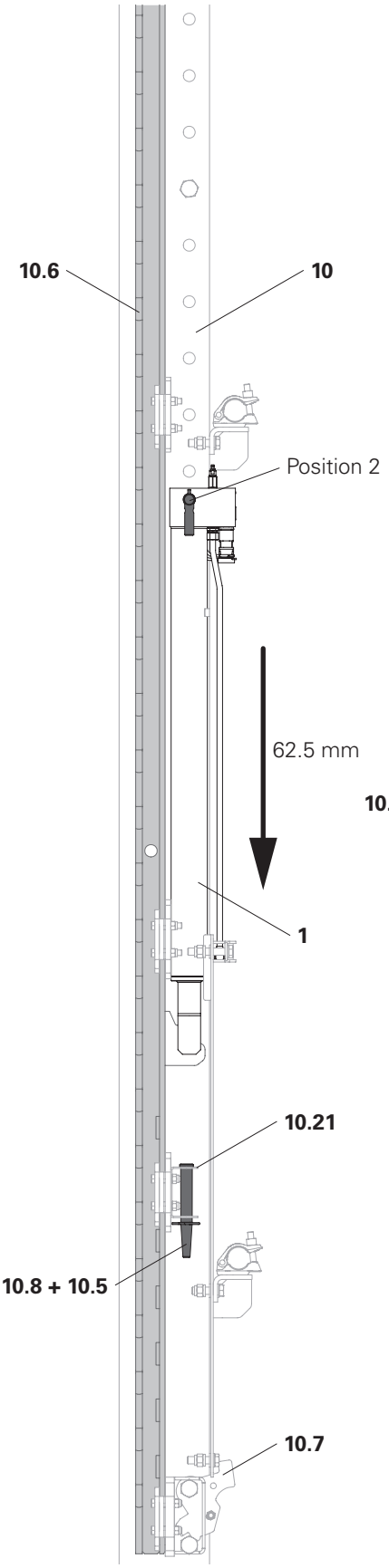


Fig. E8.07

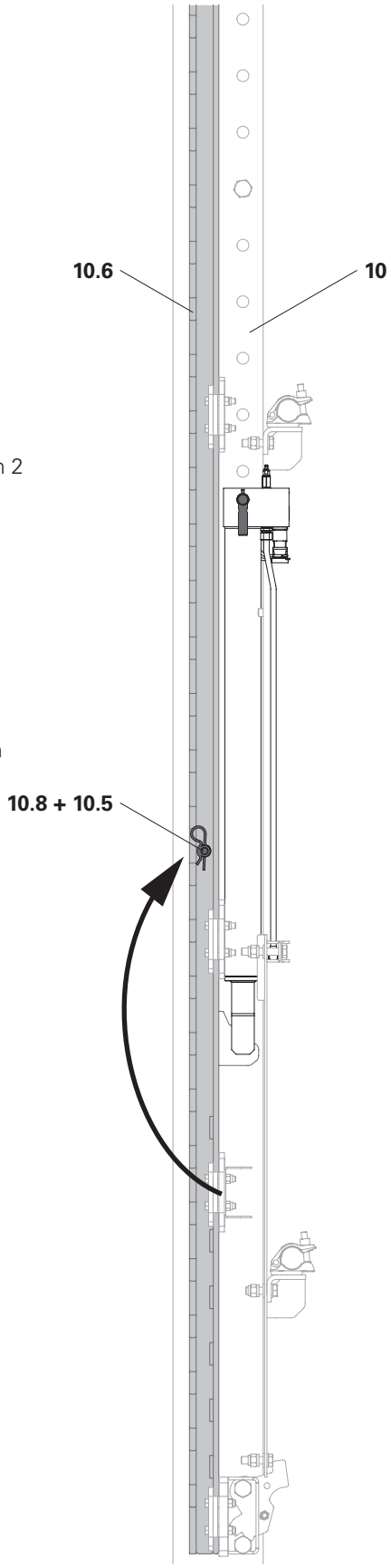


Fig. E8.08

4. Remove bolt Ø 25 x 200 SCS (**10.4**) with cotter pin 5/1 (**10.5**).
(Fig. E8.09)
5. Retract the Climbing Cylinder RCS MAX 75 (**1**) by 62.5 mm.
   → The holes in the head of the Climbing Cylinder RCS MAX 75 (**1**) and the driving rail (**10**) at position 1 are congruent.
(Fig. E8.10)

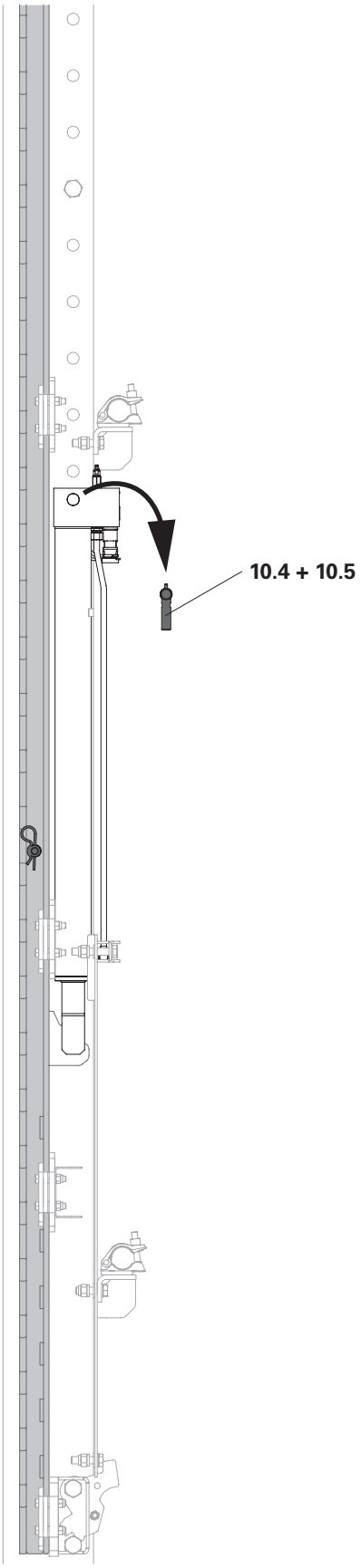


Fig. E8.09

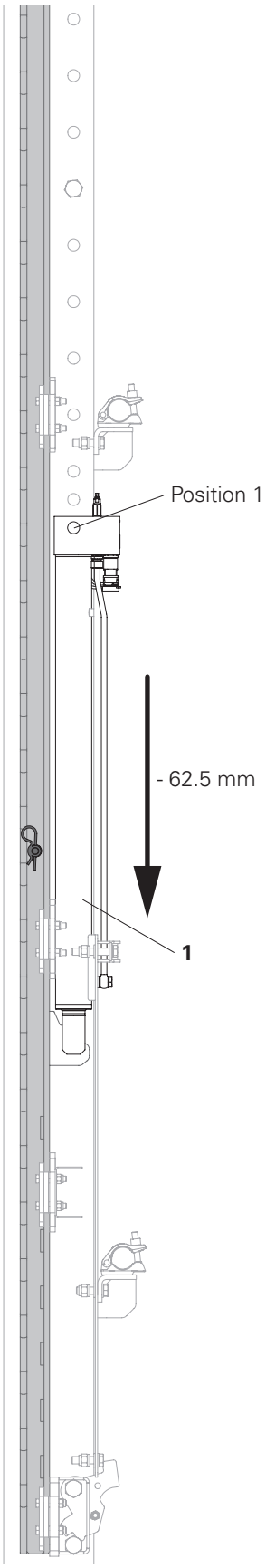


Fig. E8.10

6. Connect the Climbing Cylinder RCS MAX 75 (**1**) and driving rail (**10**) with bolt Ø 25 x 200 SCS (**10.4**) and cotter pin 5/1 (**10.5**).
(Fig. E8.11)
7. Remove Fitting Pin Ø26 x 120 mm (**10.8**) and cotter pin 5/1 (**10.5**) and fit in the parking position (**10.21**).
(Fig. E8.12)

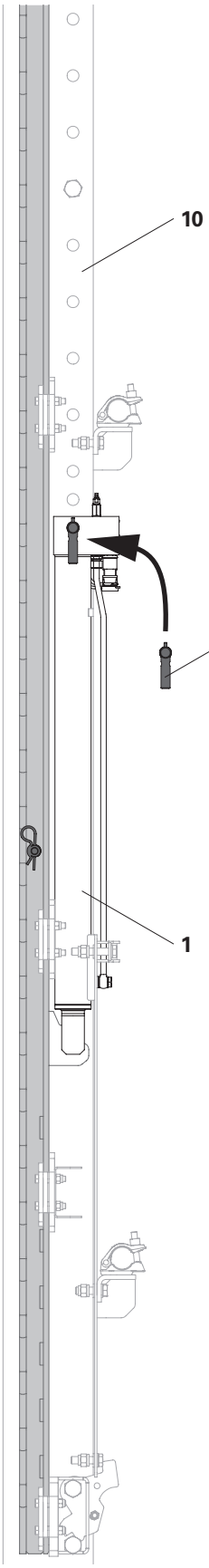


Fig. E8.11

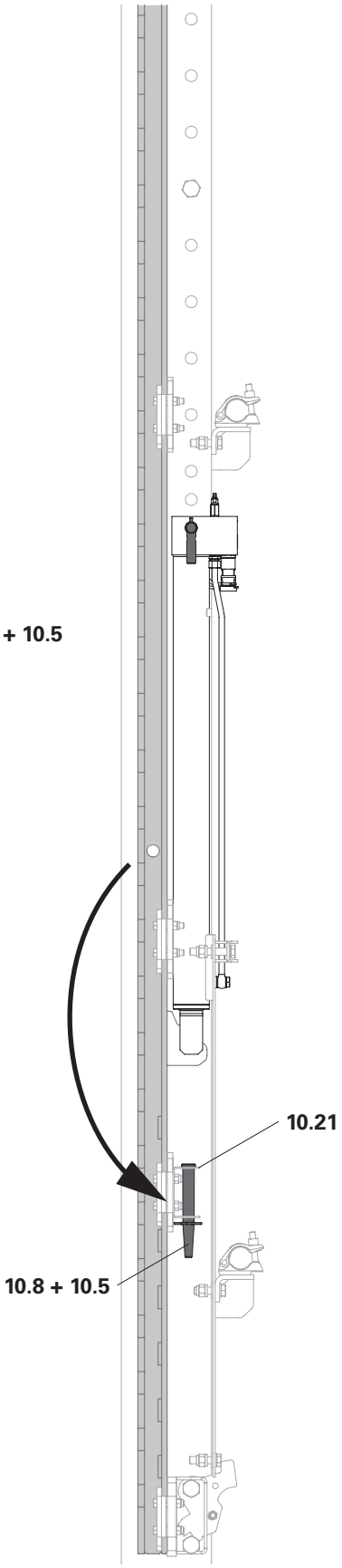


Fig. E8.12

- Crane-assisted climbing is not part of the standard climbing procedure.
- Contact PERI if you have climbed too far.

If the power or hydraulics fail, the following points must be observed:

Danger

The system can become overloaded and collapse during crane-assisted climbing!
This could result in serious injuries or even death.
⇒ Take into account the friction that occurs in the climbing shoes when dimensioning the load-bearing points and the load-bearing device.

- Use a 9 t climbing beam.
- Avoid diagonal pull.
- Undo the cable connections between the RCS Max Hydraulic Units so that they are not torn off.
- Remove covers from the gaps or other connections between the climbing units.
- No transport of persons or materials permitted.

Load-bearing points in the Climbing Rail RCS:

- Spacer RCS M24-82
  – Load-bearing capacity 4,500 kg.
- Fitting Pin Ø26 x 120 mm
  – Load-bearing capacity 3,500 kg.

Load-bearing point on the Strongback Steel Waler Universal SRU U120:

- Spacer-2 LPS 52
  – Load-bearing capacity 4,800 kg.
- Lifting Eye-2 BR 2.5 t ga on spacer for Platform Beam BR
  – Load-bearing capacity 2,500 kg.

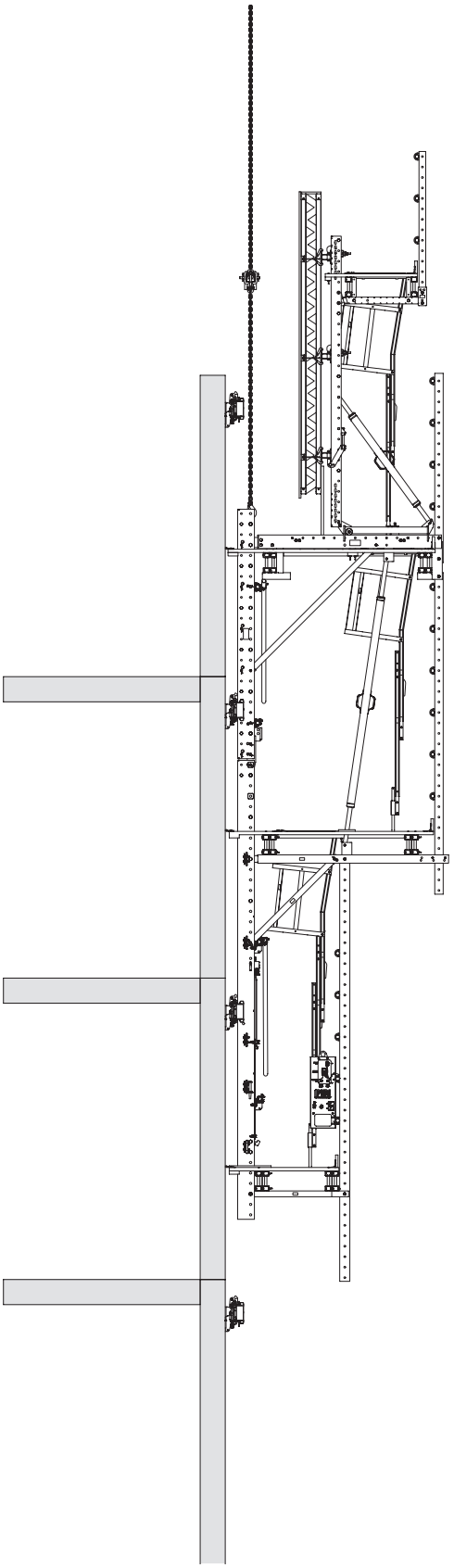


Fig. E9.01

F1 Removal

Warning

- Risk of falling from unsecured building edges and climbing units!
  A fall can result in serious injury or even death.
  ⇒ Install guardrails.
  ⇒ Use personal protective equipment to prevent falling from a height (PPE).
- During disassembly on the construction site, components may fall to the ground and hit people below!
  This can lead to serious injuries or even death.
  ⇒ Remove or secure all loose parts.
  ⇒ Cordon off danger zones beneath the working areas.

Removal

1. Remove connections to adjacent platforms.
2. Remove hydraulic units, hoses, data connections, power lines, etc.
3. Attach the formwork (**54**) to the crane with the Climbing Traverse RCS 9 t (**62**).
4. Remove the formwork from the wall with a crane and place it on the ground.

(Fig. F1.01)

5. Disassemble the formwork on the ground.
6. Dismantle ladders.

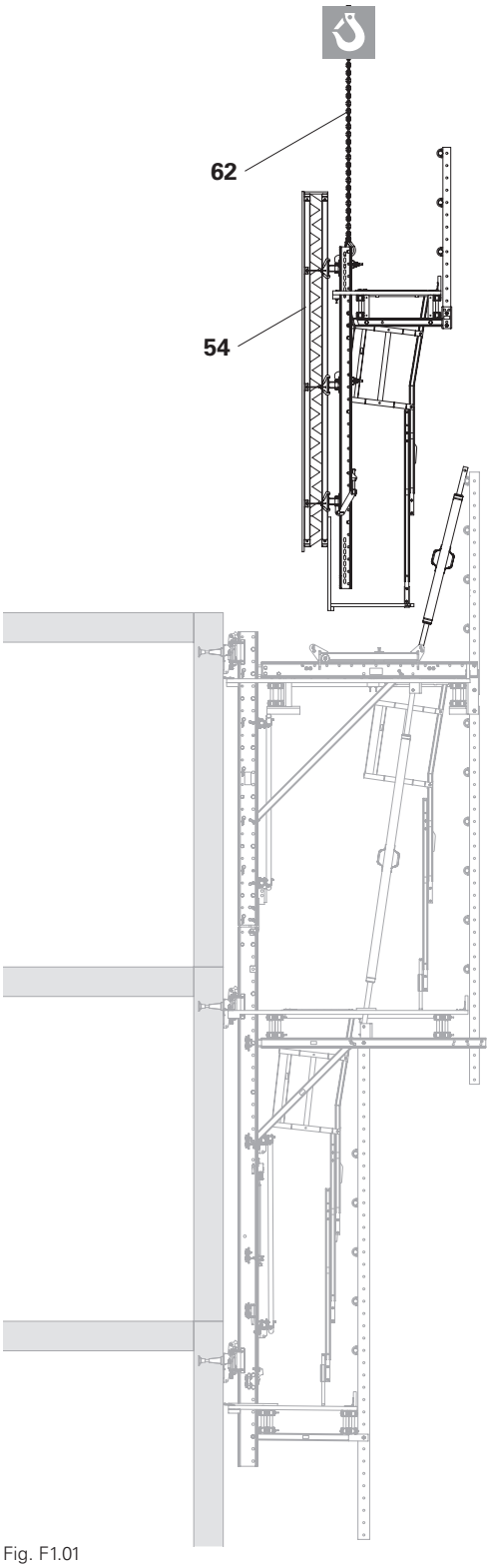


Fig. F1.01

Only ever disassemble the climbing shoes and wall shoes or remove climbing cones or close tie holes from a safe position, e.g. work cage.

7. Attach the climbing unit to the crane.
8. Remove the climbing unit from the wall with a crane and place it on the ground.

(Fig. F1.02)

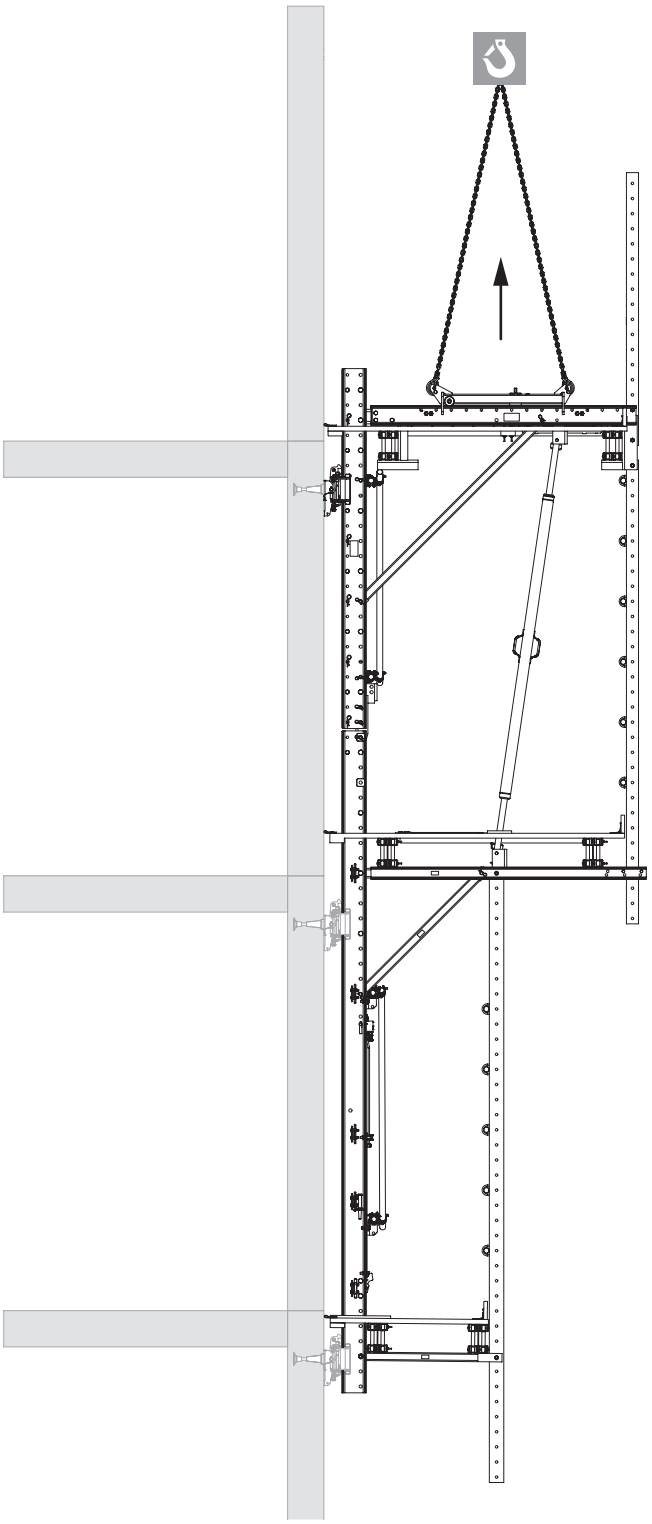


Fig. F1.02

9. Remove the guardrails.
10. Remove the finishing platform.
11. Dismantle the intermediate platform.
12. Remove the Climbing Cylinder RCS MAX 75.
13. Remove the Driving Rail RCS C MAX.
14. Remove the Climbing Rail Hinge RCS.

(Fig. F1.03)

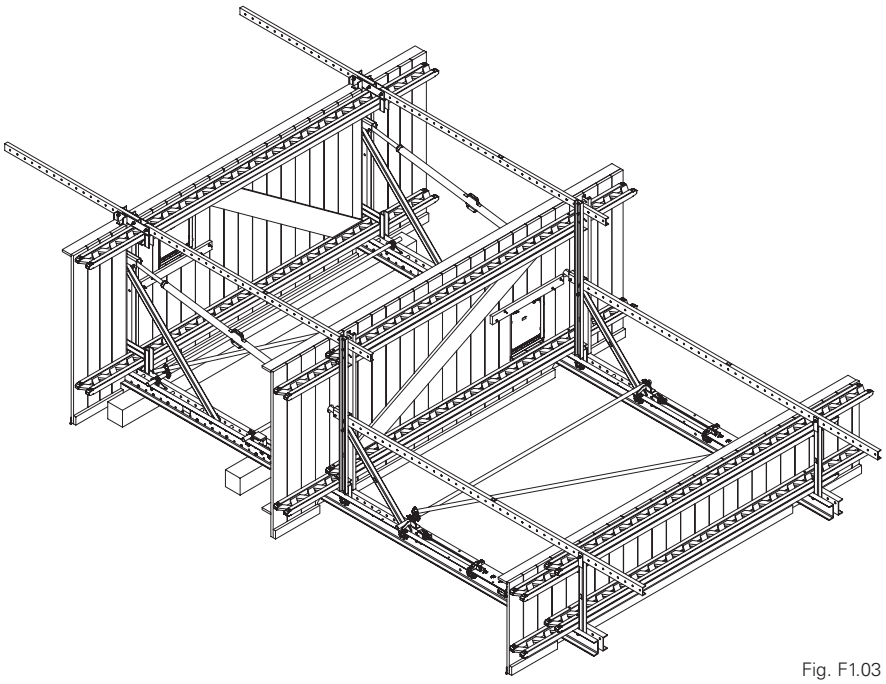


Fig. F1.03

15. Remove work platform.
16. Remove scaffolding tube bracing.

(Fig. F1.04)

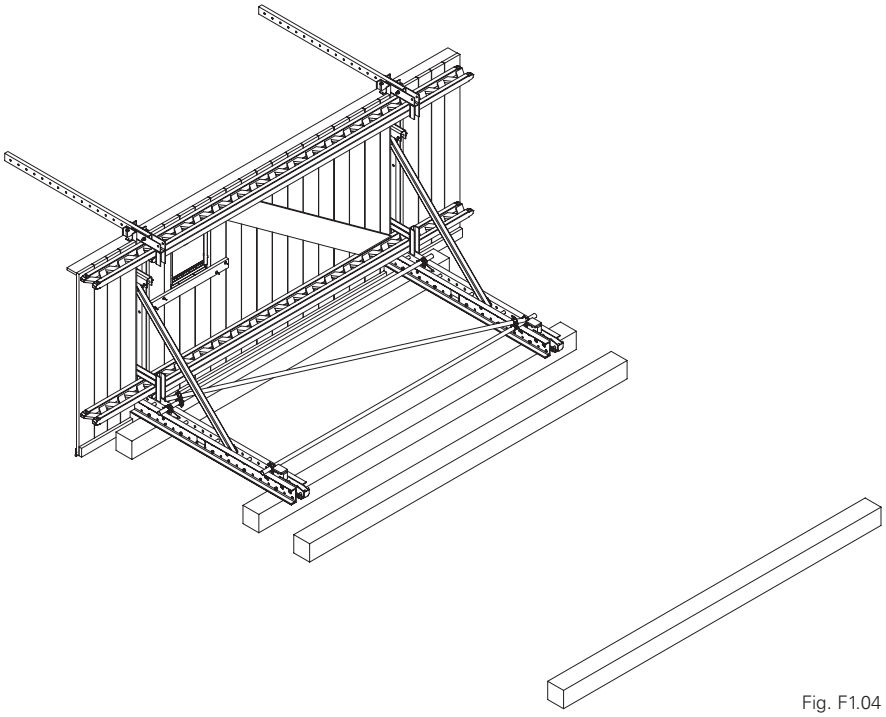
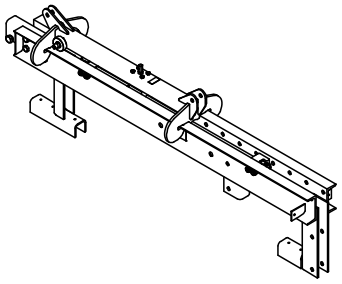
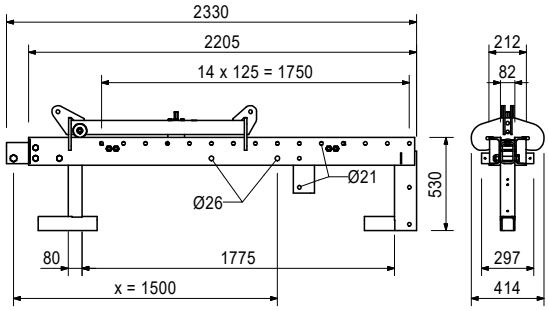


Fig. F1.04

Art no.	Weight [kg]	
118094	159.000	**Crossbeam Head RCS 220 VARIO**

Platform Beam for RCS Climbing Formwork. Assembly unit of Crossbeam RCS 220, Crossbeam Head RCS/VARIO and Carriage RCS.





Accessory (not included)

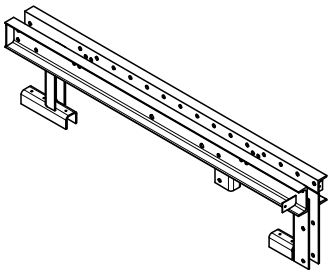
110094	0.895	**Carriage Crank Lever SW19 RCS**
710240	0.050	**Screw DIN603-M08x100-4.8-ga-Nu**
024390	0.090	**Screw DIN603-M08x200-4.8-ga-Nu**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**
109720	26.600	**Guardrail Post RCS 226**
104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**

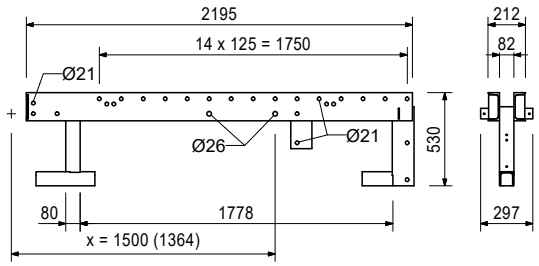
Consists of

1 pc 109716 Crossbeam U160 RCS
1 pc 110015 Crossbeam Head RCS/VARIO
1 pc 109968 Carriage RCS
1 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 105032 Hex-Nut ISO7040-M24-8-ga
1 pc 104477 Screw ISO4014-M20x120-8.8-ga
1 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
109716	107.000	**Crossbeam U160 RCS**

Spare part.
Platform beam for formwork scaffolding with Carriage RCS.



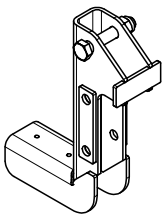


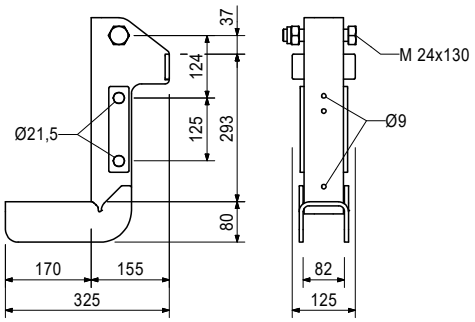
Accessory (not included)

132800	10.900	**Crossbeam Head RCS/VARIO**
110285	8.100	**TRIO Crossbeam Head RCS**
109968	41.500	**Carriage RCS**

Art no.	Weight [kg]	
116477	10.600	**Platform Beam Support RCS**

Support for additional Platform Beams 2 x GT 24 or VT 20 when used with Cross Beam RCS 220. With connector for Guardrail Post RCS.



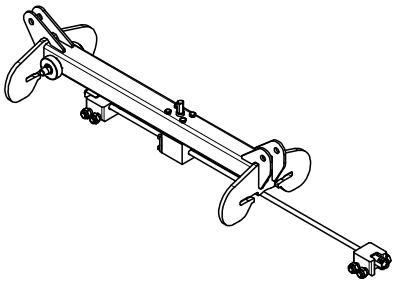


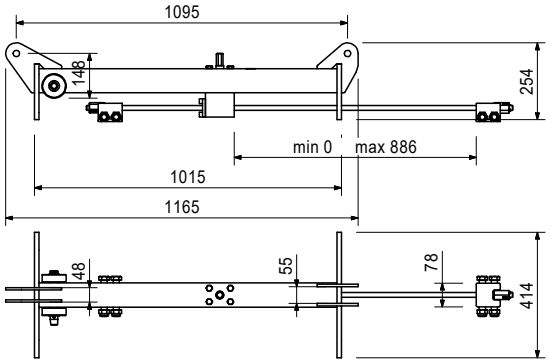
Consists of

1 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 105032 Hex-Nut ISO7040-M24-8-ga

Art no.	Weight [kg]	
109968	41.500	**Carriage RCS**

Spare part.
Self-locking carriage with roller bearings on the Crossbeam RCS 220. Formwork moveable by max. 88 cm.





Accessory (not included)

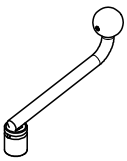
110094	0.895	**Carriage Crank Lever SW19 RCS**

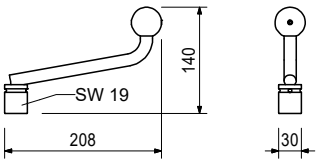
Consists of

4 pc 104477 Screw ISO4014-M20x120-8.8-ga
4 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
110094	0.895	**Carriage Crank Lever SW19 RCS**

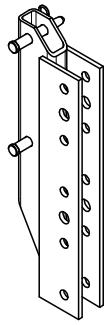
For operating the Carriage RCS.

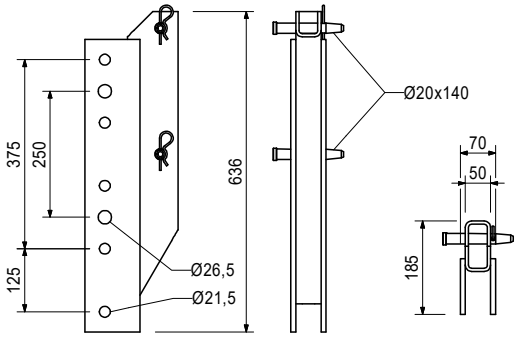




Art no.	Weight [kg]	
115325	16.600	**Strongback Adaptor RCS/SRU**

For mounting the Strongback SRU to the Carriage RCS when used with TRIO Panel Formwork.



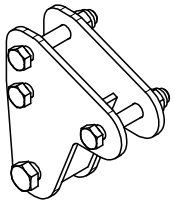


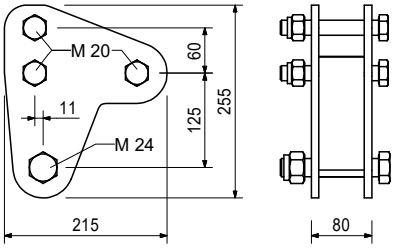
Consists of

2 pc 105400 Pin Ø20x140mm ga
2 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
110285	8.100	**TRIO Crossbeam Head RCS**

For connecting the Crossbeam RCS 220 to the Climbing Rail RCS when using TRIO Panel Formwork (x = 1364).



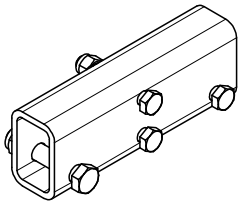


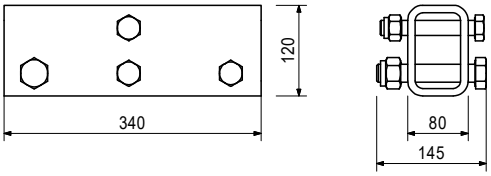
Consists of

1 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 105032 Hex-Nut ISO7040-M24-8-ga
3 pc 104477 Screw ISO4014-M20x120-8.8-ga
3 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
132800	10.900	**Crossbeam Head RCS/VARIO**

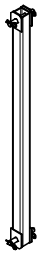
Spare part. For connecting the Crossbeam RCS 220 to the Climbing Rail RCS.

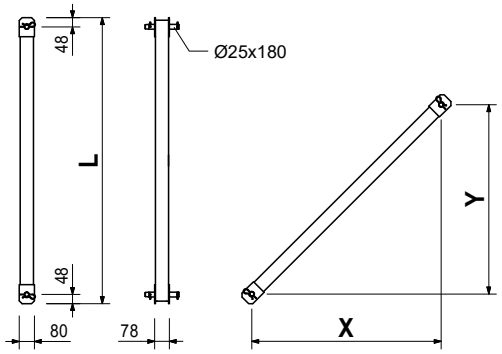




Art no.	Weight [kg]		L [mm]	X [mm]	Y [mm]
		Diagonal Struts RCS			
109718	16.600	**Diagonal Strut RCS 142**	1512	1000	1000
110473	18.300	**Diagonal Strut RCS 160**	1697	1500	1000
110012	23.500	**Diagonal Strut RCS 212**	2217	1500	1500

For bracing RCS framework brackets.



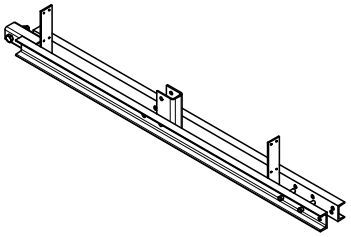


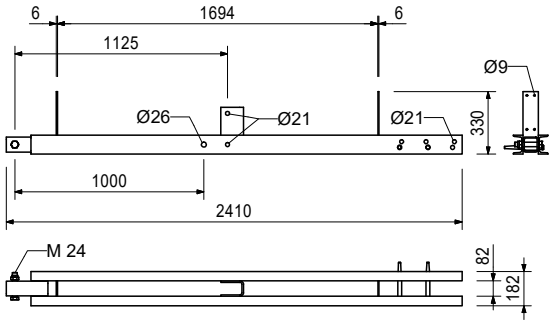
Consists of

1 pc 710894 Pin Ø25x180mm coat
1 pc 018060 Cotter Pin 4/1 ga
2 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 105032 Hex-Nut ISO7040-M24-8-ga

Art no.	Weight [kg]	
109717	59.300	**Intermediate Platform Beam RCS**

Platform beam for climbing platform.





Accessory (not included)

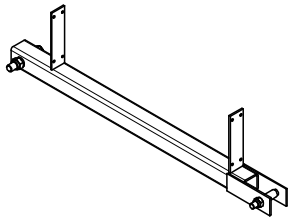
710240	0.050	**Screw DIN603-M08x100-ga-Nu**
024390	0.090	**Screw DIN603-M08x200-ga-Nu**

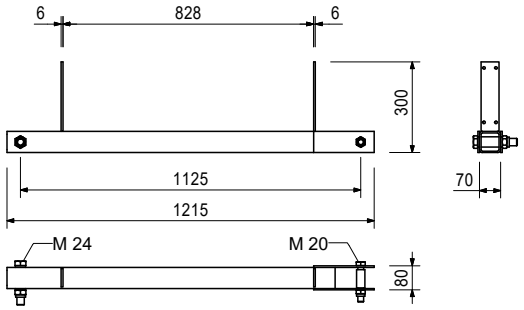
Consists of

2 pc 104031 Fitting Pin Ø21x120mm
2 pc 018060 Cotter Pin 4/1 ga
1 pc 105032 Hex-Nut ISO7040-M24-8-ga
1 pc 109612 Screw ISO4014-M24x130-8.8-ga

Art no.	Weight [kg]	
109722	14.200	**Finishing Platform Beam RCS**

Platform beam for finishing platform.





Accessory (not included)

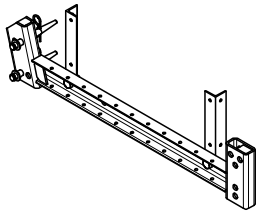
710240	0.050	**Screw DIN603-M08x100-4.8-ga-Nu**
024390	0.090	**Screw DIN603-M08x200-4.8-ga-Nu**

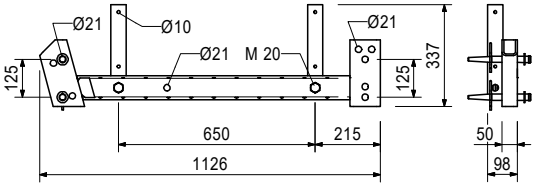
Consists of

1 pc 104477 Screw ISO4014-M20x120-8.8-ga
1 pc 781053 Hex-Nut ISO7040-M20-8-ga
1 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 105032 Hex-Nut ISO7040-M24-8-ga

Art no.	Weight [kg]	
114301	17.100	**Platform Beam RCS/SRU 113**

For assembling cantilvered platforms on Steel Walers SRU or Climbing Rails RCS.





Accessory (not included)

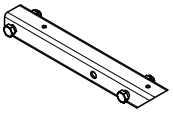
114328	16.600	**Guardrail Post RCS/SRU 184**

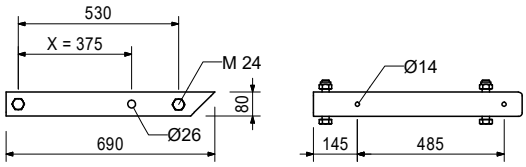
Consists of

2 pc 104031 Fitting Pin Ø21x120mm
2 pc 706454 Washer ISO7089-20-200HV-ga
2 pc 022230 Cotter Pin 5/1 ga
2 pc 706458 Screw ISO4017-M20x040-8.8-ga
2 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
111631	10.100	**Crossbar RCS 69**

As horizontal bar or strut for assembly as Climbing Protection Panel (platform width 1m).





Accessory (not included)

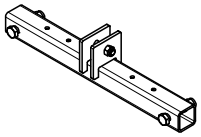
110599	0.242	**Screw ISO4017-M12x240-8.8-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
113348	0.043	**Washer ISO7094-12-100HV-ga**

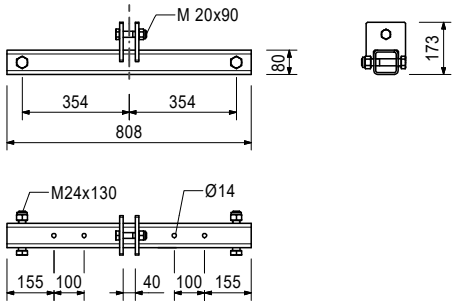
Consists of

2 pc 109612 Screw ISO4014-M24x130-8.8-ga
2 pc 105032 Hex-Nut ISO7040-M24-8-ga

Art no.	Weight [kg]	
137394	15.200	**Crossbar RCS 81**

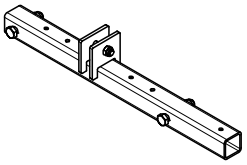
As Ledger when erected as a Climbing Protection Panel (Platform width 1.32m).
Use in conjunction with LPS mesh.

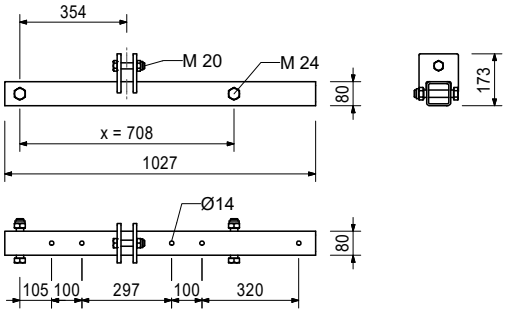




Art no.	Weight [kg]	
110234	18.200	**Crossbar 103 RCS**

As horizontal bar for assembly as Climbing Protection Panel (platform width 1.32m).
With connection to enclosure girders made of squared timber.





Accessory (not included)

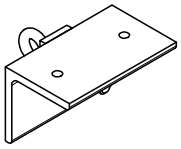
110599	0.242	**Screw ISO4017-M12x240-8.8-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
113348	0.043	**Washer ISO7094-12-100HV-ga**

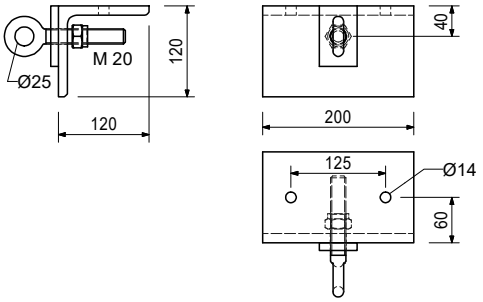
Consists of

1 pc 710226 Screw ISO4014-M20x090-8.8-ga
1 pc 781053 Hex-Nut ISO7040-M20-8-ga
2 pc 109612 Screw ISO4014-M24x130-8.8-ga
2 pc 105032 Hex-Nut ISO7040-M24-8-ga

Art no.	Weight [kg]	
110290	5.030	**Timber Fixation RCS**

For assembly of timbers on the Climbing Rails RCS for use as climbing protection panel.





Accessory (not included)

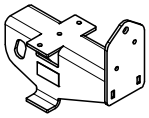
070030	0.015	**Plate Conn. Ø50/12mm single**
018330	0.140	**Screw ISO4016-M12x140-4.6-ga-N**
027340	0.180	**Screw ISO4016-M12x180-4.6-ga**
113348	0.043	**Washer ISO7094-12-100HV-ga**

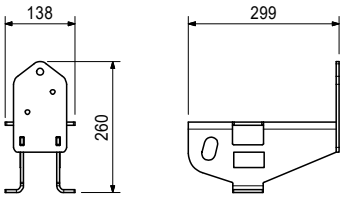
Consists of

1 pc 110281 Eyebolt M20 right coat
1 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
126430	4.460	**Adaptor VT 20 / RCS-P**

For mounting a horizontal positioned Girder VT 20 onto the Climbing Profile RCS.



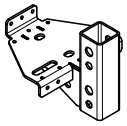


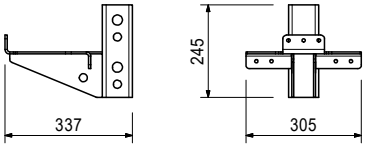
Accessory (not included)

024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**
109612	0.600	**Screw ISO4014-M24x130-8.8-ga**
105032	0.070	**Hex-Nut ISO7040-M24-8-ga**
104477	0.300	**Screw ISO4014-M20x120-8.8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**

Art no.	Weight [kg]	
128519	6.840	**Enclosure Adapter RCS Ø26-Ø21**

For the fixation of horizontal Enclosure Girders GT 24 or Climbing Rails profile RCS U200 on vertical Climbing Rails RCS.



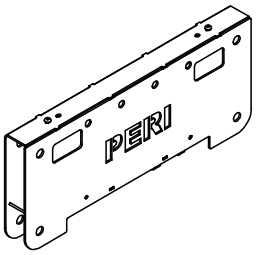


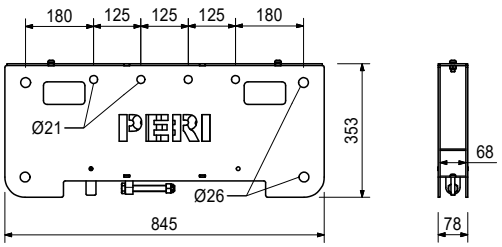
Accessory (not included)

109612	0.600	**Screw ISO4014-M24x130-8.8-ga**
105032	0.070	**Hex-Nut ISO7040-M24-8-ga**
104477	0.300	**Screw ISO4014-M20x120-8.8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**

Art no.	Weight [kg]	
130219	24.400	**Platform Cantilever Beam RCS**

Bracket for fixing Platform LPS to Climbing Rail RCS.





Accessory (not included)

111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Consists of

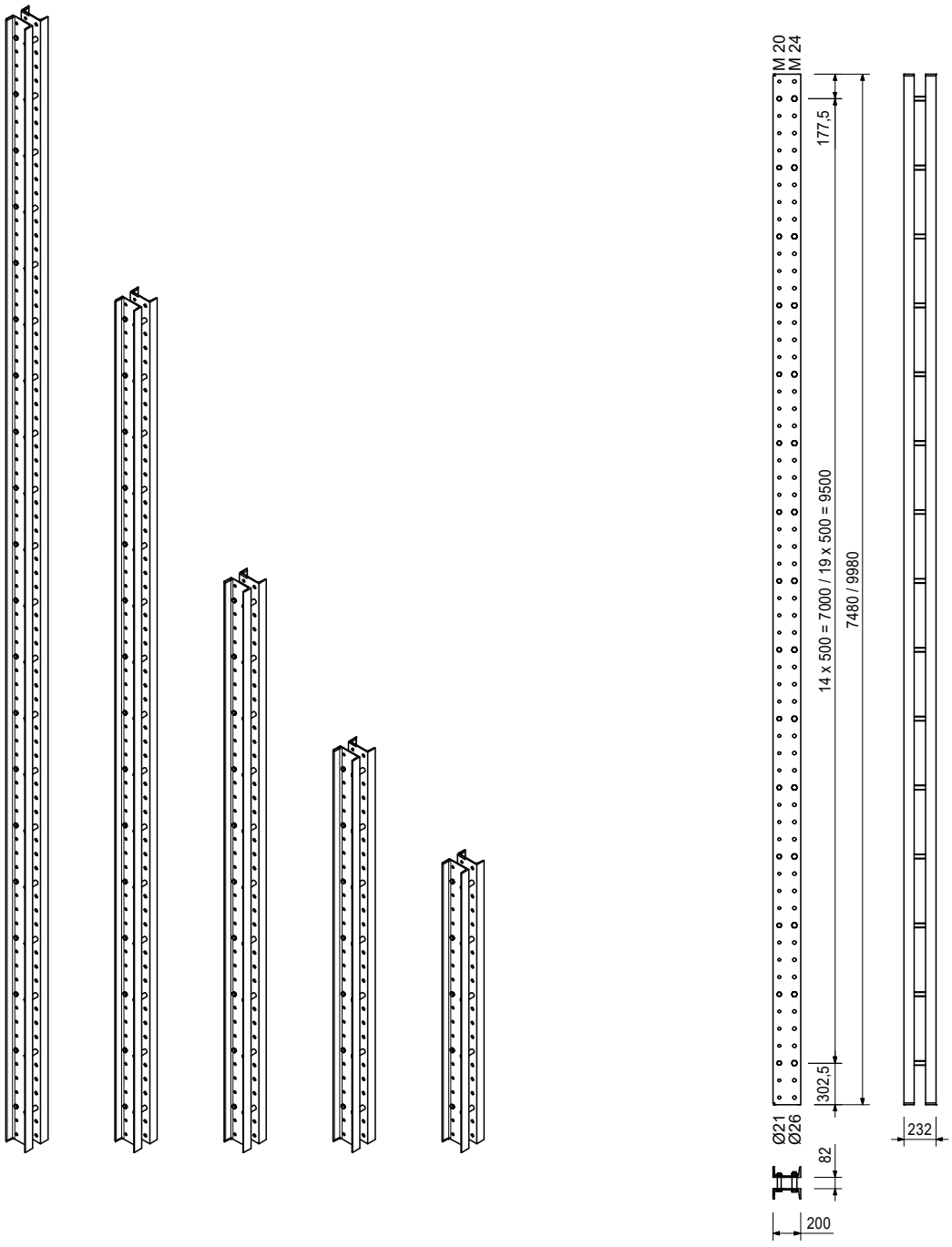
1 pc 125991 Screw ISO7380-M10x025-10.9-ga
1 pc 126248 Castle-Nut DIN935-M16-8-ga
1 pc 126249 Screw ISO4017-M16x130-drilled
1 pc 780356 Hex-Nut ISO7040-M10-8-ga
1 pc 750329 Sleeve ISO8752-05.0x020-coat

Art no.	Weight [kg]		L [mm]
		Climbing Rails RCS	
114166	78.200	**Climbing Rail RCS 148**	1480
135990	105.000	**Climbing Rail RCS 198**	1980
109469	130.000	**Climbing Rail RCS 248**	2480
112102	156.000	**Climbing Rail RCS 298**	2980
109470	182.000	**Climbing Rail RCS 348**	3480
112141	209.000	**Climbing Rail RCS 398**	3980
109471	262.000	**Climbing Rail RCS 498**	4980
109472	393.000	**Climbing Rail RCS 748**	7480
109610	524.000	**Climbing Rail RCS 998**	9980

Steel profile for all-purpose use of climbing application or civil constructions.

Notes

Wy = 357.6 cm³, Iy = 3576 cm⁴.

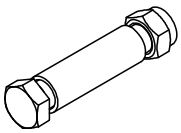


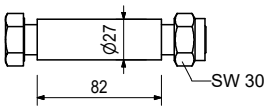
Accessory (not included)

136109	0.472	**Pin Set RCS MAX**

Art no.	Weight [kg]	
110022	0.491	**Spacer M20x82mm**

Spacer for Climbing Rails RCS.



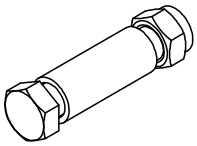


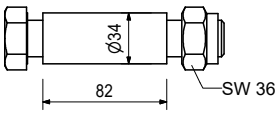
Consists of

1 pc 104477 Screw ISO4014-M20x120-8.8-ga
1 pc 130341 Hex-Nut ISO7042-M20-8-ga

Art no.	Weight [kg]	
110023	0.910	**Spacer M24x82mm**

Spacer for Climbing Rails RCS.



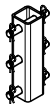


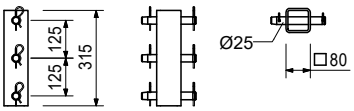
Consists of

1 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 130342 Hex-Nut ISO7042-M24-8-ga

Art no.	Weight [kg]	
109743	6.370	**Climbing Rail Coupling RCS 32**

For an articulated connection of Climbing Rails RCS.



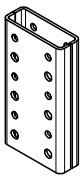


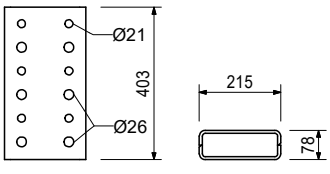
Consists of

3 pc 710894 Pin Ø25x180mm coat
6 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
111833	12.700	**Climbing Rail Conn. RCS 40**

For an articulated connection or doubling of the RCS Climbing Rails.



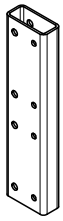


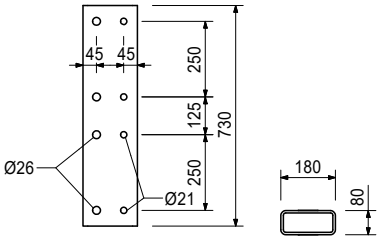
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Art no.	Weight [kg]	
113744	21.000	**Climbing Rail Conn. RCS 73**

For rigid connection of Climbing Rails RCS. Perm. bending moment limited.



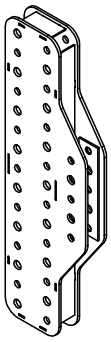


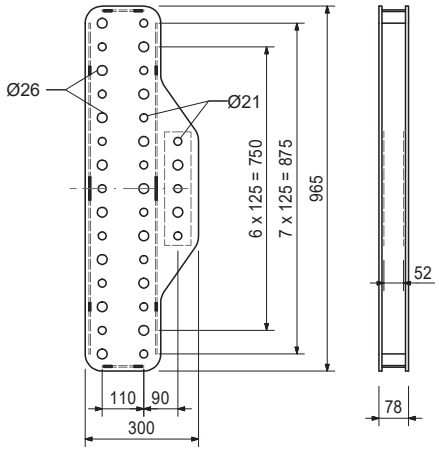
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Art no.	Weight [kg]	
111390	32.800	**Climbing Rail Conn. RCS 97**

For rigidly connecting the Climbing Rails RCS. With connection for the Heavy-Duty Spindles SLS.



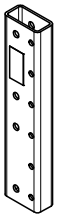


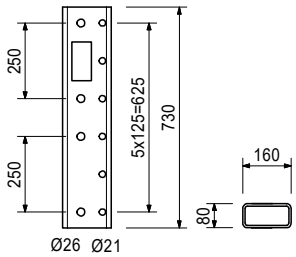
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Art no.	Weight [kg]	
128671	19.100	**Climbing Rail Conn. RCS/LPS 73**

For height extension of Climbing Rails RCS in combination with Screen Elements LPS.



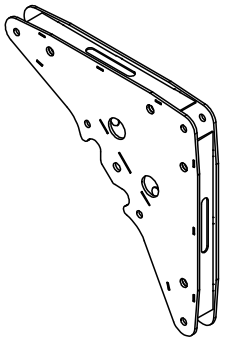


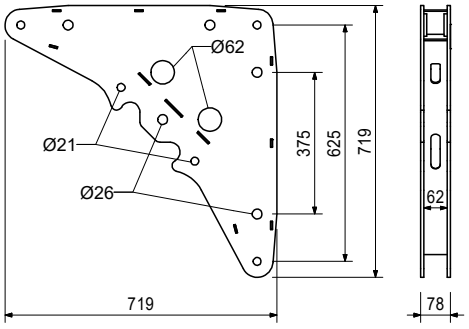
Accessory (not included)

127875	2.000	**Screen Support LPS M20**

Art no.	Weight [kg]	
111382	35.200	**Climbing Rail Angle Conn. RCS**

For rigidly connecting the Climbing Rails RCS at right-angles, for frame construction or as bracket. With connection for the Heavy-Duty Spindle SLS and Tie Rod Cylinder Yoke SRU.



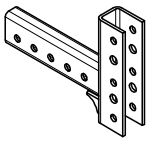


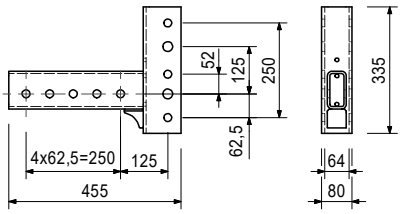
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**
110755	5.140	**Tie Yoke SRU**

Art no.	Weight [kg]	
111283	9.950	**Connector RCS/SRU**

For right-angled connection of Steel Walers SRU to the Climbing Rails RCS and for attaching guardrail posts to Steel Walers SRU.



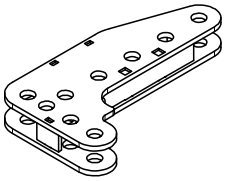


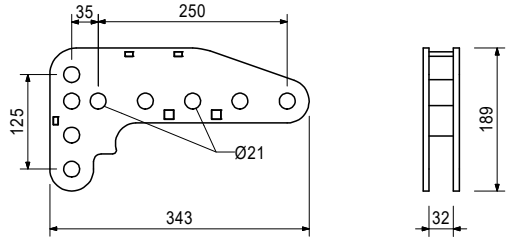
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Art no.	Weight [kg]	
115623	5.040	**Corner Connector VARIOKIT SRU**

For a rigid connection of Steel Walers SRU.



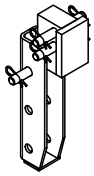


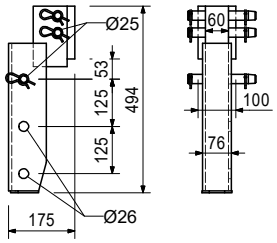
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
110569	16.700	**Climbing Rail Hinge RCS**

For an articulated connection of the Climbing Rails RCS and as pressure point on the RCS Climbing Brackets.



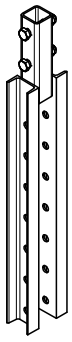


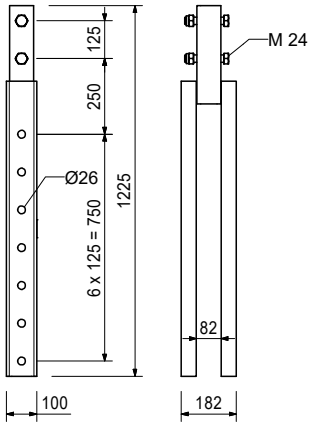
Consists of

3 pc 710894 Pin Ø25x180mm coat
4 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
109791	25.900	**Climbing Rail Extens. RCS 100**

As extension of the Climbing Rail RCS or Drive Rail RCS MAX for connecting the finishing platform.





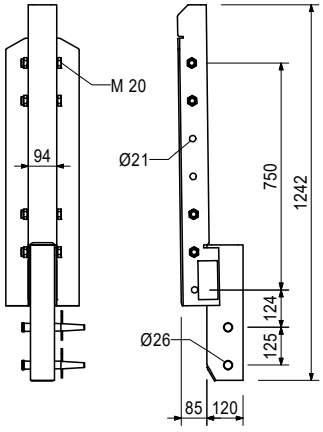
Consists of

2 pc 109612 Screw ISO4014-M24x130-8.8-ga
2 pc 105032 Hex-Nut ISO7040-M24-8-ga

Art no.	Weight [kg]	
113745	30.200	**Climbing Rail Extens. RCS 125**

For extending the Climbing Rail RCS and using the Climbing Device RCS 50 on the working platform.



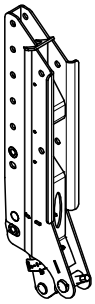


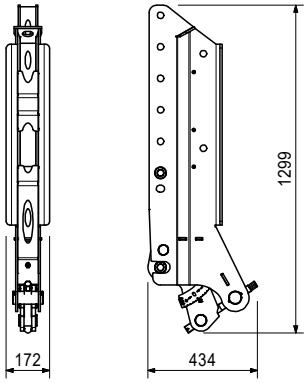
Consists of

4 pc 110022 Spacer M20 82mm
2 pc 111567 Fitting Pin Ø26x120mm
2 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
136108	66.100	**Incline Connector RCS CL MAX**

For connecting Climbing Rail RCS to Drive Rail RCS CL MAX and for adjusting the angle of inclination during climbing.





Accessory (not included)

021790	1.000	**Combi Ratchet Spanner SW24**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

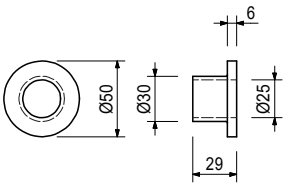
Consists of

1 pc 136311 Tension Bolt TR right coat
1 pc 722583 Sleeve ISO8751-06.0x028-coat
1 pc 136310 Tension Bolt TR left coat
1 pc 136309 Tension Spindle TR coat
2 pc 722217 Sleeve ISO8752-06.0x060-coat
1 pc 136312 Inclination Indicator coat
1 pc 780356 Hex-Nut ISO7040-M10-8-ga
1 pc 118533 Screw ISO4017-M10x030-8.8-ga

Art no.	Weight [kg]	
113822	0.108	**Reducing Sleeve Ø30-Ø25**

For using Stopend Slab Anchor M24/20-128 on the Stopend Slab Shoe RCS.



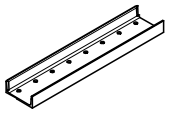


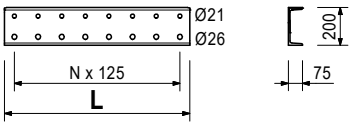
Accessory (not included)

026430	0.334	**Screw ISO4014-M24x070-10.9**

Art no.	Weight [kg]		L [mm]
		Climbing Rail Profiles RCS	
117585	24.300	**Climbing Rail Profile RCS 98**	980
116478	37.000	**Climbing Rail Profile RCS 148**	1480
116479	61.500	**Climbing Rail Profile RCS 248**	2480
112150	73.900	**Climbing Rail Profile RCS 298**	2980
116480	86.300	**Climbing Rail Profile RCS 348**	3480
113705	98.700	**Climbing Rail Profile RCS 398**	3980
116481	124.000	**Climbing Rail Profile RCS 498**	4980
116482	186.000	**Climbing Rail Profile RCS 748**	7480
116483	248.000	**Climbing Rail Profile RCS 998**	9980

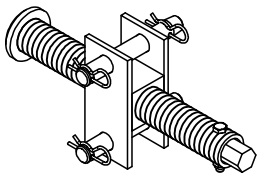
Steel profile for all-purpose use of climbing application or civil constructions. Single profile.

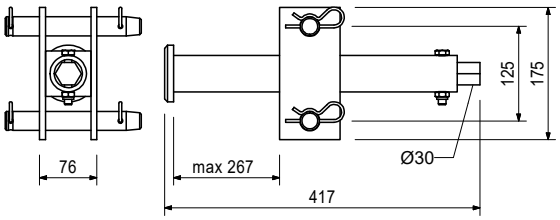




		Accessory (not included)
110022	0.491	**Spacer M20 82mm**
110023	0.910	**Spacer M24 82mm**

Art no.	Weight [kg]	
110000	7.540	**Spindle Compression Point RCS**



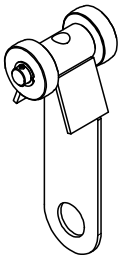


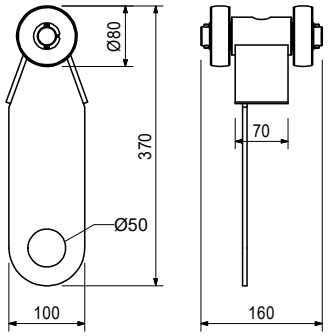
Art no.	Weight [kg]	
111403	4.840	**Mounting Castor Climb Rail RCS**

For mounting and moving formwork elements on horizontally-positioned Climbing Rails RCS.

Notes

Permissible load-bearing capacity 1.5t.



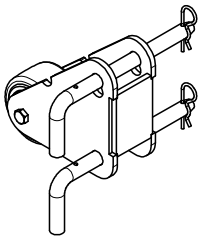


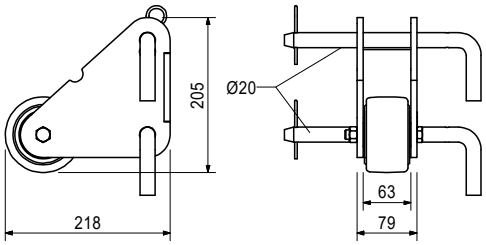
Art no.	Weight [kg]	
116469	5.920	**Heavy Duty Castor RCS 1.5t**

For assembling in Climbing Rails RCS, foldable.

Notes

Permissible load-bearing capacity 1.5t.



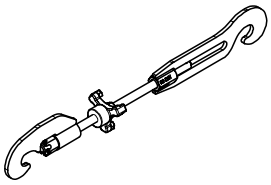


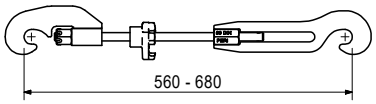
Consists of

2 pc 113012 Locking Pin Ø20x260mm coat
2 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
114317	3.210	**Guide-in Tool RCS**

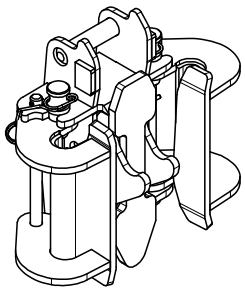
For pulling up the Climbing Rail RCS in order to close the folding runners of the Climbing Shoe.

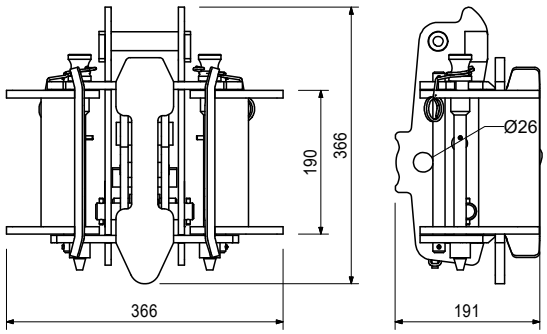




Art no.	Weight [kg]	
109468	19.800	**Climbing Shoe RCS**

Guide and support for Climbing Rail RCS. With foldable leading runners and self-actuating bearing pawl.





Accessory (not included)

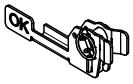
135962	0.379	**Visual Aid Climbing Shoe RCS**

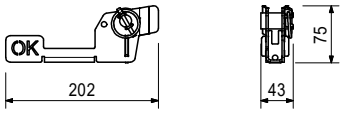
Consists of

2 pc 116067 Climbing Shoe Lock RCS
2 pc 109902 Locking Pin Ø30x290mm coat
4 pc 711063 Sleeve ISO8752-05.0x035-coat
2 pc 109508 Bolt Ø16x239mm coat
4 pc 750329 Sleeve ISO8752-05.0x020-coat
1 pc 109903 Spring Lock

Art no.	Weight [kg]	
135962	0.379	**Visual Aid Climbing Shoe RCS**

Used to indicate the switching position of the Climbing Pawl in the Climbing Shoe RCS.





Accessory (not included)

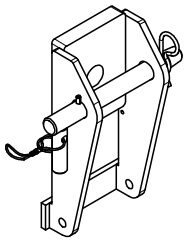
109468	19.800	**Climbing Shoe RCS**

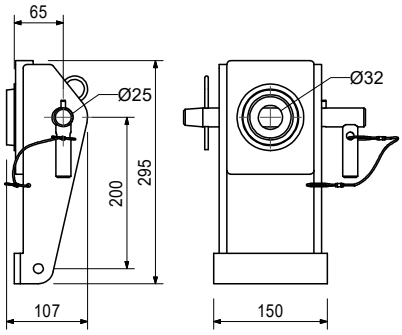
Consists of

1 pc 126908 Screw ISO4014-M08x045-8.8-ga
1 pc 711071 Hex-Nut ISO7040-M08-8-ga

Art no.	Weight [kg]	
109503	7.380	**Wall Shoe RCS**

Anchor System M30. For anchoring Climbing Shoe RCS to the wall.





Accessory (not included)

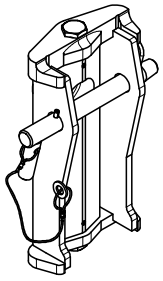
029420	0.590	**Screw ISO4017-M30x070-8.8-ga**

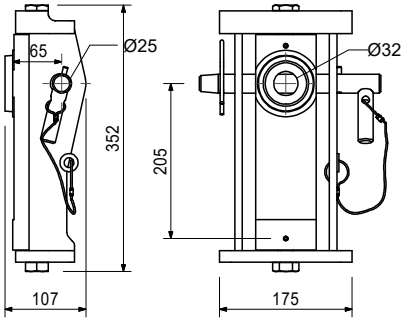
Consists of

1 pc 715585 Lock.PinØ25x240mm SKS 150 coat
1 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
110667	13.700	**Wall Shoe RCS privoted**

Anchor System M30. For anchoring Climbing Shoe RCS to circular walls. Swivel range ± 15°.





Accessory (not included)

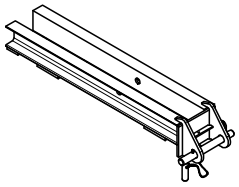
113007	0.700	**Screw ISO4762-M30x70-8.8-ga**

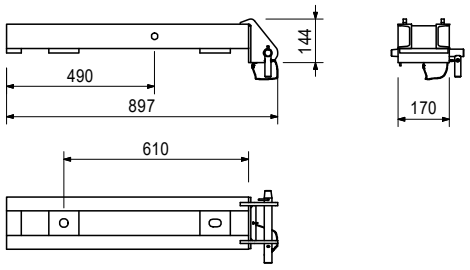
Consists of

1 pc 715585 Lock.PinØ25x240mm SKS 150 coat
1 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
109567	20.200	**Slab Shoe RCS**

Anchor System M24. For mounting Climbing Shoe RCS to slab edges.



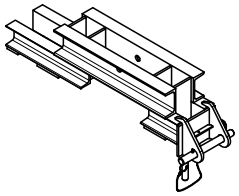


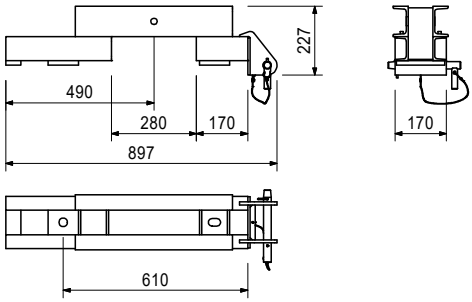
Consists of

1 pc 715585 Lock.PinØ25x240mm SKS 150 coat
1 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
110375	30.800	**Climbing Shoe RCS Corner**

Anchor System M24. For mounting Climbing Shoe RCS to the corners of slab edges.



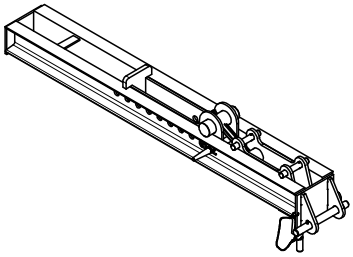


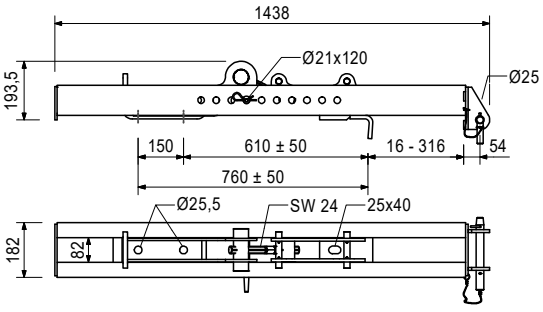
Consists of

1 pc 715585 Lock.PinØ25x240mm SKS 150 coat
1 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
115570	54.400	**Slab Shoe RCS 30 adjustable**

Anchor System M24. For mounting the Climbing Shoe RCS to slab edges. Offset up to 30 cm. Anchor distance variable 61 ± 5 cm or 76 ± 5 cm.



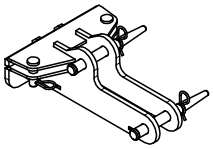


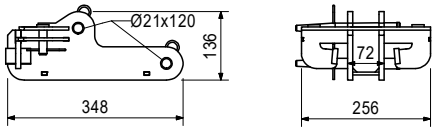
Consists of

1 pc 715585 Lock.PinØ25x240mm SKS 150 coat
1 pc 104031 Fitting Pin Ø21x120mm
2 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
115918	9.380	**Slab Shoe Adaptor RCS/AV/SLS**

Mounted on the Slab Shoe RCS and serves for connecting Kicker AV or SLS Spindles and Bracing DW15.



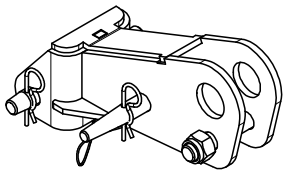


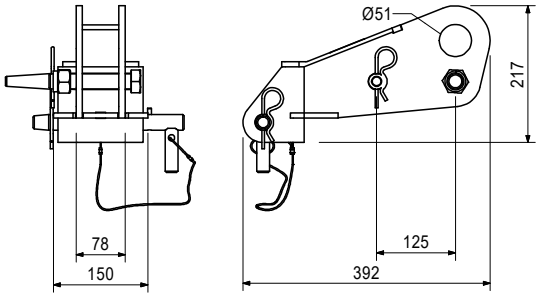
Consists of

2 pc 104031 Fitting Pin Ø21x120mm
2 pc 027170 Pin Ø16x42mm ga
4 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
115850	11.200	**Slab Support Adaptor RCS**

For attaching the Climbing Shoe RCS to a slab support with horizontal Climbing Rail RCS.



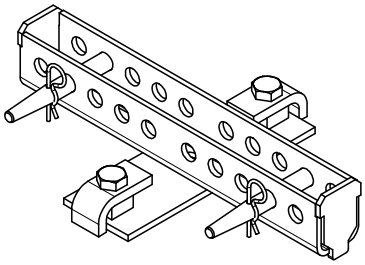


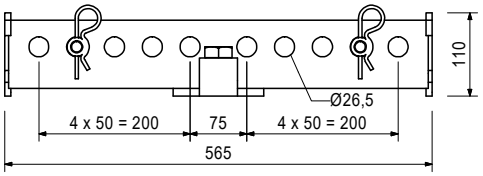
Consists of

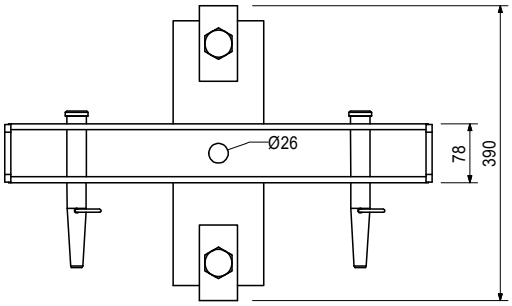
1 pc 715585 Lock.PinØ25x240mm SKS 150 coat
1 pc 111567 Fitting Pin Ø26x120mm
2 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
112359	15.000	**Slab Supp. Anchor Shoe RCS M24**

Anchor System M24. For anchoring the slab support with horizontal Climbing Rail RCS.







Accessory (not included)

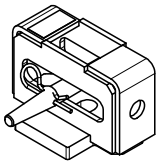
026430	0.334	**Screw ISO4014-M24x070-10.9**

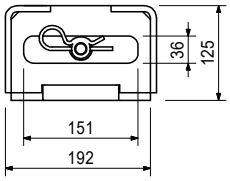
Consists of

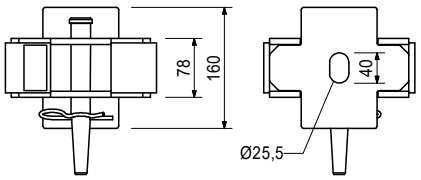
2 pc 111567 Fitting Pin Ø26x120mm
2 pc 022230 Cotter Pin 5/1 ga
2 pc 026290 Screw ISO4017-M24x050-10.9

Art no.	Weight [kg]	
116538	6.900	**Slab Supp. Alignment Shoe RCS**

As compression point and for alignment of the slab support with horizontal Climbing Rail RCS. Fixation with the Anchor Bolt Ø14/20x130mm or the anchor system M24.







Accessory (not included)

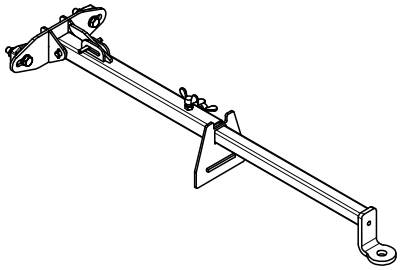
124777	0.210	**Anchor Bolt SW24 Ø14/20x130mm**

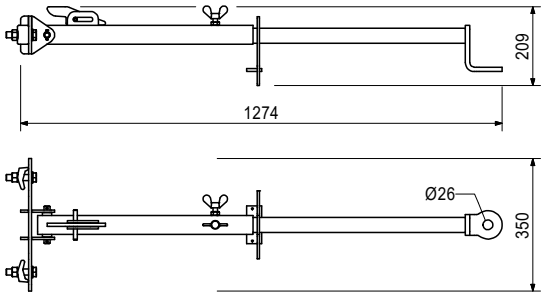
Consists of

1 pc 111567 Fitting Pin Ø26x120mm
1 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
114947	12.600	**Slab Anchor Template RCS 61**

For positioning the Advancing Bolt M24 for the Slab Shoe RCS. Fixed on the stopend formwork.





Accessory (not included)

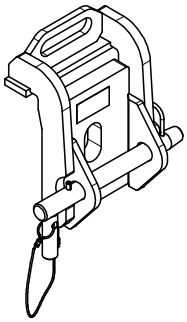
029270	0.331	**Advancing Screw M24 ga**

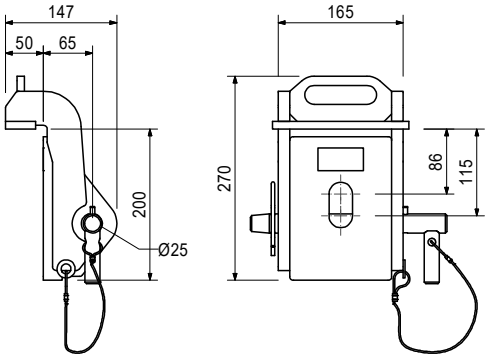
Consists of

1 pc 112815 Clamping Plate M16 Nova Grip
1 pc 115112 Screw DIN316-M12x25-GT-ga
1 pc 710229 Hex-Nut ISO4032-M16-8-ga
1 pc 711074 Washer ISO7089-16-200HV-ga
1 pc 714093 Screw ISO4014-M16x070-8.8-ga

Art no.	Weight [kg]	
113232	10.500	**Stopend Slab Shoe RCS M30**

Anchor System M30. For anchoring the Climbing Shoe RCS at the front end of the slab. With the Reduction Bush Ø30 – Ø25, Item no. 113822, also usable with Anchor System M24.





Accessory (not included)

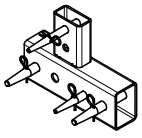
029420	0.590	**Screw ISO4017-M30x070-8.8-ga**

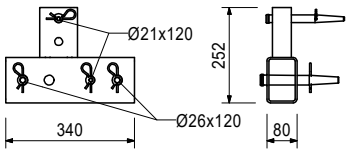
Consists of

1 pc 113247 Locking Pin Ø25x260mm comp
1 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
117763	8.570	**Head Adaptor RCS/SRU**

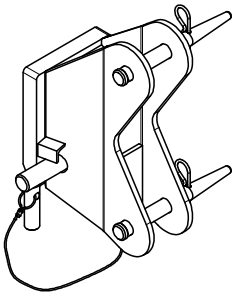
For vertical connection of Steel Ledger SRU to Climbing Rail RCS.

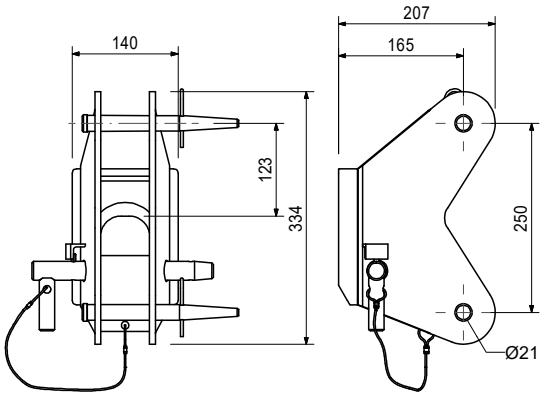




Art no.	Weight [kg]	
110315	11.000	**Mounting Ring Adapter RCS M30**

For suspension with Scaffold Mounting Ring M30 during use as unguided climbing formwork.





Accessory (not included)

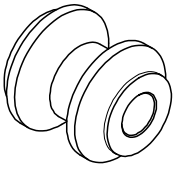
029480	1.830	**Scaff. Mount. Ring M30 ga**

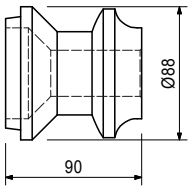
Consists of

1 pc 715585 Lock.PinØ25x240mm SKS 150 coat
2 pc 104031 Fitting Pin Ø21x120mm
2 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
029480	1.830	**Scaff. Mount. Ring M30 ga**

Anchor system M30. For anchoring climbing systems.





Accessory (not included)

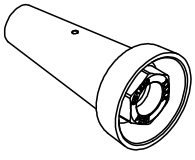
029540	0.920	**Screw ISO4014-M30x130-10.9**

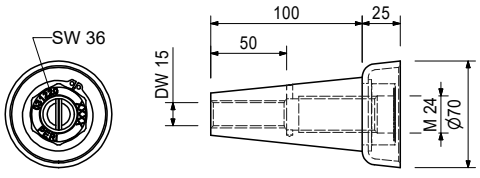
Art no.	Weight [kg]	
031220	1.050	**Climbing Cone-2 DW15 M24 ga**

Anchor System M24. For anchoring climbing systems.

Notes

Seperate design information on request.





Accessory (not included)

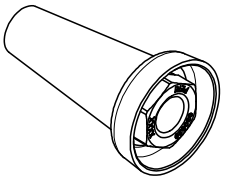
030840	0.515	**Threaded Anchor Plate DW15**
030030	1.440	**Tie Rod DW15 spec. Length**
030740	1.550	**Tie Rod B15 spec. Length**

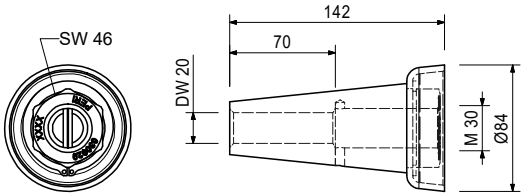
Art no.	Weight [kg]	
030920	1.650	**Climbing Cone-2 DW 20 M30 ga**

Anchor System M30. For anchoring climbing systems.

Notes

Separate Design Information on request.





Accessory (not included)

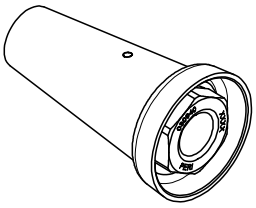
030860	0.792	**Threaded Anchor Plate DW20**
030700	2.560	**Tie Rod DW20 spec. Length**
030745	2.600	**Tie Rod B20 spec. Length**

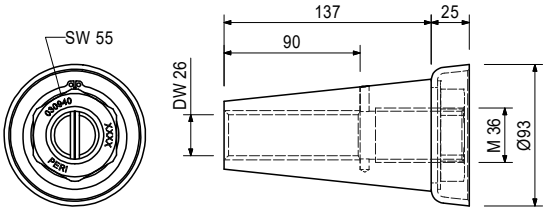
Art no.	Weight [kg]	
030940	2.980	**Climbing Cone-2 DW26 M36 ga**

Tie System M36. For anchoring of climbing systems.

Notes

Separate Design Information on request.





Accessory (not included)

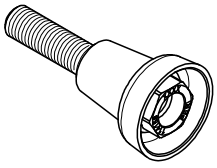
030870	1.260	**Threaded Anchor Plate DW26**
030340	4.480	**Tie Rod DW26 spec. Length**
029430	0.930	**Screw ISO4017-M36x070-8.8-ga**

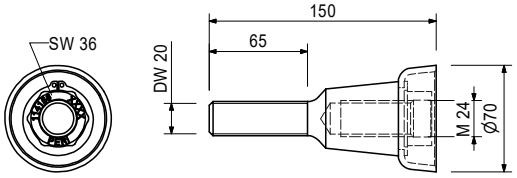
Art no.	Weight [kg]	
114158	1.030	**Screw-On Cone-2 DW20 M24 ga**

Anchor System M24. For anchoring climbing systems.

Notes

Seperate design information on request.





Accessory (not included)

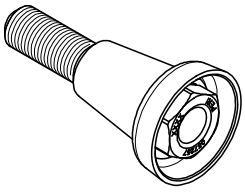
030860	0.792	**Threaded Anchor Plate DW20**

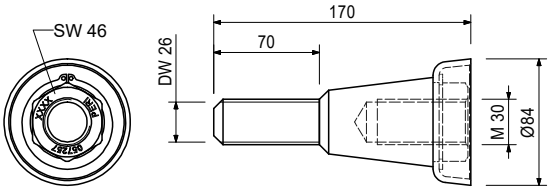
Art no.	Weight [kg]	
057257	1.810	**Screw-On Cone DW26 M30**

Anchor System M30. For anchoring climbing systems.

Notes

Separate dimensioning information on request.





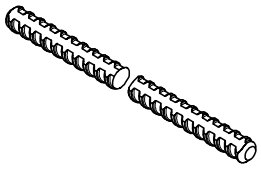
Accessory (not included)

030870	1.260	**Threaded Anchor Plate DW26**

Art no.	Weight [kg]	
		Tie Rods DW 15
030050	0.000	**Cutting Cost DW15/B15**
030005	0.720	**Tie Rod DW15 0.5m**
030010	1.230	**Tie Rod DW15 0.85m**
030480	1.440	**Tie Rod DW15 1m**
030490	1.730	**Tie Rod DW15 1.2m**
030170	2.160	**Tie Rod DW15 1.5m**
030020	2.450	**Tie Rod DW15 1.7m**
030180	2.880	**Tie Rod DW15 2m**
030710	3.600	**Tie Rod DW15 2.5m**
030720	4.320	**Tie Rod DW15 3m**
030730	5.040	**Tie Rod DW15 3.5m**
030160	8.640	**Tie Rod DW15 6m**
030030	1.440	**Tie Rod DW15 spec. Length**

Notes

Non-weldable! Observe the permissions! Permissible tension force 90 kN.

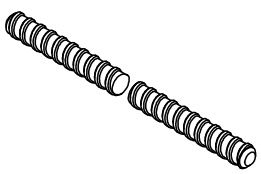




Art no.	Weight [kg]	
		Tie Rods B15
030050	0.000	**Cutting Cost DW15/B15**
030150	0.420	**Tie Rod B15 L=0.30m**
030740	1.550	**Tie Rod B15 spec. Length**

Notes

Weldable! Observe the permissions! Permissible tension force 85 kN.

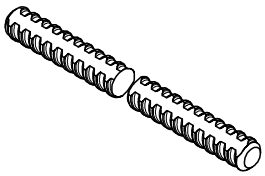




Art no.	Weight [kg]	
		Tie Rods DW 20
030800	0.000	**Cutting Costs DW20/B20**
030640	1.280	**Tie Rod DW20 0.5m**
030641	2.560	**Tie Rod DW20 1m**
030680	15.400	**Tie Rod DW20 6m**
030700	2.560	**Tie Rod DW20 spec. Length**

Notes

Non-weldable! Observe the permissions! Permissible tension force 150 kN.

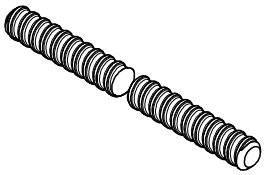




Art no.	Weight [kg]	
		Tie Rods B20
030800	0.000	**Cutting Costs DW20/B20**
030745	2.600	**Tie Rod B20 spec. Length**

Notes

Weldable! Observe the permissions! Permissible tension force 150 kN.

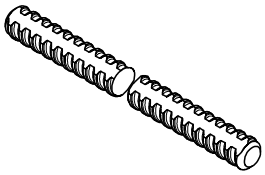




Art no.	Weight [kg]	
		Tie Rods DW26
030500	0.000	**Cutting Costs DW26**
030645	2.240	**Tie Rod DW26 0.5m**
030646	4.480	**Tie Rod DW26 1m**
030340	4.480	**Tie Rod DW26 spec. Length**

Notes

Non-weldable! Take official approval into consideration! Permissible tension force 250 kN.



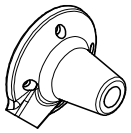


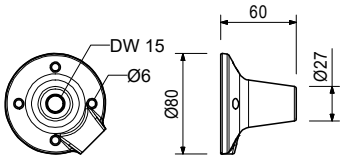
Art no.	Weight [kg]	
030840	0.515	**Threaded Anchor Plate DW15**

For use with Tie Rod DW15 or B15. For anchoring in concrete.

Notes

Lost anchor part.



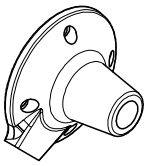


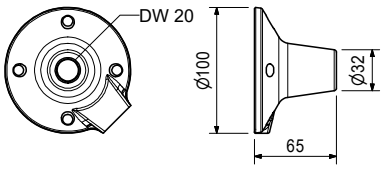
Art no.	Weight [kg]	
030860	0.792	**Threaded Anchor Plate DW20**

For use with Tie Rod DW20, B20 or Screw-On Cone-2 M24/DW20. For anchoring in concrete.

Notes

Lost anchor part.



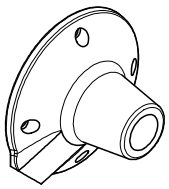


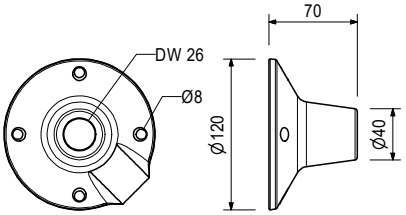
Art no.	Weight [kg]	
030870	1.260	**Threaded Anchor Plate DW26**

For use with Tie Rod DW26 or Screw-On Cone M36/DW26. For anchoring in concrete.

Notes

Lost anchor part.



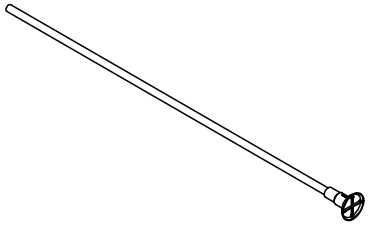


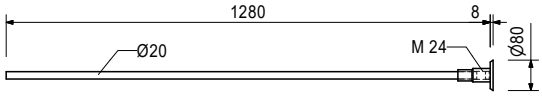
Art no.	Weight [kg]	
113820	3.450	**Stopend Slab Anchor M24/20-128**

Anchor System M24 or M30. For transferring clear tension forces into the slab with the use of Slab Stopend Shoe RCS. Inclusive Positioning Plate M24 (grey) or M30 (red).

Notes

Separate design information on request.



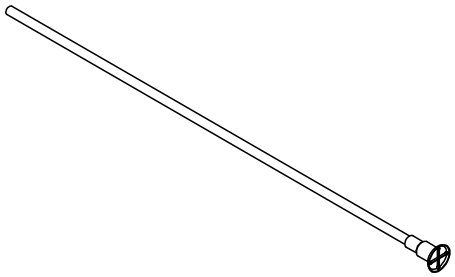


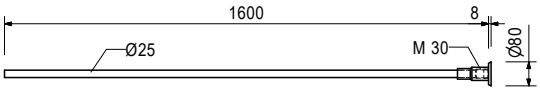
Art no.	Weight [kg]	
113821	6.700	**Stopend Slab Anchor M30/25-160**

Tie System M24 or M30. For transferring clear tension forces into the slab with the use of Front Slab Shoe RCS. With Steckteller M24 (grey) and M30 (red).

Notes

Permissible load: see PERI product information.



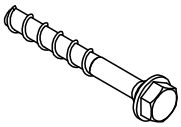


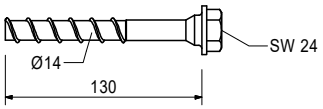
Art no.	Weight [kg]	
124777	0.210	**Anchor Bolt SW24 Ø14/20x130mm**

For temporary attachment to reinforced concrete components.

Notes

Take the PERI Data Sheet into consideration!
Hole Ø14mm.



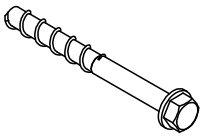


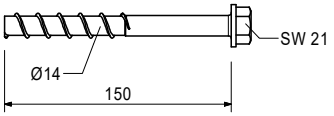
Art no.	Weight [kg]	
132889	0.213	**Anchor Bolt SW21 Ø14x150mm**

For temporary attachment to reinforced concrete components.

Notes

Take the PERI Data Sheet into consideration!
Hole Ø=14mm.



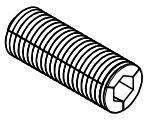


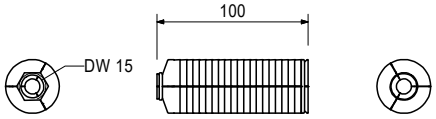
Art no.	Weight [kg]	
108795	0.450	**Rock Anchor HB DW15**

For subsequent anchoring with DW15 tie rods.

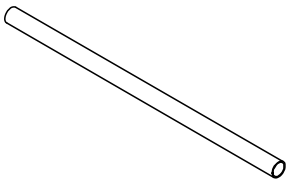
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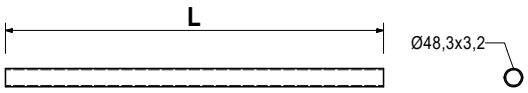
Follow Instructions for Use!
Permissible load 90 kN.
Drill hole Ø=36,5-38mm.





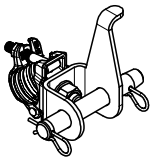
Art no.	Weight [kg]		L [mm]
		Scaff. Tubes 48.3x3.2mm ga	
026417	0.000	**Cutting Costs Scaffold Tube**	1
125976	8.900	**Scaff. Tube 48,3x3,2mm 2,5m ga**	2500
114287	12.500	**Scaff. Tube 48,3x3,2mm 3,5m ga**	3500
026411	3.550	**Scaff. Tube 48.3x3.2mm 1m ga**	1000
026412	7.100	**Scaff. Tube 48.3x3.2mm 2m ga**	2000
026413	10.650	**Scaff. Tube 48.3x3.2mm 3m ga**	3000
026414	14.200	**Scaff. Tube 48.3x3.2mm 4m ga**	4000
026419	17.750	**Scaff. Tube 48.3x3.2mm 5m ga**	5000
026418	21.600	**Scaff. Tube 48.3x3.2mm 6m ga**	6000
026415	3.550	**Scaff. Tube 48.3x3.2mm lfm ga**	1000

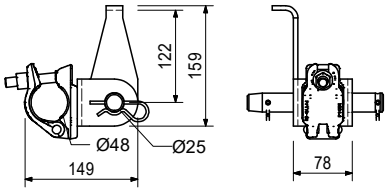




Art no.	Weight [kg]	
110084	2.510	**Scaffold Tube Adaptor Ø48 RCS**

For connecting Scaffold Tubes Ø48mm to Climbing Rails RCS.



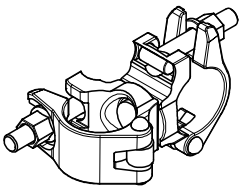


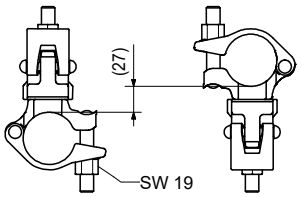
Consists of

1 pc 017040 Half Coupler w. Bolt DK48 ga
1 pc 710894 Pin Ø25x180mm coat
2 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
017010	1.400	**Swivel Coupler SW Ø48/48mm ga**

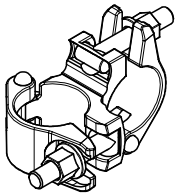
For Scaffold Tubes Ø48mm.

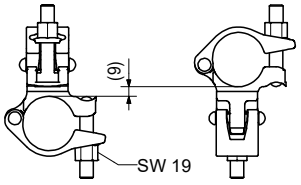




Art no.	Weight [kg]	
017020	1.120	**Standard Coupl. RA Ø48/48mm ga**

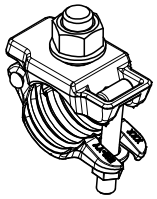
For Scaffold Tubes Ø48mm.

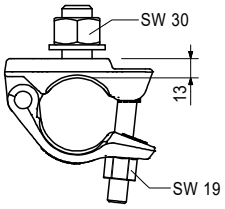




Art no.	Weight [kg]	
131404	1.080	**Screw-On Cou.-2 HT B Ø48mm M20**

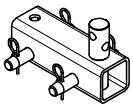
For Screwing Scaffold Tubes Ø48mm to components up to 9mm thickness.

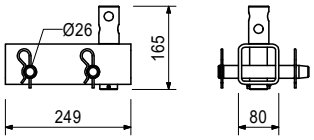




Art no.	Weight [kg]	
123534	5.910	**Brace Connector RCS/DW15, M20**

For mounting diagonal bracing with Tie Rod DW15 and a compression strut to the Climbing Rail RCS.

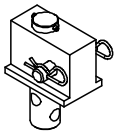


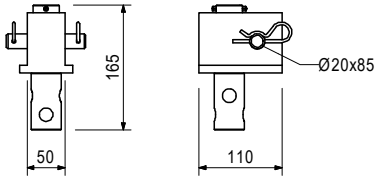


Consists of

2 pc 710894 Pin Ø25x180mm coat
4 pc 018060 Cotter Pin 4/1 ga

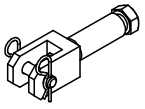
Art no.	Weight [kg]	
117766	4.450	**Bracing Connector SRU/DW15**

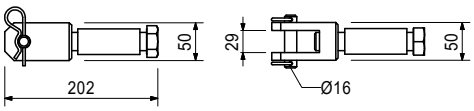




Art no.	Weight [kg]	
115626	1.880	**Kicker Connector RCS M24**

Bolted in holes Ø26 of the Climbing Rail RCS.Serves for connecting Kicker AV or Bracing DW15.





Consists of

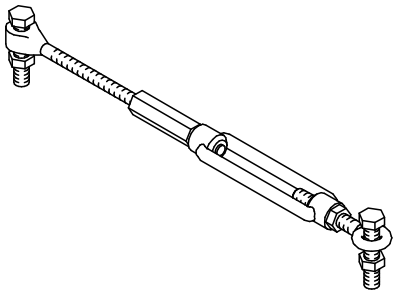
1 pc 115916 Bolt Ø16X70mm coat
2 pc 018060 Cotter Pin 4/1 ga
1 pc 109612 Screw ISO4014-M24x130-8.8-ga

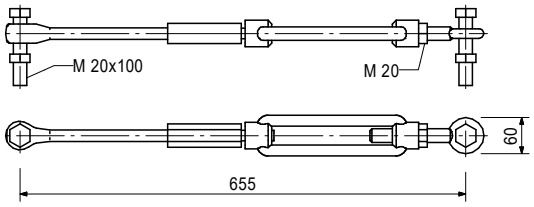
Art no.	Weight [kg]	
057083	3.820	**Bracing ACS DW15**

For bracing scaffolds. For bracing large VARIO GT 24 Elements.

Notes

Tie Rod DW15 must be ordered seperately. Transport dimension 655.





Accessory (not included)

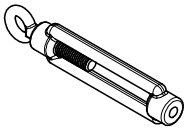
030030	1.440	**Tie Rod DW15 spec. Length**
030050	0.000	**Cutting Cost DW15/B15**

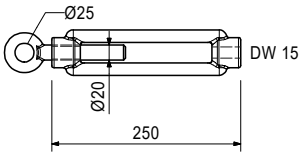
Consists of

1 pc 037150 Tie Yoke DW15
1 pc 030090 Hex-Nut DW15 SW30/108 ga
1 pc 701335 Tie Rod DW15 0.1m
1 pc 711059 Turnbuckle CB coat
1 pc 711060 Eyebolt M20 left coat
1 pc 057263 Hex-Nut ISO4032-M20-8-ga-left
2 pc 024910 Screw ISO4014-M20x100-8.8-ga
2 pc 710334 Hex-Nut ISO4032-M20-8-ga-left

Art no.	Weight [kg]	
116807	1.850	**Turnbuckle CB Ø25-M20/DW15**

For tensioning of Tie Rod DW15.



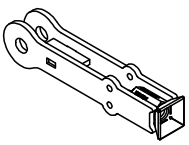


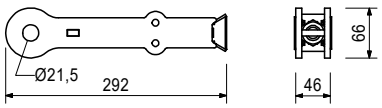
Consists of

1 pc 711059 Turnbuckle CB coat
1 pc 711060 Eyebolt M20 left coat

Art no.	Weight [kg]	
116532	1.890	**Tie Yoke VARIOKIT Ø22 DW15**

For assembling in Steel Waler SRU.

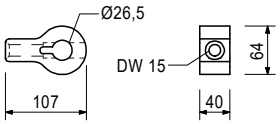




Art no.	Weight [kg]	
115378	1.080	**Eye Nut RCS DW15**

As an articulated connection to the Climbing Rail RCS, Steel Waler SRU for bracing with DW15.



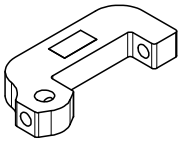


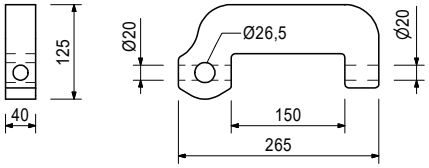
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

Art no.	Weight [kg]	
115375	6.100	**Articulated Spanner RCS DW15**

For tensioning and as an articulated connection to the Climbing Rail RCS, Steel Waler SRU or Bracing Shoe RCS for bracing with DW15.



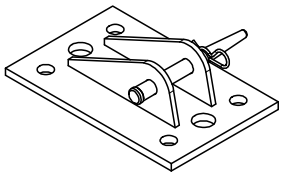


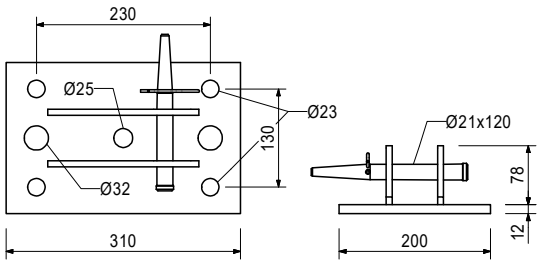
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**
030030	1.440	**Tie Rod DW15 spec. Length**

Art no.	Weight [kg]	
114997	7.160	**Bracing Shoe RCS DW15**

For anchoring the bracing with DW15 to the building slab. Fixation with Anchor System M24 or corresponding dowels.





Consists of

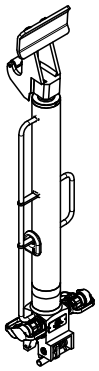
1 pc 104031 Fitting Pin Ø21x120mm
1 pc 018060 Cotter Pin 4/1 ga

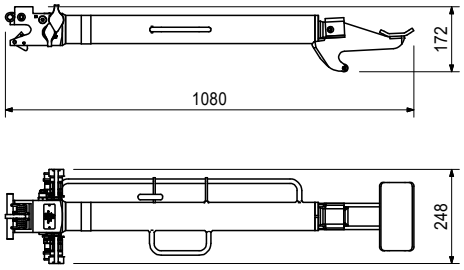
Art no.	Weight [kg]	
135413	27.000	**Climbing Device-2 RCS 50**

For crane-independent climbing of RCS Climbing Units.

Notes

Follow Assembly Instructions of the manufacturer!



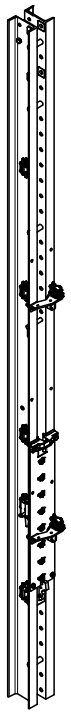


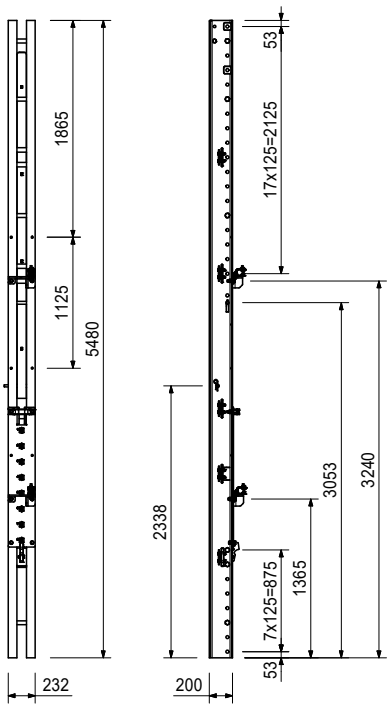
Art no.	Weight [kg]	
136110	395.000	**Driving Rail RCS C MAX**

For simultaneous climbing of Self-Climbing Formwork System RCS C MAX in conjunction with networked Hydraulic Pumps RCS MAX

Notes

After mounting the climbing cylinder, insert Pin Ø26x120mm into the parking position for securing the inner rail during transport. For the installation of the climbing cylinder, the cylinder fixing must be removed.
Follow Assembly Instructions!





Accessory (not included)

136107	41.400	**Climbing Cylinder RCS MAX 75**

Consists of

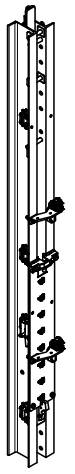
1 pc 111567 Fitting Pin Ø26x120mm
1 pc 123692 Lock Pin Ø25x200mm SCS coat
2 pc 022230 Cotter Pin 5/1 ga
1 pc 110022 Spacer M20 82mm
4 pc 110023 Spacer M24 82mm
1 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 057138 Screw ISO4014-M24x160-8.8-ga
2 pc 130342 Hex-Nut ISO7042-M24-8-ga
8 pc 070890 Hex-Nut ISO7040-M16-8-ga
21 pc 710381 Hex-Nut ISO7040-M12-8-ga
1 pc 710224 Screw ISO4017-M12x040-8.8-ga
20 pc 710221 Screw ISO4014-M12x060-8.8-ga
6 pc 108546 Screw ISO4017-M16x060-8.8-ga
2 pc 721729 Screw ISO4014-M16x090-8.8-ga
8 pc 711074 Washer ISO7089-16-200HV-ga
14 pc 710880 Washer DIN434-18-ga

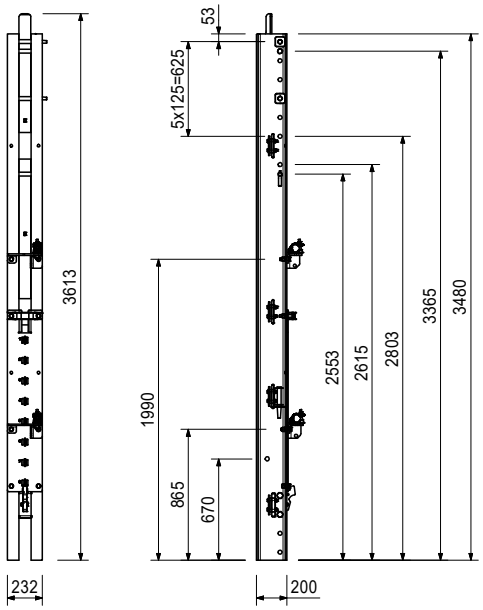
Art no.	Weight [kg]	
136111	268.000	**Driving Rail RCS CL MAX**

For simultaneous climbing of Self-Climbing Formwork System RCS CL MAX in conjunction with networked Hydraulic Pumps RCS MAX.

Notes

After mounting the climbing cylinder, insert Pin Ø26x120mm into the parking position for securing the inner rail during transport. For the installation of the climbing cylinder, the cylinder fixing must be removed.
Follow Assembly Instructions!





Accessory (not included)

136107	41.400	**Climbing Cylinder RCS MAX 75**

Consists of

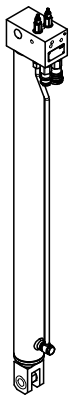
3 pc 111567 Fitting Pin Ø26x120mm
1 pc 123692 Lock Pin Ø25x200mm SCS coat
4 pc 022230 Cotter Pin 5/1 ga
1 pc 110022 Spacer M20 82mm
1 pc 109612 Screw ISO4014-M24x130-8.8-ga
1 pc 057138 Screw ISO4014-M24x160-8.8-ga
2 pc 130342 Hex-Nut ISO7042-M24-8-ga
8 pc 070890 Hex-Nut ISO7040-M16-8-ga
17 pc 710381 Hex-Nut ISO7040-M12-8-ga
1 pc 710224 Screw ISO4017-M12x040-8.8-ga
16 pc 710221 Screw ISO4014-M12x060-8.8-ga
2 pc 721729 Screw ISO4014-M16x090-8.8-ga
6 pc 108546 Screw ISO4017-M16x060-8.8-ga
8 pc 711074 Washer ISO7089-16-200HV-ga
14 pc 710880 Washer DIN434-18-ga

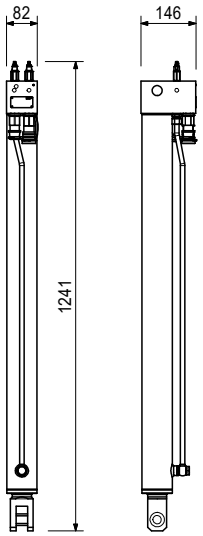
Art no.	Weight [kg]	
136107	41.400	**Climbing Cylinder RCS MAX 75**

Hydraulic Cylinder for Driving Rail RCS C MAX or Driving Rail RCS CL MAX.

Notes

Follow Assembly Instructions of the manufacturer!
After mounting the climbing cylinder, insert Pin Ø26x120mm into the parking position for securing the inner rail during transport.
Max. stroke length 90cm (effective 75cm).
Nominal lifting force 50 kN (max. static 65 kN).
Max. operating pressure 210 bar.
Ready for operation with Hydraulic Unit RCS MAX 2x210 bar, 380-460V.



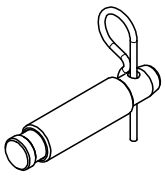


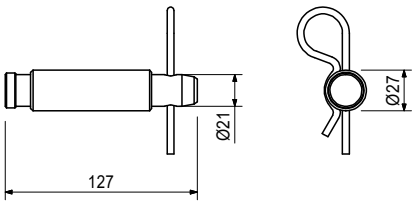
Accessory (not included)

136110	395.000	**Driving Rail RCS C MAX**
136111	268.000	**Driving Rail RCS CL MAX**

Art no.	Weight [kg]	
136109	0.472	**Pin Set RCS MAX**

For Creation of 250mm pin pattern in the Climbing Rail RCS.





Consists of

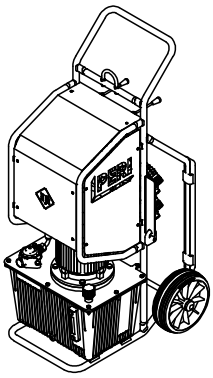
1 pc 136289 Sleeve 26.9x2.6x80 coat
1 pc 022230 Cotter Pin 5/1 ga

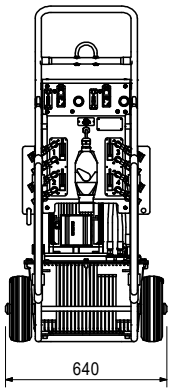
Art no.	Weight [kg]	
109766	109.000	**Hydr.Pump RCS 4x190/380-460V**

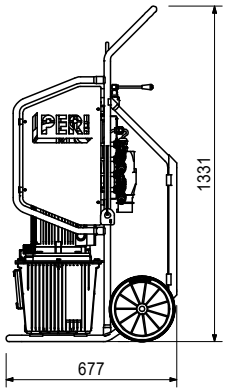
Hydraulic pump for actuating the Climbing Device RCS 50 and LPS 30.

Notes

Follow Instructions for Use.
Use only original PERI Hydraulic Oil.







Accessory (not included)

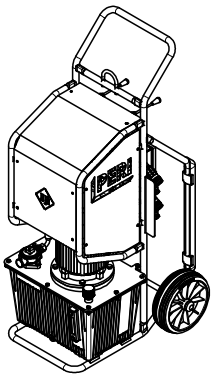
057376	18.300	**Hydr.Oil ISO11158 HVI46 20l**

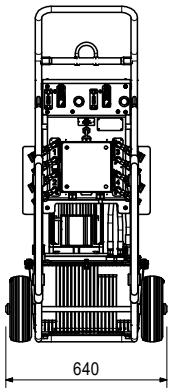
Art no.	Weight [kg]	
114243	109.000	**Hydr.Pump RCS 4x190/460V CSA**

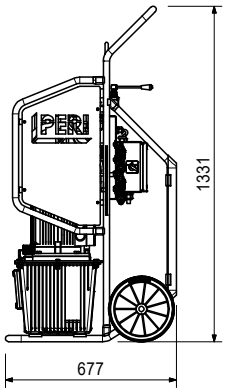
Hydraulic pump for actuating the Climbing Device RCS 50.

Notes

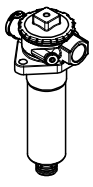
Use only in Canada.
Follow Instructions for Use!
Only use original PERI Hydraulic Oil HV LP46.

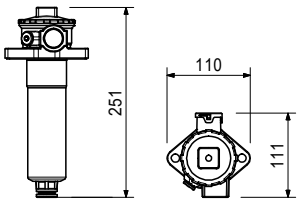






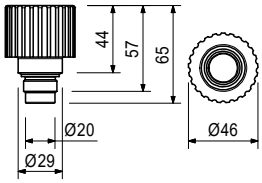
Art no.	Weight [kg]	
130528	0.500	**Return Oil Filter Pump RCS**





Art no.	Weight [kg]	
130529	0.600	**Ventilation Filter Pump RCS**



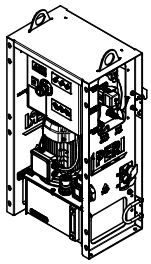


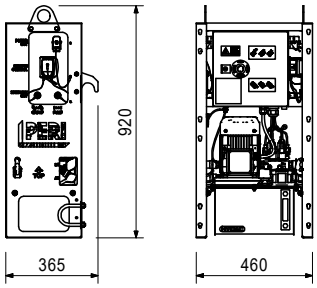
Art no.	Weight [kg]	
135500	47.000	**Hydr.P. RCS MAX 2x210/380-460V**

Hydraulic Pump for driving two Climbing Devices RCS MAX 75 or Climbing Device-2 RCS 50.
Connecting several units enables synchronous climbing of all climbing units.

Notes

Follow Assembly Instructions of the manufacturer!
See PERI Product Information.
Only use original PERI Hydraulic Oil.





Accessory (not included)

135606	0.100	**Return Filter RCS MAX**
135607	0.100	**Tank Breather Filter RCS MAX**
137281	14.000	**Hydr.Oil Filter Pump CE**
137282	1.000	**Hydr.Oil Filterelement 500**
137283	1.000	**Suction-/Pressure Hose 250**

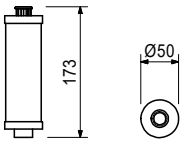
Art no.	Weight [kg]	
135606	0.100	**Return Filter RCS MAX**

Spare part for Hydraulic Pump RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!





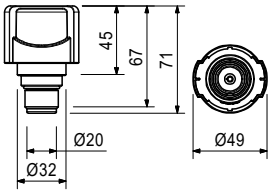
Art no.	Weight [kg]	
135607	0.100	**Tank Breather Filter RCS MAX**

Spare part for Hydraulic Pump RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!



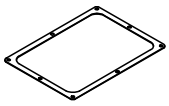


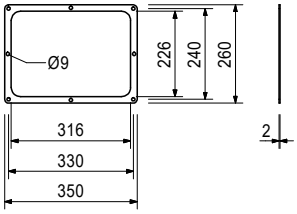
Art no.	Weight [kg]	
136597	0.050	**Gasket Hydr. Tank RCS MAX**

Spare part for Hydraulic Pump RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions!





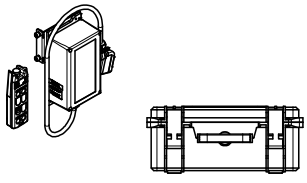
Art no.	Weight [kg]	
136530	5.080	**Remote Contr. RCS MAX wireless**

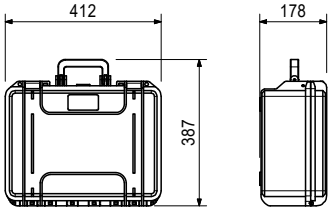
For a wireless operation of RCS MAX pumps.

Notes

Follow Assembly Instructions of the manufacturer!

Scope of delivery:
1 pc. Remote Control RCS MAX wireless
1 pc. Receiver paired with Remote Control RCS MAX wireless
1 pc. Battery charger with base adapters
2 pc. Chargeable batteries
1 pc. case remote control RCS MAX
2 pc. Magnetic keys
1 pc. Protective casing with harmess





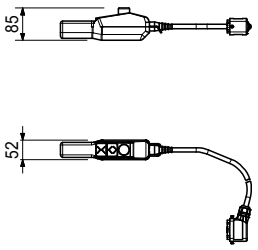
Art no.	Weight [kg]	
135506	2.500	**Remote Contr. RCS MAX 1500**

Remote control for the simultaneous operation of a climbing unit.

Notes

Follow Assembly Instructions of the manufacturer!



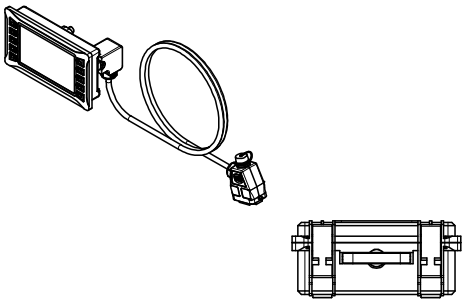


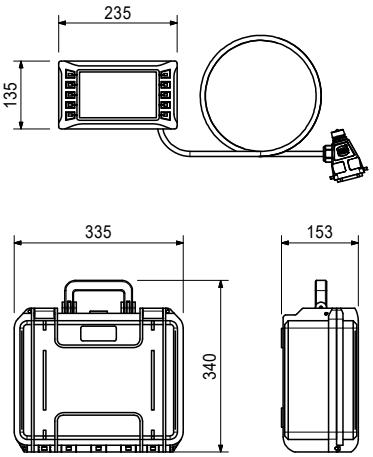
Art no.	Weight [kg]	
135507	3.360	**Display RCS MAX**

For displaying extended information and monitoring of interconnected Hydraulic power packs RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!
Cable length: 1.5m.



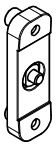


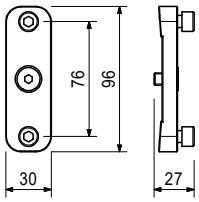
Consists of

1 pc 136675 Case Display RCS MAX

Art no.	Weight [kg]	
136043	0.058	**Display Holder RCS MAX**

For attachement of Display RCS MAX on the Power Unit RCS MAX 2x210 bar.





Consists of

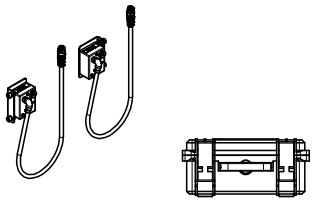
1 pc 136045 Screw ISO10642-M08x016-8.8-ga

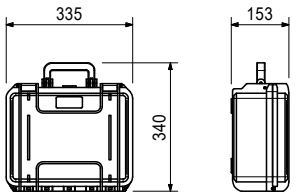
Art no.	Weight [kg]	
136531	2.330	**Data Conn. RCS MAX wireless**

For a wireless group connection between Hydraulic Pumps RCS MAX 2x210 bar.

Notes

Group IN and Group OUT modules are compatible paired.
Technical data see PERI Product Information.





Consists of

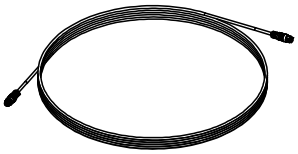
1 pc 136673 Case Data Conn. RCS MAX

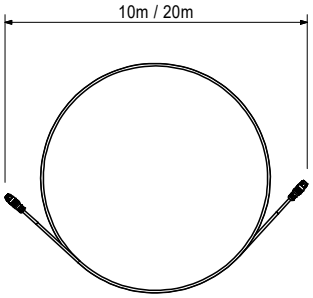
Art no.	Weight [kg]	
		Data Conn. Cables RCS MAX
135503	0.600	**Data Conn. Cable RCS MAX 10m**
135504	1.200	**Data Conn. Cable RCS MAX 20m**

For data connection between Hydraulic Pumps RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!





Accessory (not included)

135505	0.100	**Conn. Data Cable RCS MAX**

Art no.	Weight [kg]	
135505	0.100	**Conn. Data Cable RCS MAX**

For connecting two Data Connection Cables RCS MAX.

Notes

Follow Assembly Instructions of the manufacturer!

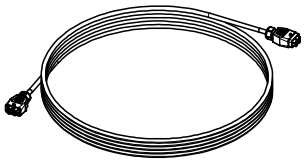


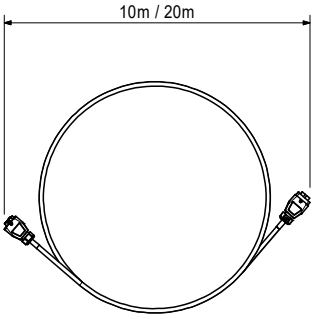
Art no.	Weight [kg]	
		Power Conn. Cables RCS MAX
135498	2.500	**Power Conn. Cable RCS MAX 10m**
135501	4.700	**Power Conn. Cable RCS MAX 20m**

For the power supply between max. 8 Hydraulic Pumps RCS MAX 2x210 bar.

Notes

Follow Assembly Instructions of the manufacturer!





Accessory (not included)

135502	0.200	**Conn. Power Cable RCS MAX**

Art no.	Weight [kg]	
135502	0.200	**Conn. Power Cable RCS MAX**

For connecting two Power Connection Cables RCS MAX.

Notes

Follow Assembly Instructions of the manufacturer!

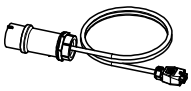


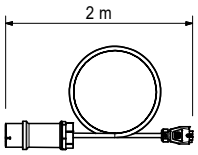
Art no.	Weight [kg]	
135499	0.800	**Power Cab. RCS MAX CEE-32A 2m**

For connecting max. 8 Hydraulic Pumps RCS MAX 2x210 bar to the power supply.

Notes

Follow Assembly Instructions of the manufacturer!
With CEE-Plug 400 V, 32 A. Manual phase inverter inside.





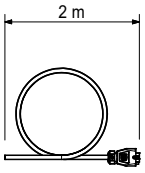
Art no.	Weight [kg]	
136532	0.400	**Power Cable RCS MAX 2m**

For making a country specific power cable.

Notes

Follow Assembly Instructions of the manufacturer!
To connect a country-specific connector to the cable. Only qualified electricians are permitted to work on and repair electrical components.



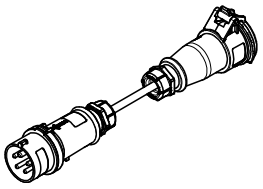


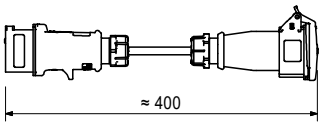
Art no.	Weight [kg]	
110280	0.500	**Adapter Cable RCS**

For the power supply to the Hydraulic Pump RCS.

Notes

Follow Instructions for Use!
With CEE plug connector 400 V 16 A.





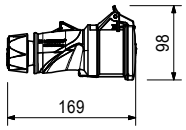
Art no.	Weight [kg]	
110279	0.291	**Plug Socket RCS black**

For providing the power supply to the Hydraulic Pump RCS with 380–460 V, 50–60 Hz.

Notes

Follow Instructions for Use!





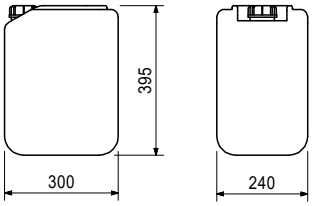
Art no.	Weight [kg]	
		Hydr.Oils ISO11158 in canister
131270	17.900	**Hydr.Oil ISO11158 HM10 20l**
131274	18.300	**Hydr.Oil ISO11158 HVI22 20l**
137373	18.300	**Hydr.Oil ISO11158 HVI32 20l**
057376	18.300	**Hydr.Oil ISO11158 HVI46 20l**

High-quality synthetic hydraulic oils for PERI Hydraulic Power Units with different viscosity suitable for certain temperature ranges.

Notes

Filter with filter pump before filling the aggregates.
Observe Safety Data Sheet and applicable National Safety Regulations regarding hydraulic oil, in particular for transport, storage and disposal! Observe the technical documentation for the hydraulic power unit! Product Data Sheet on request.



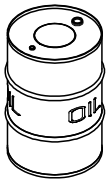


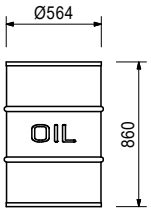
Art no.	Weight [kg]	
		Hydr.Oils ISO11158 in drum
131273	200.000	**Hydr.Oil ISO11158 HM10 210l**
131275	200.000	**Hydr.Oil ISO11158 HVI22 210l**
137374	201.000	**Hydr.Oil ISO11158 HVI32 210l**
131277	201.000	**Hydr.Oil ISO11158 HVI46 210l**

High-quality synthetic hydraulic oils for PERI Hydraulic Power Units with different viscosity suitable for certain temperature ranges.

Notes

Filter with filter pump before filling the aggregates.
Observe Safety Data Sheet and applicable National Safety Regulations regarding hydraulic oil, in particular for transport, storage and disposal! Observe the technical documentation for the hydraulic power unit! Product Data Sheet on request.



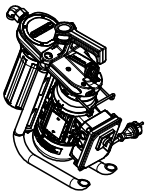


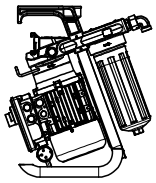
Art no.	Weight [kg]	
137281	14.000	**Hydr.Oil Filter Pump CE**

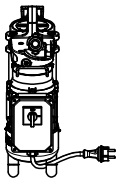
Filter pump for quick and clean transfer of hydraulic oil with simultaneous filtration.

Notes

Follow Instructions for Use!
Power connection 220V/50Hz, plug CEE 7/7







Accessory (not included)

137282	1.000	**Hydr.Oil Filterelement 500**
137283	1.000	**Suction-/Pressure Hose 250**

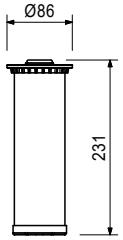
Art no.	Weight [kg]	
137282	1.000	**Hydr.Oil Filterelement 500**

Wear part of the Hydr.Oil Filter Pump CE.

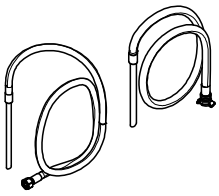
Notes

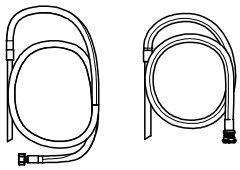
Follow Instruction for use!
Observe the maintenance instructions in the technical documentation for the oil filter pump!
Observe disposal instructions!





Art no.	Weight [kg]	
137283	1.000	**Suction-/Pressure Hose 250**

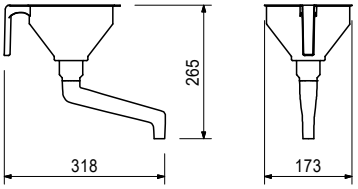




Art no.	Weight [kg]	
130685	0.225	**Universal Funnel**

For easy filling of hydraulic pumps with oil.



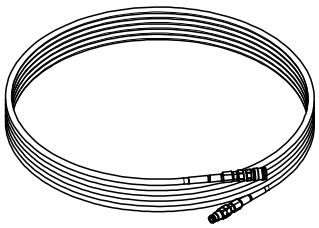


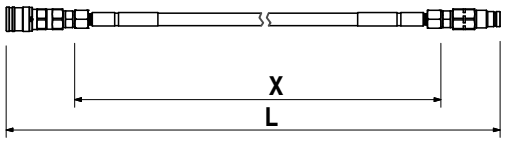
Art no.	Weight [kg]		L [mm]	X [mm]
		Hydr.Hoses 853-2SN-DN08-FF		
129035	0,996	**Hydr.Hose 853-2SN-DN08-FF 1m**	1169	1000
129036	1,430	**Hydr.Hose 853-2SN-DN08-FF 2m**	2169	2000
129419	2,690	**Hydr.Hose 853-2SN-DN08-FF 5m**	5170	5000
129420	4,900	**Hydr.Hose 853-2SN-DN08-FF 10m**	10170	10000
129421	7,120	**Hydr.Hose 853-2SN-DN08-FF 15m**	15170	15000
129422	9,330	**Hydr.Hose 853-2SN-DN08-FF 20m**	20170	20000

Hydraulic hoses with quick couplings and nominal diameter 8mm.

Notes

Follow applicable Safety Regulations for the installation and maintenance of hydraulic lines!



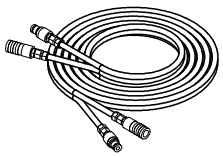


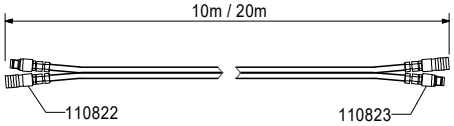
Consists of

1 pc 128992 Pin ISO16028 DN10 R3/8IG
1 pc 128993 Sleeve ISO16028 DN10 R3/8IG
2 pc 051750 Male Stud Coupl. X-GE12PSR-ED

Art no.	Weight [kg]	
		Hydr.Twin Hoses RCS
110069	8.500	**Hydr.Twin Hose RCS 10m**
110070	15.300	**Hydr.Twin Hose RCS 20m**

Two permanently connected hydraulic hoses for connecting hydraulic pumps with hydraulic climbing devices.

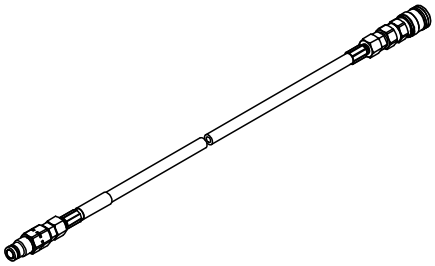


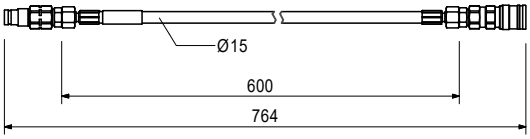


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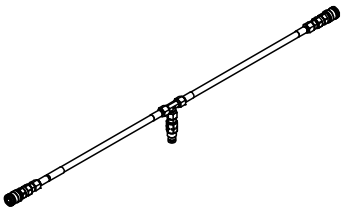
2 pc 128992 Pin ISO16028 DN10 R3/8IG
2 pc 128993 Sleeve ISO16028 DN10 R3/8IG
4 pc 051750 Male Stud Coupl. X-GE12PSR-ED

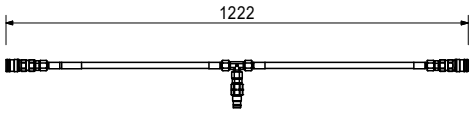
Art no.	Weight [kg]	
126646	0.651	**Bypass Hose RCS**





Art no.	Weight [kg]	
129423	1.370	**Hydr.T-Piece 2SN-DN08-FF**



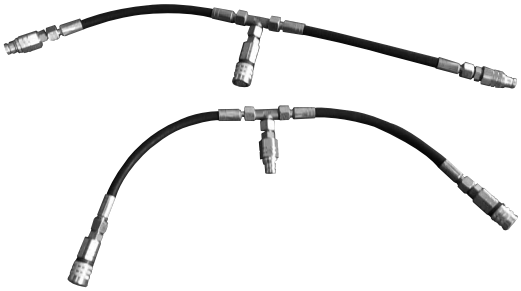


Consists of

3 pc 051750 Male Stud Coupl. X-GE12PSR-ED
2 pc 128993 Sleeve ISO16028 DN10 R3/8IG
1 pc 128992 Pin ISO16028 DN10 R3/8IG

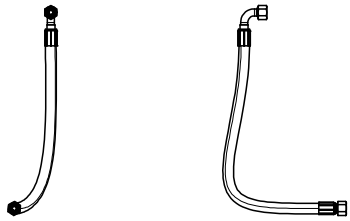
Art no.	Weight [kg]	
112421	3.000	**Hydr. Accum. Piece RCS**

To double the volume of the oil at the Hydraulic Pump RCS. Also doubles the speed of the Hydraulic Winch RCS.

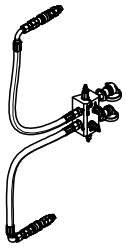


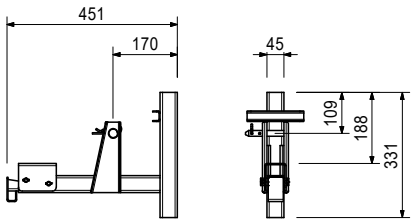
Art no.	Weight [kg]	
137400	0.350	**Hydr.Hose 2SN DN8 65 90°**





Art no.	Weight [kg]	
136533	3.400	**Conv. Set Climbing Device ACS**



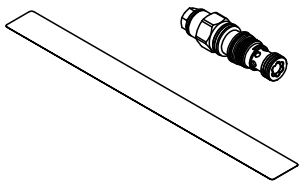


Art no.	Weight [kg]	
135411	1.000	**Conv. Set Climbing Device-2 RCS 50**

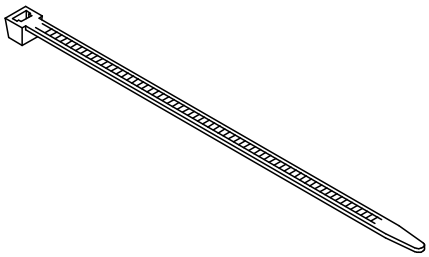
Conversion set for the modification of the Climbing Device RCS 50 in Climbing Device-2 RCS 50.

Notes

Observe conversion kit instructions at all times (see document DO-19-0265205).



Art no.	Weight [kg]	
137346	0.007	**Cable Binder 7,8x540mm**

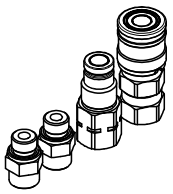


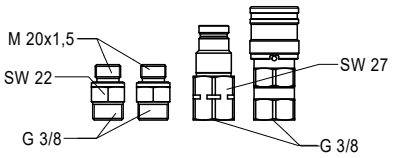
Art no.	Weight [kg]	
129424	0.440	**FF-Coupling Pair X-GE12PSR-ED+**

Spare parts set for PERI Hydraulic Components with quick couplings X-GE 12PSR-ED+.

Notes

For assembling on hydraulic hoses EN853-2SN-DN08.



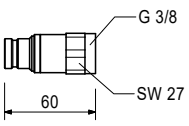


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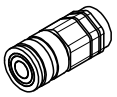
1 pc 128992 Pin ISO16028 DN10 R3/8IG
1 pc 128993 Sleeve ISO16028 DN10 R3/8IG
2 pc 051750 Male Stud Coupl. X-GE12PSR-ED

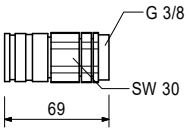
Art no.	Weight [kg]	
110823	0.171	**Quick Coupler Nipple RCS**





Art no.	Weight [kg]	
110822	0.297	**Quick Coupler Bushing RCS**



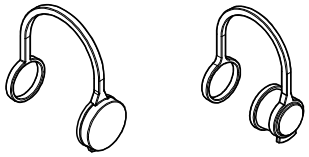


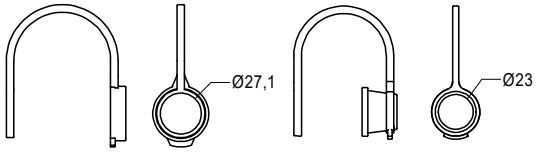
Art no.	Weight [kg]	
125632	0.050	**Prot. Covers Climb. Device RCS**

Spare part.
To protect unplugged quick couplings against dirt and damage.

Notes

Use with hydraulic hoses with FF couplings possible.
1 set for 1 Climbing Device RCS 50 (2x bushing and 2x nipple each).

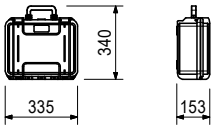




Art no.	Weight [kg]	
136673	1.700	**Case Data Conn. RCS MAX**

For packaging wireless RCS MAX group connections.

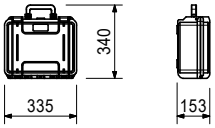




Art no.	Weight [kg]	
136675	1.700	**Case Display RCS MAX**

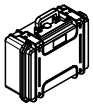
For packaging of RCS MAX display.

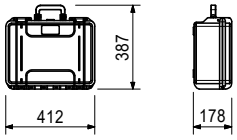




Art no.	Weight [kg]	
136674	2.300	**Case Remote Control RCS MAX**

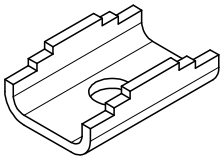
For packaging of wireless RCS MAX remote control.

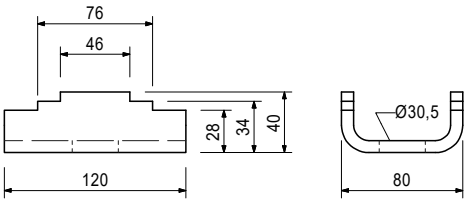




Art no.	Weight [kg]	
110055	0.861	**Cross Strap coat**

For fixing formwork at the Strongbacks by means of Tie Yokes DW15.



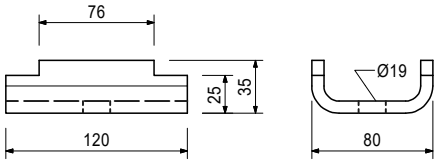


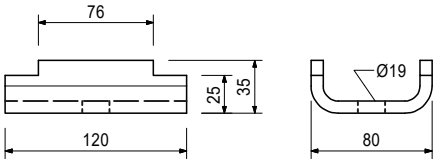
Accessory (not included)

030440	0.686	**Spherical Nut DW15 ga**

Art no.	Weight [kg]	
722137	0.849	**Cross Strap 2 coat**

For fixing formwork at the Strongbacks by means of Tie Yokes DW15.





Accessory (not included)

030100	0.439	**Wingnut DW15 ga**

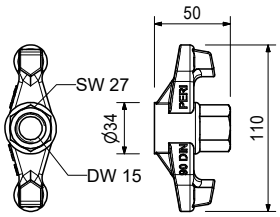
Art no.	Weight [kg]	
030100	0.439	**Wingnut DW15 ga**

For anchoring with Tie Rod DW15 and B15.

Notes

Permissible load 90 kN.





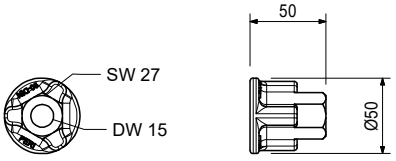
Art no.	Weight [kg]	
030130	0.318	**Cam Nut DW15 coat**

For anchoring with Tie Rod DW15 and B15.

Notes

Permissible load 90 kN.



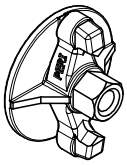


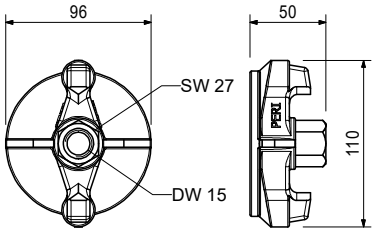
Art no.	Weight [kg]	
030110	0.799	**Wingnut Counterplate DW15 ga**

For anchoring with Tie Rod DW15 and B15.

Notes

Permissible load 90 kN.

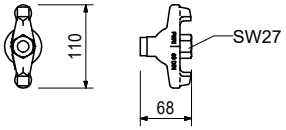




Art no.	Weight [kg]	
030440	0.686	**Sperical Nut DW15 ga**

For pivotable anchoring with Tie Rod DW15 and B15.



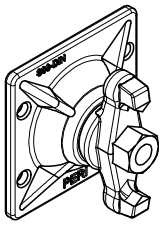


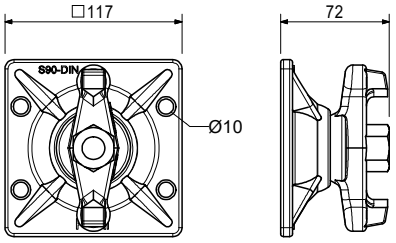
Art no.	Weight [kg]	
030370	1.660	**Wingnut Pivot Plate DW15 ga**

For anchoring with Tie Rod DW15 and B15.
With articulated, captive nut. Maximum inclination of anchor: 8°.

Notes

Wrench size SW27.
Permissible load 90 kN.





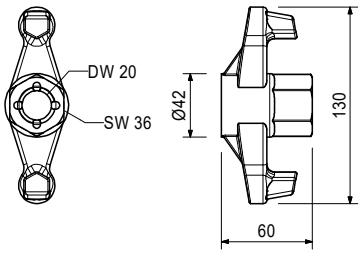
Art no.	Weight [kg]	
030990	0.786	**Wing Nut DW20 ga**

For anchoring with Tie Rod DW20 and B20.

Notes

Permissible load 150 kN.



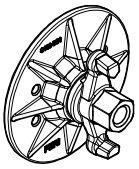


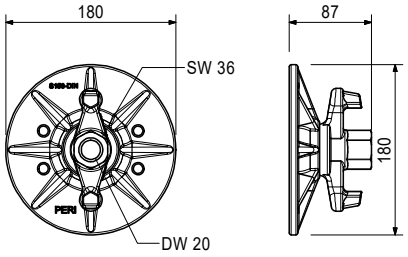
Art no.	Weight [kg]	
127587	3.210	**Wingnut Pivot Plate DW20 ga**

For anchoring with Tie Rod DW20. With pivoting captive nut. Maximum angle of tilting +/- 8°.

Notes

Permissible load 150 kN.

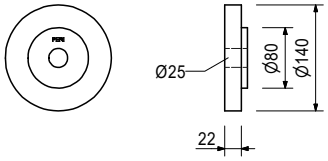




Art no.	Weight [kg]	
114082	2.860	**Counterplate RCS DW20**

Counterplate with centring for anchoring through the Climbing Rail RCS.

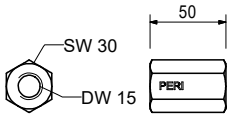




Art no.	Weight [kg]	
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**

For anchoring with Tie Rod DW15 and B15.





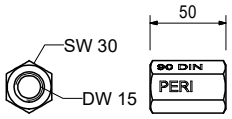
Art no.	Weight [kg]	
030550	0.233	**Hex-Nut DW15 SW30 50mm weldab**

For anchoring with Tie Rod DW15 and B15.

Notes

Weldable!
Permissible load 90 kN.



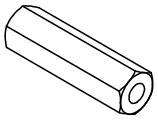


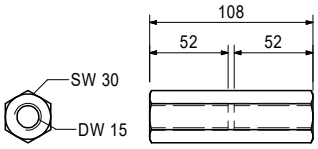
Art no.	Weight [kg]	
030090	0.402	**Hex-Nut DW15 SW30 108mm ga**

For coupling Tie Rod DW15 and B15.

Notes

Permissible load 90 kN.



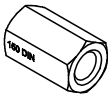


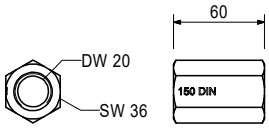
Art no.	Weight [kg]	
030580	0.371	**Hex-Nut DW20 SW36 60mm weldab.**

For anchoring with Tie Rod DW20 and B20.

Notes

Weldable! Permissible load 150 kN.



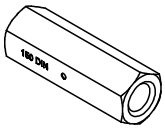


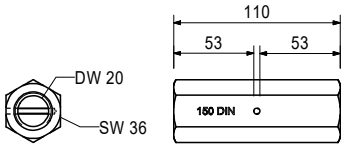
Art no.	Weight [kg]	
030590	0.685	**Hex-Nut DW20 SW36 110mm welda**

For coupling Tie Rod DW20 and B20.

Notes

Weldable!
Permissible load 150 kN.



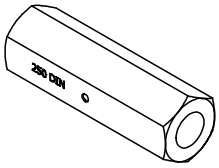


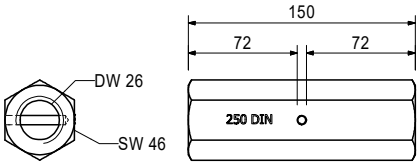
Art no.	Weight [kg]	
030980	1.540	**Hex-Nut DW26 SW46 150mm welda.**

For coupling Tie Rod DW26.

Notes

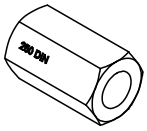
Weldable!
Permissible load 250 kN.

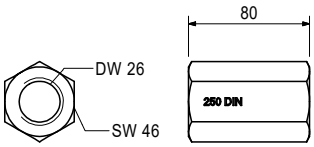




Art no.	Weight [kg]	
113339	0.800	**Hex-Nut DW26 SW46 80mm ga**

For anchoring with Tie Rod DW26.



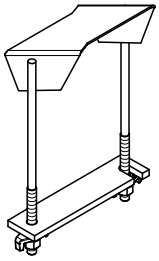


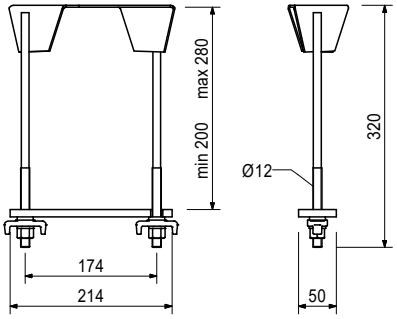
Art no.	Weight [kg]	
018310	1.810	**Beam Connector ga**

For connecting crossed timbers or girders.

Notes

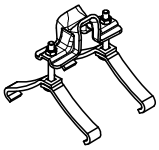
With captive swivel nuts.

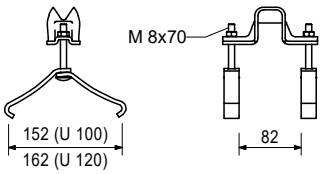




Art no.	Weight [kg]	
024070	0.691	**Hook Strap 24 U100/U120**

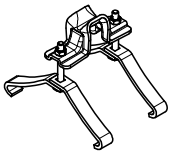
For fixing GT 24 Girders to Steel Walers SRZ, SRU and BR Profile U100–U120.

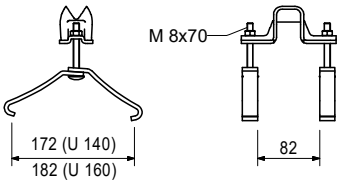




Art no.	Weight [kg]	
024080	0.735	**Hook Strap 24 U140/U160**

For fixing GT 24 Girders to Steel Walers SRZ, SRU and BR Profile U140–U160.



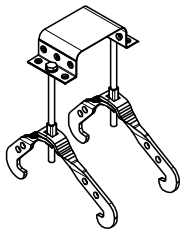


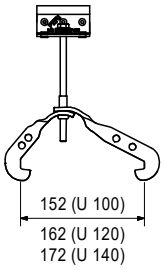
Art no.	Weight [kg]	
		Hook Straps Uni HBU
104931	0.839	**Hook Strap Uni HBU 20-24**
103845	0.893	**Hook Strap Uni HBU 24-28**

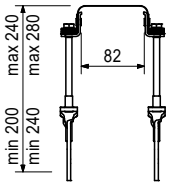
For fixing GT 24 Girders or VT 20 Girders to Steel Walers SRZ and SRU Profiles U100–U140.

Notes

The girders can be mounted at right-angles or diagonally to the steel walers and also outside of the nodes.







Accessory (not included)

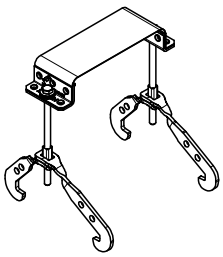
024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**

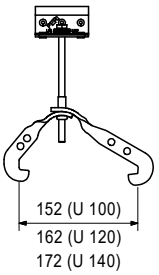
Art no.	Weight [kg]	
		Hook Straps Uni dou. HBUD
104930	0.887	**Hook Strap Uni dou. HBUD 20-24**
104096	0.912	**Hook Strap Uni dou. HBUD 24-28**

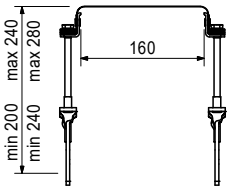
For fixing two GT 24 Girders or VT 20 Girders to SRZ Steel Walers and SRU Profiles U100–U140.

Notes

The girders can be mounted at right-angles or diagonally to the steel walers and also outside of the nodes.

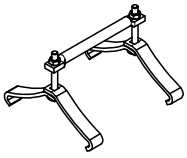


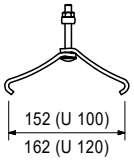


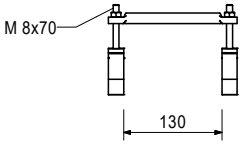


Art no.	Weight [kg]	
024860	0.616	**Cross Strap 150mm for HB 24**

For fixing GT 24 Girders independent from girder node or timber beams with drilling Ø20mm to Steel Walers SRZ, SRU and BR Profile U100–U120.

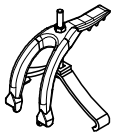


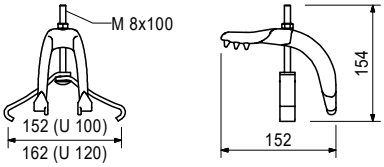




Art no.	Weight [kg]	
024600	0.907	**Grider Claw HB**

For mounting the GT 24 Edge Girder on the Steel Waler SRZ and SRU Profile U100–U120.



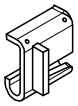


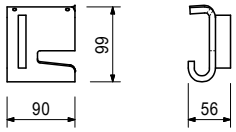
Art no.	Weight [kg]	
024640	0.923	**Qu.Str.Hook Strap 24 U100-U140**

For fixing GT 24 Girders to Steel Waler SRZ, SRU-Profile U100–U140 outside of the girder nodes.

Notes

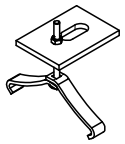
Girders fixed in position with the quick strap must be specially screwed to the formlining when using crane lifting gears.

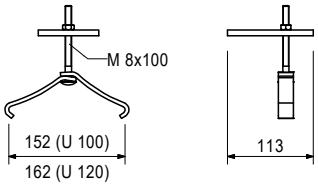




Art no.	Weight [kg]	
024630	0.742	**Fix Clamp U100/U120 ga**

For fixing the GT 24 Girder in the VARIO Corner.



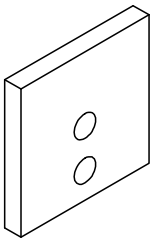


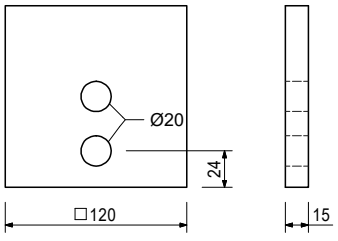
Art no.	Weight [kg]	
030140	1.620	**Counterplate DW15 120x120x15mm**

For anchoring with Tie Rod DW15 and B15.

Notes

Permissible tension force 90 kN.

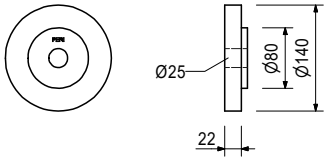




Art no.	Weight [kg]	
114082	2.860	**Counterplate RCS DW20**

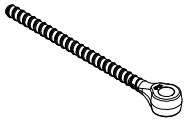
Counterplate with centring for anchoring through the Climbing Rail RCS.

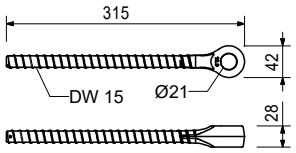




Art no.	Weight [kg]	
037150	0.641	**Tie Yoke DW15**

For fixing SRZ Steel Walers to the strongback.



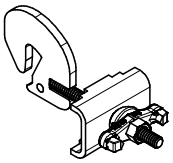


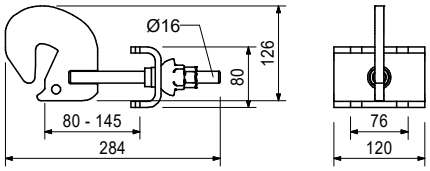
Accessory (not included)

037160	0.736	**Pin Ø20x205mm ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
710226	0.340	**Screw ISO4014-M20x090-8.8-ga**

Art no.	Weight [kg]	
110059	2.840	**Waler Fixation U100/U120**

For fixing VARIO GT 24 Panels to Strongbacks CB, SCS and Steel Waler SRU.



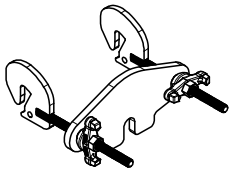


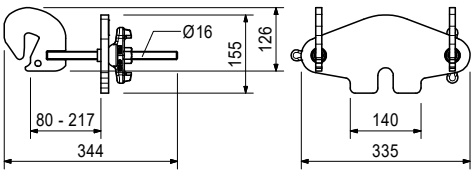
Consists of

1 pc 110055 Cross Strap coat
1 pc 118260 Spherical Nut RD16 coat

Art no.	Weight [kg]	
129720	8.040	**Waler Fixation U100/U120 doub.**

For fixing VARIO GT 24 Panels to Strongbacks CB, SCS, Steel Waler SRU if anchoring is done through the strongback.



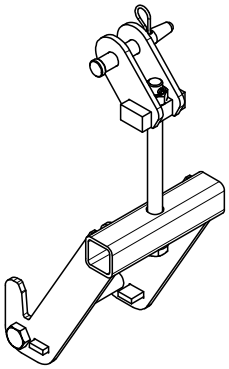


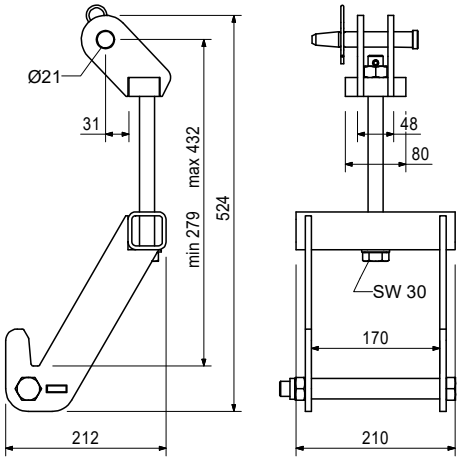
Consists of

2 pc 118260 Spherical Nut RD16 coat

Art no.	Weight [kg]	
110400	7.150	**Adjusting Unit Carriage RCS**

For the external height adjustment of the formwork element at the strongback (Steel Waler SRU).



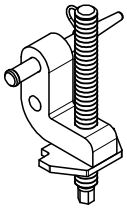


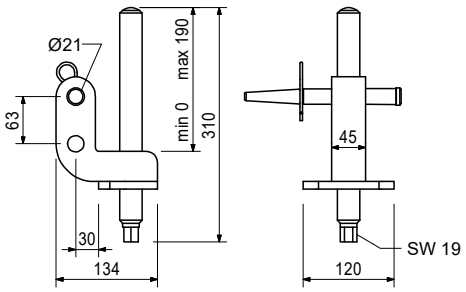
Consists of

1 pc 105400 Pin Ø20x140mm ga
1 pc 018060 Cotter Pin 4/1 ga
1 pc 706454 Washer ISO7089-20-200HV-ga
1 pc 110637 Screw ISO4017-M20x260-mach
1 pc 780807 Sleeve ISO8752-08.0x028-coat

Art no.	Weight [kg]	
111135	5.620	**Adjusting Unit SRU internal**

For internal height adjustment of the formwork on the strongback (Steel Waler SRU) or Climbing Rail RCS.



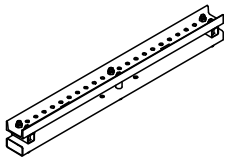


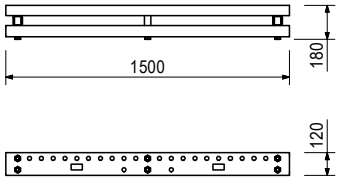
Consists of

1 pc 105400 Pin Ø20x140mm ga
1 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
127633	38.700	**Formwork Waler CB 150**

Horizontal waler for connecting the spindle with the wall formwork.



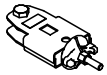


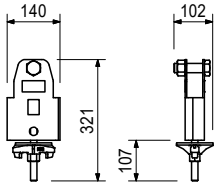
Accessory (not included)

127659	3.980	**Clamp Adapter MX TR-SRU**

Art no.	Weight [kg]	
127659	3.980	**Clamp Adaptor MX TR-SRU**

For the connection of Formwork Waler CB 150 to the formwork.





Accessory (not included)

127633	38.700	**Formwork Waler CB 150**

Consists of

1 pc 105416 Screw ISO4014-M24x080-8.8-ga
1 pc 022250 Hex-Nut ISO4032-M24-8-ga

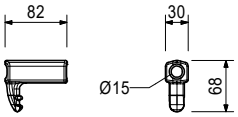
Art no.	Weight [kg]	
023820	0.375	**Hook Tie Head DW15 ga**

For connecting accessories to MAXIMO and TRIO Panels. DW15 thread.

Notes

Permissible tension force 20.0 kN.



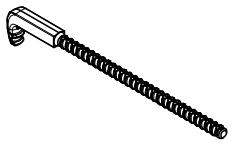


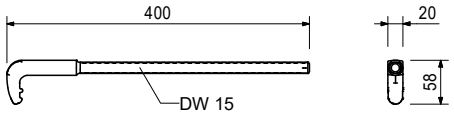
Art no.	Weight [kg]	
023650	0.769	**Hook Tie DW15x400mm ga**

For connecting accessories to MAXIMO and TRIO Panels. DW15 thread.

Notes

Permissible tension force 20.0 kN.



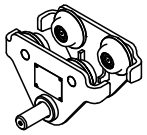


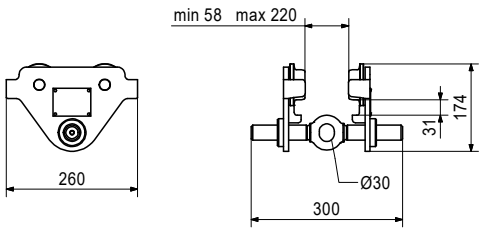
Art no.	Weight [kg]	
057043	9.000	**Trolley HTP 1000kg Type A**

For the movable suspension of the formwork on Steel Profiles HEB, IPE or similar.
Width = 58-220mm.

Notes

Follow Instructions for Use!



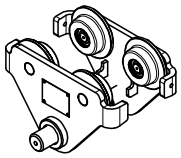


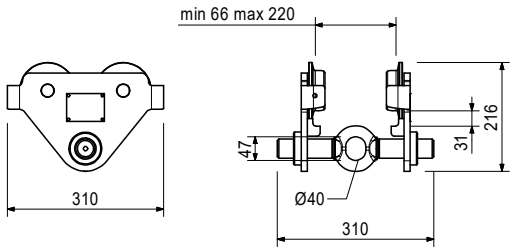
Art no.	Weight [kg]	
057045	16.000	**Trolley HTP 2000kg Type A**

For the movable suspension of the formwork on Steel Profiles HEB, IPE or similar.
Width = 66-220mm.

Notes

Follow Instructions for Use!



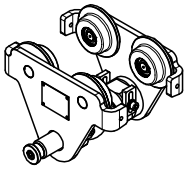


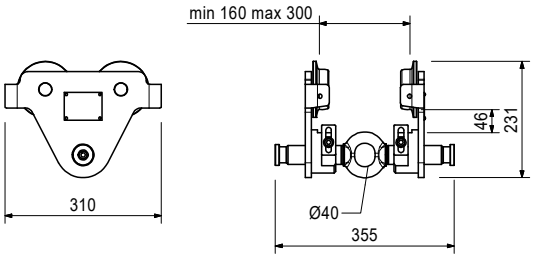
Art no.	Weight [kg]	
057046	19.300	**Trolley HTP 2000kg Type B**

For the movable suspension of the formwork on Steel Profiles HEB, IPE or similar.
Width = 160-300mm.

Notes

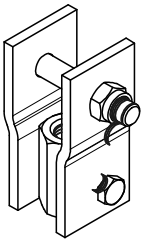
Follow Instructions for Use.

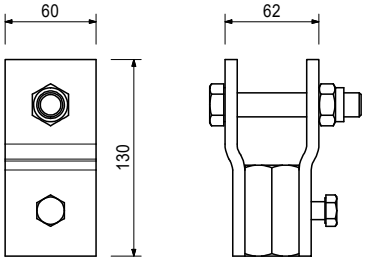




Art no.	Weight [kg]	
057049	2.570	**Panel Suspens.Adaptor ACS DW20**

Connecting Betomax 20 with Trolley HTP.





Consists of

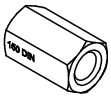
1 pc 721729 Screw ISO4014-M16x090-8.8-ga
1 pc 070890 Hex-Nut ISO7040-M16-8-ga
1 pc 710266 Screw ISO4017-M12x025-8.8-ga

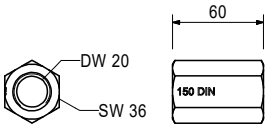
Art no.	Weight [kg]	
030580	0.371	**Hex-Nut DW20 SW36 60mm weldab.**

For anchoring with Tie Rod DW20 and B20.

Notes

Weldable! Permissible load 150 kN.

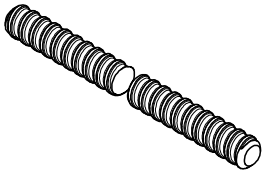




Art no.	Weight [kg]	
		Tie Rods B20
030800	0.000	**Cutting Costs DW20/B20**
030745	2.600	**Tie Rod B20 spec. Length**

Notes

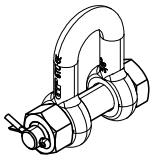
Weldable! Take official Approval into consideration! Permissible tension force 150 kN.

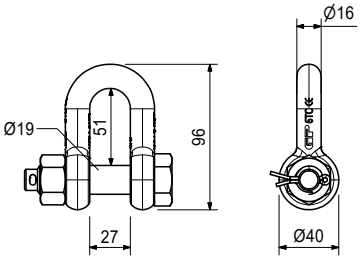




Art no.	Weight [kg]	
130616	0.670	**Shackle Ø16/Ø19mm 3.25t Hex-N.**

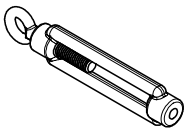
For attaching loads or mounting formwork elements, Trolleys HTP 2000kg by means of Turnbuckle CB M20/DW15.

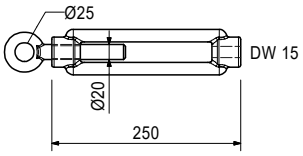




Art no.	Weight [kg]	
116807	1.850	**Turnbuckle CB Ø25-M20/DW15**

For tensioning of Tie Rod DW15.





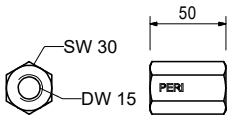
Consists of

1 pc 711059 Turnbuckle CB coat
1 pc 711060 Eyebolt M20 left coat

Art no.	Weight [kg]	
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**

For anchoring with Tie Rod DW15 and B15.

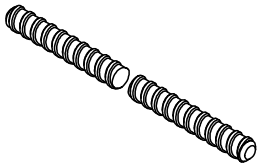




Art no.	Weight [kg]	
		Tie Rods B15
030050	0.000	**Cutting Cost DW15/B15**
030740	1.550	**Tie Rod B15 spec. Length**

Notes

Weldable! Observe the permissions! Permissible tension force 85 kN.



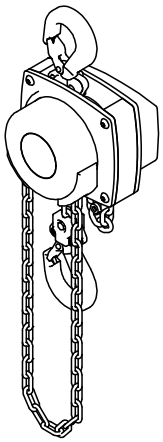


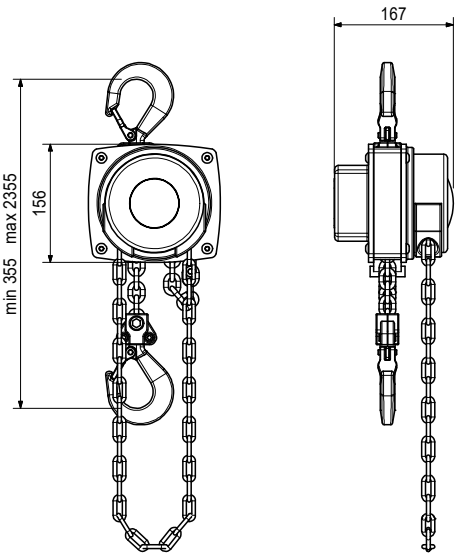
Art no.	Weight [kg]	
057517	13.000	**WInch 1.0t**

For the height-adjustable suspension of the formwork or for lifting and lowering loads.

Notes

Follow Instructions for Use!
Lifting height 2m.
Hand chain 3m.



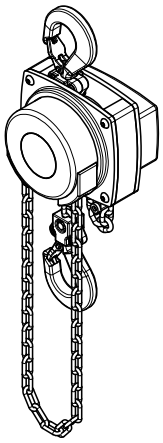


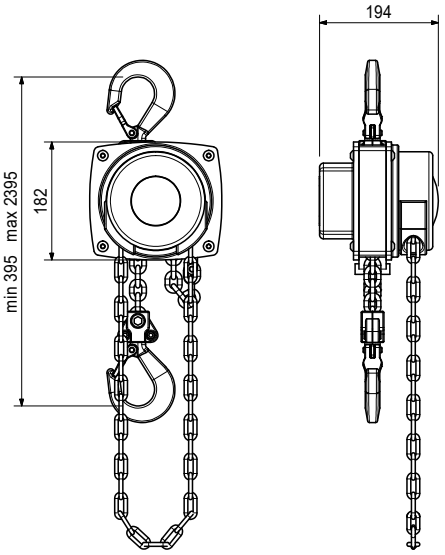
Art no.	Weight [kg]	
129981	20.000	**WInch 2.0t**

For the height-adjustable suspension of the formwork or for lifting and lowering loads.

Notes

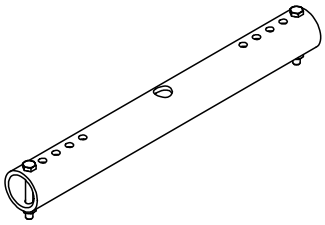
Follow Instructions for Use!
Lifting height 2m.
Hand chain 3m.

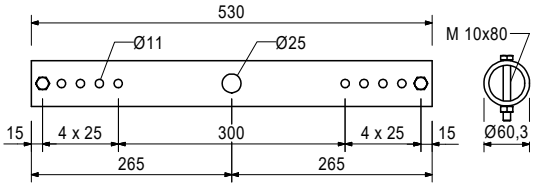




Art no.	Weight [kg]	
057050	4.450	**Panel Suspens. Tube VARIO 53**

For attaching VARIO GT 24 Elements.





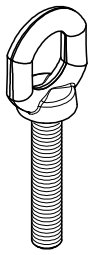
Accessory (not included)

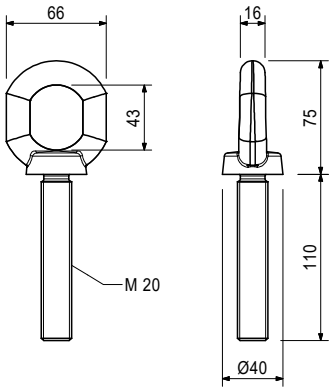
057095	0.902	**Pywood Insert GT 24 ACS**
125823	2.170	**Formwork Suspension VARIO Ø60**
724812	0.656	**Eyebolt M20x110mm coat**

Consists of

2 pc 710593 Screw ISO4014-M10x080-8.8-ga
2 pc 710234 Hex-Nut ISO4032-M10-8-ga

Art no.	Weight [kg]	
724812	0.656	**Eyebolt M20x110mm coat**





Accessory (not included)

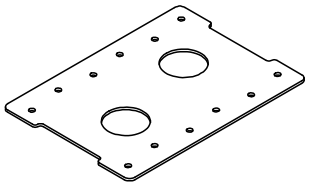
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
113350	0.174	**Washer ISO7094-20 100HV-ga.**

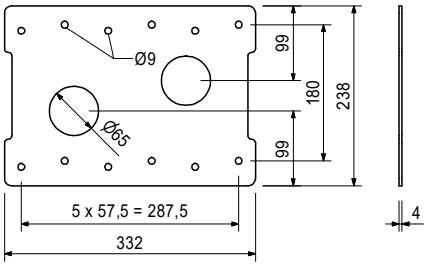
Art no.	Weight [kg]	
125823	2.170	**Formwork Suspension VARIO Ø60**

For connecting the Suspension Tube VARIO 53 to Formwork Girders GT 24.

Notes

Permissible load-bearing capacity see PERI Design Information (on request).
At least 2 pieces per fixing point.



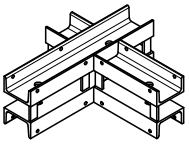


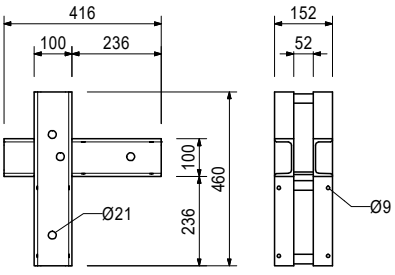
Accessory (not included)

024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
057077	16.800	**Steel Corn. Waler ESRZ 46/41.6**

For VARIO GT 24 Corner Elements.



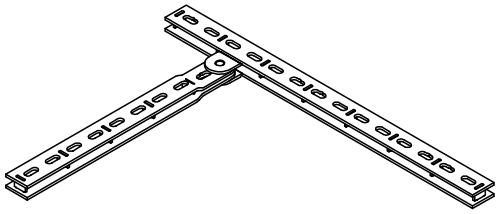


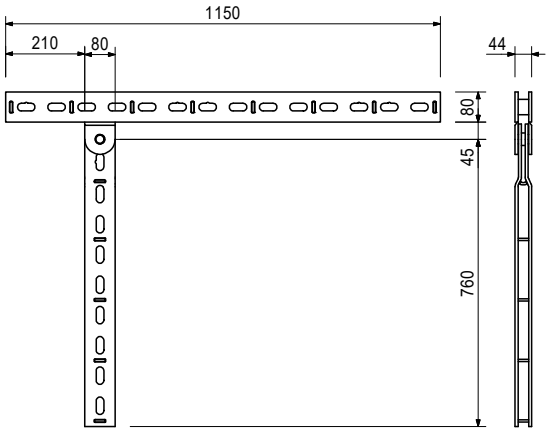
Accessory (not included)

057078	18.300	**T-Shaped Artic. Coupl. 115-76**

Art no.	Weight [kg]	
057078	18.300	**T-Shaped Artic. Coupl. 115-76**

For connecting VARIO GT 24 Corner Elements.

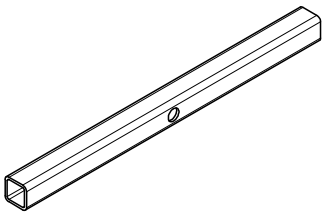


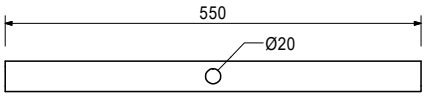


		Accessory (not included)
037160	0.736	**Pin Ø20x205mm ga**
024240	0.805	**Wedge KZ tensionproof**

Art no.	Weight [kg]	
123806	2.320	**Tube 40x40x4mm 55**

For clamping compensation plates.



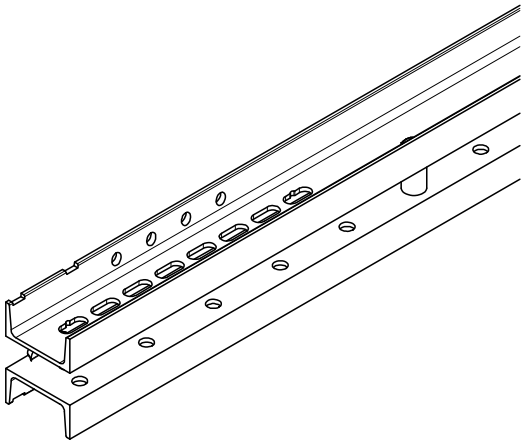


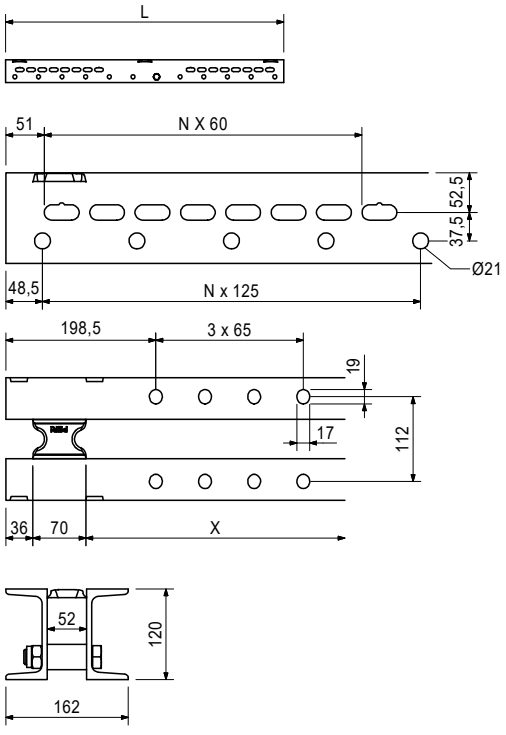
Art no.	Weight [kg]		L [mm]
		Steel Walers SRU U120	
103868	18.100	**Steel Waler SRU 72 U120**	722
103871	24.200	**Steel Waler SRU 97 U120**	972
103874	30.900	**Steel Waler SRU 122 U120**	1222
103877	38.100	**Steel Waler SRU 147 U120**	1472
103886	44.700	**Steel Waler SRU 172 U120**	1722
103889	52.000	**Steel Waler SRU 197 U120**	1972
103898	58.600	**Steel Waler SRU 222 U120**	2222
103892	65.600	**Steel Waler SRU 247 U120**	2472
103929	72.000	**Steel Waler SRU 272 U120**	2722
103903	81.000	**Steel Waler SRU 297 U120**	2972
103906	92.600	**Steel Waler SRU 347 U120**	3472
103915	106.000	**Steel Waler SRU 397 U120**	3972
103918	119.000	**Steel Waler SRU 447 U120**	4472
103922	135.000	**Steel Waler SRU 497 U120**	4972
103925	146.000	**Steel Waler SRU 547 U120**	5472
103928	159.000	**Steel Waler SRU 597 U120**	5972

Universal Steel Waler Profile U120 used as waling for girder wall formwork and for diverse special applications.
With adjustable spacers.

Notes

Permissible load: see PERI Design Tables.
SRU 120 Wy = 121.4 cm³, Iy = 728 cm⁴.
SRU 140 Wy = 172,8 cm³, Iy = 1210 cm⁴.





Accessory (not included)

135912	0.067	**Spacer SRU**

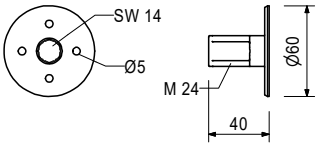
Art no.	Weight [kg]	
026420	0.123	**Anchor Posit. Stud M24 ga**

For fixing Anchor System M24 if the plywood formlining is not to be drilled through.

Notes

Allen Key SW14.



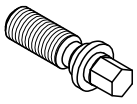


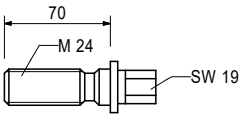
Accessory (not included)

027212	0.445	**Hexag. Recess Wrench SW14 long**
710312	0.005	**Wire Nail 3.0x80mm**

Art no.	Weight [kg]	
029270	0.331	**Advancing Screw M 24 galv**

For fixing the Anchor System M24 if the plywood formlining has been drilled through.



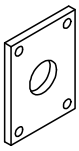


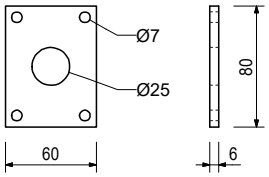
Accessory (not included)

029280	0.196	**Anchor Posit. Plate M24 ga**

Art no.	Weight [kg]	
029280	0.196	**Anchor Posit. Plate M24 ga**

For fixing the Anchor System M24 if the plywood formlining has been drilled through.



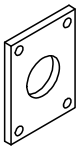


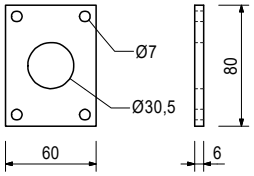
Accessory (not included)

029440	0.005	**Hex-Wood-Screw 6x20 DIN571-ga**

Art no.	Weight [kg]	
029380	0.184	**Anchor Posit. Plate M30 ga**

For fixing the M30 Anchor System if the plywood formlining is drilled through.



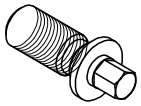


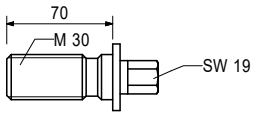
Accessory (not included)

029440	0.005	**Hex-Wood-Screw 6x20 DIN571-ga**

Art no.	Weight [kg]	
029450	0.339	**Advancing Screw M30 ga**

For fixing the M30 Anchor System if the plywood formlining is drilled through.





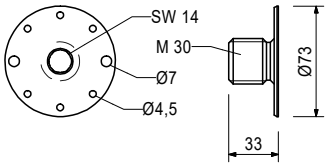
Accessory (not included)

029380	0.184	**Anchor Posit. Plate M30 ga**

Art no.	Weight [kg]	
026450	0.214	**Anchor Posit. Stud M30 ga**

For fixing the M30 Anchor System if the plywood formlining is not drilled through.



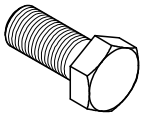


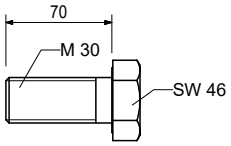
Accessory (not included)

027212	0.445	**Hexag. Recess Wrench SW14 long**
710312	0.005	**Wire Nail 3.0x80mm**

Art no.	Weight [kg]		L [mm]
029420	0.590	**Screw ISO4017-M30x070-8.8-ga**	70

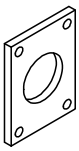
Alternative to Leading Screw M30 galvanized, item number: 029450.

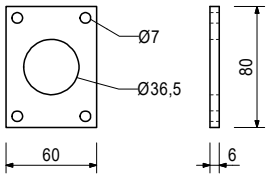




Art no.	Weight [kg]	
029390	0.170	**Anchor Posit. Plate M36 ga**

For fixing the M36 anchor system if the plywood formlining is drilled through.





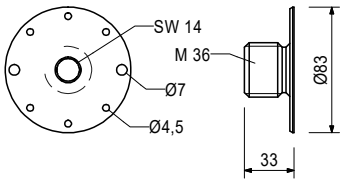
Accessory (not included)

029440	0.005	**Hex-Wood-Screw 6x20 DIN571-ga**

Art no.	Weight [kg]	
026460	0.308	**Anchor Posit. Stud M36 ga**

For fixing the M36 anchor system if the plywood formlining is not drilled through.



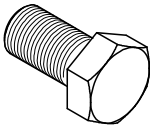


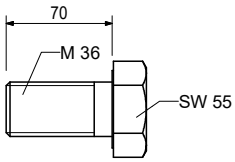
Accessory (not included)

027212	0.445	**Hexag. Recess Wrench SW14 long**
710312	0.005	**Wire Nail 3.0x80mm**

Art no.	Weight [kg]		L [mm]
029430	0.930	**Screw ISO4017-M36x070-8.8-ga**	70

Bolt for anchoring of climbing systems and as advancing bolt.



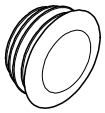


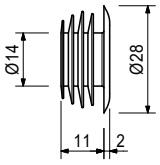
Art no.	Weight [kg]	
030300	0.002	**Plug Ø20/24mm**

For sealing unused tie holes Ø20 to Ø24mm.

Notes

Delivery unit 250 pieces.

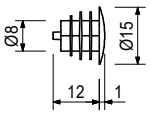




Art no.	Weight [kg]	
057093	0.001	**Plug SFL 15x0.8-2**

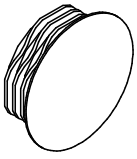
For closing unused anchor holes with Ø15 e.g. DW15.

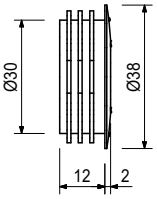




Art no.	Weight [kg]	
057094	0.004	**Plug SFL 38x1-3**

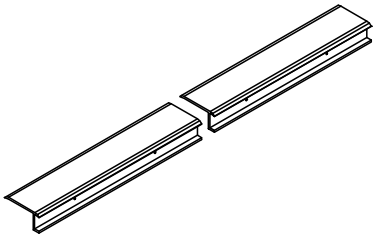
For closing advancing Anchor Holes Ø32 to Ø36mm.

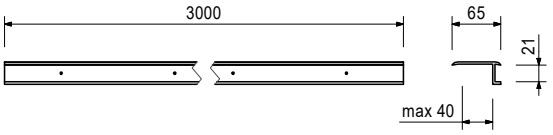




Art no.	Weight [kg]	
101706	1.230	**Formwork Joint 21/40mm 300**

Plastic profile strip for easier striking of shafts.



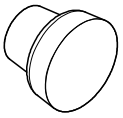


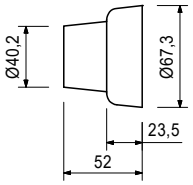
Art no.	Weight [kg]	
031652	0.247	**Concrete Cone KK M24 Ø67x52mm**

For closing anchor points with Climbing Cone-2, M24/DW15 and Screw-On Cone-2 M24/DW20.

Notes

Delivery unit 50 pieces.





Accessory (not included)

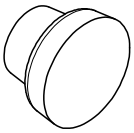
131709	9.980	**Sealing Adhesive-3 6 Cans-Set**

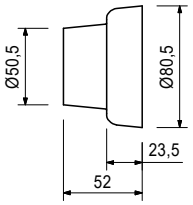
Art no.	Weight [kg]	
031653	0.364	**Concrete Cone KK M30 Ø80x52mm**

For closing anchor points with Climbing Cone-2 M30/DW20 or Screw Cone M30/DW26.

Notes

Delivery Unit 50 pieces.





Accessory (not included)

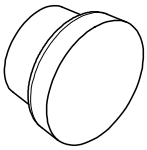
131709	9.980	**Sealing Adhesive-3 6 Cans-Set**

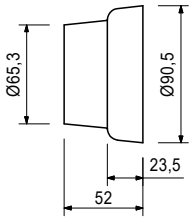
Art no.	Weight [kg]	
031654	0.512	**Concrete Cone KK M36 Ø90x52mm**

For closing anchor points with Climbing Cone-2 M36/DW26.

Notes

Delivery unit 50 pieces.



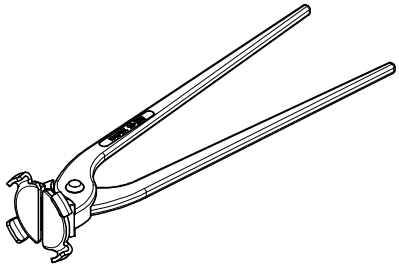


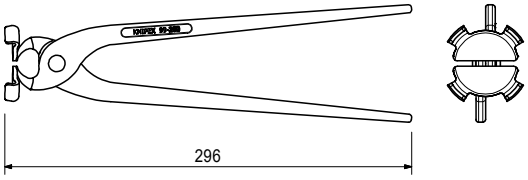
Accessory (not included)

131709	9.980	**Sealing Adhesive-3 6 Cans-Set**

Art no.	Weight [kg]	
031644	0.588	**Cone Pliers DK Ø58mm**

For holding DK, SK or KK Concrete Cones with corresponding diameter during installation.



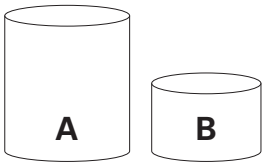


Art no.	Weight [kg]	
131709	9.980	**Sealing Adhesive-3 6 Cans-Set**

For bonding PERI Concrete Cones.

Notes

See Safety Data sheet!
Consisting of: 6 x Component A, 6 x Component B
Component A = Net quantity / Can 459ml / 752g
Component B = Net quantity / Can 356ml / 583g



Consists of

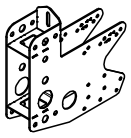
6 pc 131710 Sealing Adhesive-3 Can CO-A
6 pc 131711 Sealing Adhesive-3 Can CO-B

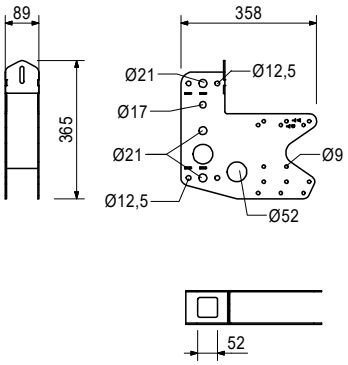
Art no.	Weight [kg]	
126088	4.390	**Guardrail Post Holder Multi**

For fixing of an end guardrail post on Girders GT 24, VT 20 or KH 80/160. Fixing of the guardrail posts by means of Hex. Bolts M20.

Notes

Suitable for
Guardrail Post RCS 226 item no.: 109720
Guardrail Post RCS/SRU 184 item no.: 114328
Vertical scaffold tubes
Special post QR 50x50

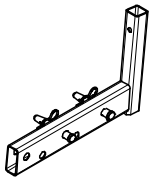


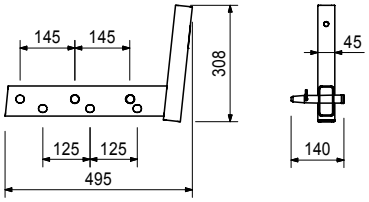


		Accessory (not included)
710285	0.050	**Screw ISO4014-M08-100-8.8-ga**
024090	0.005	**Self-cleaning Nut M8 coat**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
104131	3.940	**Guardrail Holder SRU/SRZ**

For assembling a guardrail to the Steel Walers SRU and SRZ, Profile U100 to U140.





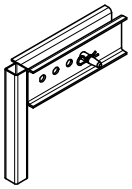
		Accessory (not included)
116292	4.720	**Guardrail Post-2 HSGP**
061260	6.150	**Guardrail Post SGP**

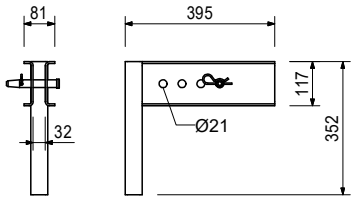
Consists of

2 pc 105400 Pin Ø20x140mm ga
2 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
101290	5.670	**Guardrail Holder GT 24/VT 20**

For assembling a guardrail to GT 24 and VT 20 Girders.





Accessory (not included)

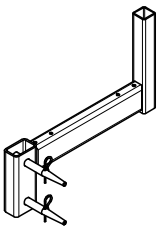
116292	4.720	**Guardrail Post-2 HSGP**
061260	6.150	**Guardrail Post SGP**

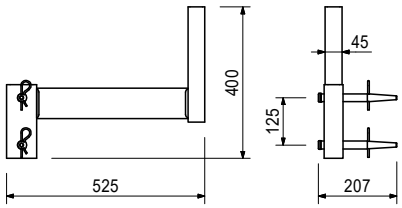
Consists of

1 pc 105400 Pin Ø20x140mm ga
1 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
114557	6.980	**Platform Beam SRU**

For assembling a platform and guardrail at vertical Steel Waler SRU.





Accessory (not included)

116292	4.720	**Guardrail Post-2 HSGP**

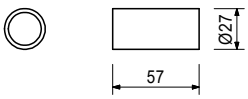
Consists of

2 pc 104031 Fitting Pin Ø21x120mm
2 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
116363	0.089	**Spacer RCS 184**

Compensator between Angle Connector RCS/SRU and Guardrail Post RCS 184.

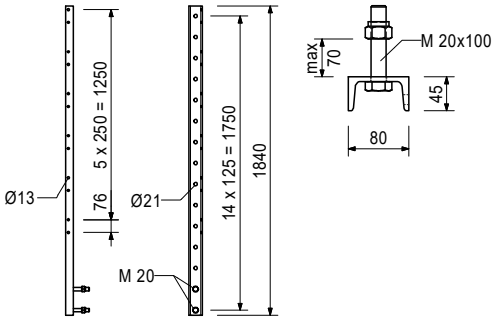




Art no.	Weight [kg]	
114328	16.600	**Guardrail Post RCS/SRU 184**

For assembly of the guardrail on the Platform Beam RCS/SRU or Guardrail Post Holder Multi.





Accessory (not included)

780354	0.002	**Washer ISO7089-08-200HV-ga**
110296	0.220	**Clamp A64 DIN3570-M12-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
710709	0.036	**Screw DIN603-M08-065-4.8-ga-Nu**
057345	0.010	**Washer 9mm DIN 434 ga**

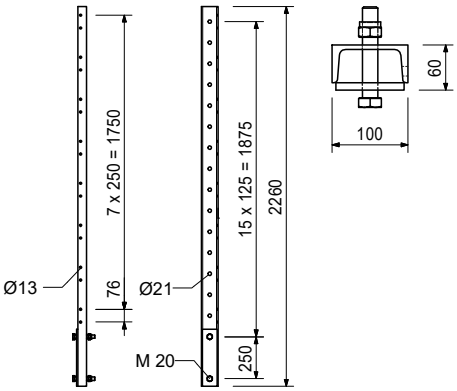
Consists of

2 pc 114727 Screw ISO4017-M20x100-8-8-ga
2 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
109720	26.600	**Guardrail Post RCS 226**

For assembly of the guardrail on the main platform with RCS Climbing System or on Guardrail Post Holder Multi .





Accessory (not included)

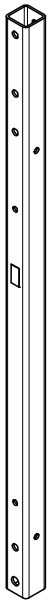
110296	0.220	**Clamp A64 DIN3570-M12-ga**
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**
710709	0.036	**Screw DIN603-M08-065-4.8-ga-Nu**
780354	0.002	**Washer ISO7089-08-200HV-ga**
057345	0.010	**Washer 9mm DIN 434 ga**

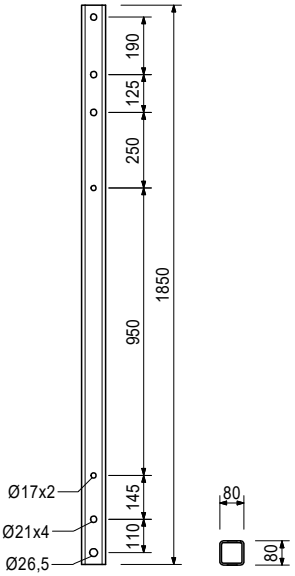
Consists of

2 pc 104477 Screw ISO4014-M20x120-8.8-ga
2 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
126495	24.200	**Guardrail Post RCS MP**

For fixation of the side protection on Material Platforms RCS-MP with horizontal Climbing Rail RCS.



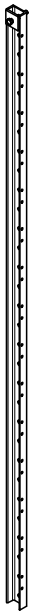


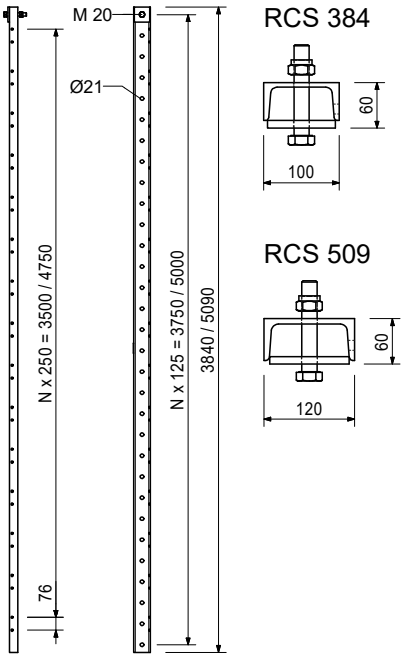
Accessory (not included)

104477	0.300	**Screw ISO4014-M20x120-8.8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
		Guardrail Posts RCS
109773	67.900	**Guardrail Post 509 RCS**
109721	40.700	**Guardrail Post 384 RCS**

For assembly of the guardrail on the intermediate and finishing platforms with RCS Climbing System or as horizontal strut in the bracing.





Consists of

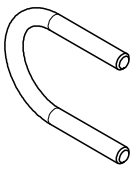
1 pc 104477 Screw ISO4014-M20x120-8.8-ga
1 pc 781053 Hex-Nut ISO7040-M20-8-ga

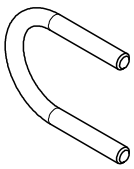
Art no.	Weight [kg]	
110296	0.220	**Clamp A64 DIN3570-M12-ga**

For assembling Scaffold Tubes on Railing Posts RCS.

Notes

Wrench size SW19.

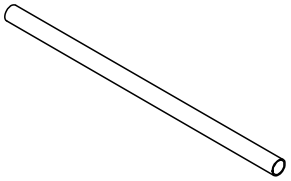


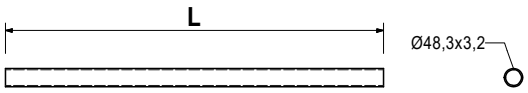


Accessory (not included)

710330	0.017	**Hex-Nut ISO4032-M12-8-ga**

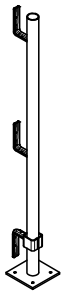
Art no.	Weight [kg]		L [mm]
		Scaff. Tubes 48.3x3.2mm ga	
026417	0.000	**Cutting Costs Scaffold Tube**	1
125976	8.900	**Scaff. Tube 48,3x3,2mm 2,5m ga**	2500
114287	12.500	**Scaff. Tube 48,3x3,2mm 3,5m ga**	3500
026411	3.550	**Scaff. Tube 48.3x3.2mm 1m ga**	1000
026412	7.100	**Scaff. Tube 48.3x3.2mm 2m ga**	2000
026413	10.650	**Scaff. Tube 48.3x3.2mm 3m ga**	3000
026414	14.200	**Scaff. Tube 48.3x3.2mm 4m ga**	4000
026419	17.750	**Scaff. Tube 48.3x3.2mm 5m ga**	5000
026418	21.600	**Scaff. Tube 48.3x3.2mm 6m ga**	6000
026415	3.550	**Scaff. Tube 48.3x3.2mm lfm ga**	1000

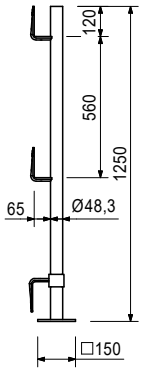




Art no.	Weight [kg]	
019040	6.480	**Guardrail Post PD8**

As guardrail for different systems. Screwed onto sub-structure.

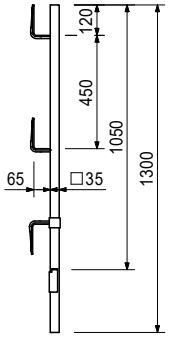




Art no.	Weight [kg]	
116292	4.720	**Guardrail Post-2 HSGP**

As guardrail for different systems.

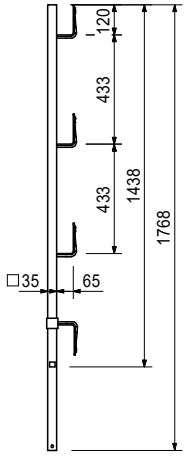




Art no.	Weight [kg]	
061260	6.150	**Guardrail Post SGP**

As guardrail for different systems.





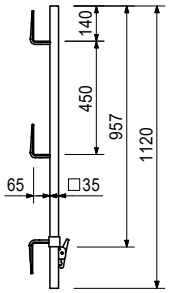
Art no.	Weight [kg]	
117325	4.270	**Post PP**

For the fixation of the Side-Mesh-Barriers.

Notes

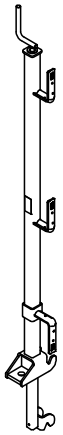
Distance of posts with Side-Mesh-Barrier PMB 260 max. 2.4m.

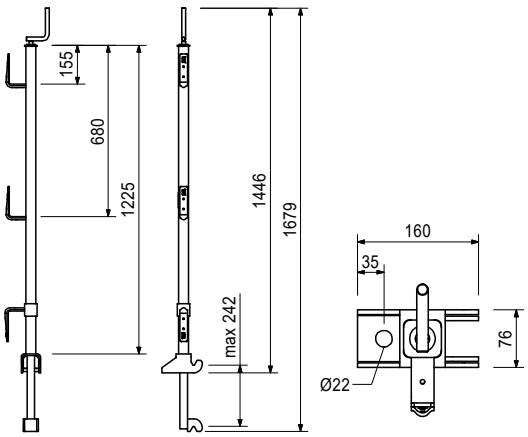




Art no.	Weight [kg]	
114299	9.520	**Guardrail Post GKB**

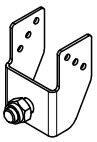
For fixing to the reinforcement or to the embedded anchors.

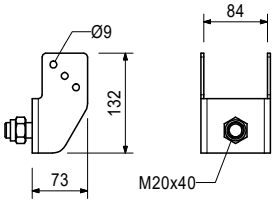




Art no.	Weight [kg]	
110330	0.865	**Girder Connector M20**

For the fixation of 80mm wide decking supports made of wood on Platform Beams with suitable boring of Ø21mm.





Accessory (not included)

024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

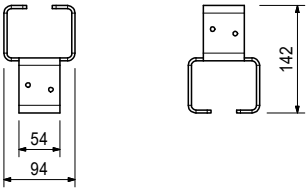
Consists of

1 pc 706458 Screw ISO4017-M20x040-8.8-ga
1 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
129724	0.817	**Cross Connector GT 24/GT 24**

For the connection of crossing GT 24 Formwork Girders.



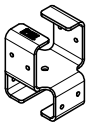


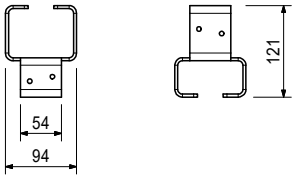
Accessory (not included)

024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
129722	0.746	**Cross Connector GT 24/VT 20**

For connecting a Girder GT 24 to a crossing Girder VT 20.



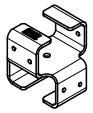


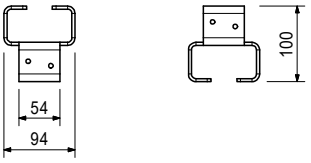
Accessory (not included)

024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

Art no.	Weight [kg]	
129817	0.675	**Cross Connector VT 20/VT 20**

For the connection of crossing Girders VT 20.





Accessory (not included)

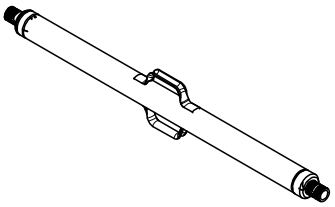
024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**

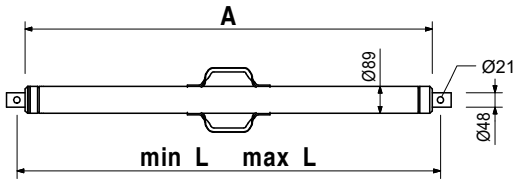
Art no.	Weight [kg]		min. L [mm]	max. L [mm]
		Heavy-Duty Spindles SLS		
111035	12.000	**Heavy Duty Spindle SLS 40-80**	400	800
101773	15.300	**Heavy Duty Spindle SLS 80-140**	800	1400
101774	18.300	**Heavy Duty Spindle SLS 100-180**	1000	1800
101776	24.900	**Heavy Duty Spindle SLS 140-240**	1400	2400
101778	32.300	**Heavy Duty Spindle SLS 200-300**	2000	3000
101779	38.500	**Heavy Duty Spindle SLS 260-360**	2600	3600
109726	44.800	**Heavy Duty Spindle SLS 320-420**	3200	4200
109785	51.000	**Heavy Duty Spindle SLS 380-480**	3800	4800

Used as adjustable spindle for truss beams made of Steel Walers SRU and Climbing Rails RCS.

Notes

Permissible load see PERI Design Tables.



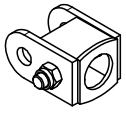


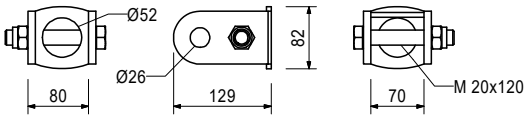
Accessory (not included)

104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
110477	3.990	**Spindle Adaptor SLS/RCS**

Art no.	Weight [kg]	
115388	1.910	**Forkhead Adapter SLS/RCS**

For horizontal bracing of the climbing protection panel against the Slab Stopend Shoe RCS with a Heavy Duty Spindle SLS.



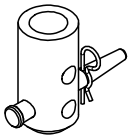


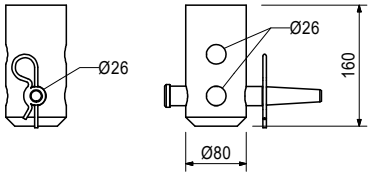
Consists of

1 pc 104477 Screw ISO4014-M20x120-8.8-ga
1 pc 781053 Hex-Nut ISO7040-M20-8-ga

Art no.	Weight [kg]	
116039	4.910	**Spindle Adaptor SKS/RCS**

For connecting the Compression Spindle SCS/RCS to the Climbing Rail RCS.





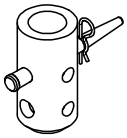
		Accessory (not included)
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

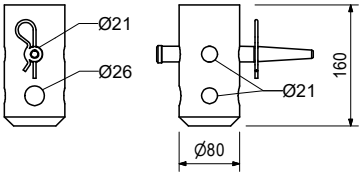
Consists of

1 pc 111567 Fitting Pin Ø26x120mm
1 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
110477	3.990	**Spindle Adaptor SLS/RCS**

For connecting the Heavy-Duty Spindle SLS to the Climbing Rail RCS.





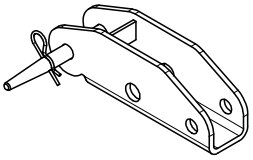
		Accessory (not included)
104031	0.462	**Fitting Pin Ø21x120mm**
018060	0.014	**Cotter Pin 4/1 ga**
111567	0.729	**Fitting Pin Ø26x120mm**
022230	0.033	**Cotter Pin 5/1 ga**

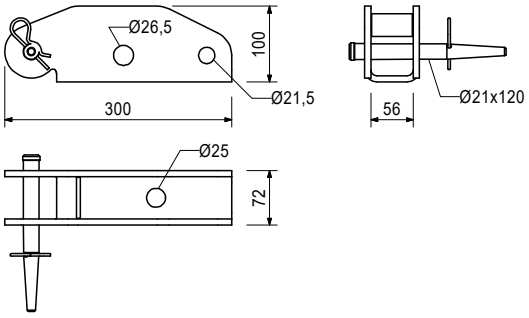
Consists of

1 pc 104031 Fitting Pin Ø21x120mm
1 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
115298	4.210	**Spindle Shoe SLS/RCS M24**

For horizontal bracing of the climbing protection panel against the Advancing Anchor M24 with a Heavy Duty Spindle SLS.





		Accessory (not included)
104031	0.462	**Fitting Pin Ø21x120mm**
111567	0.729	**Fitting Pin Ø26x120mm**

Consists of

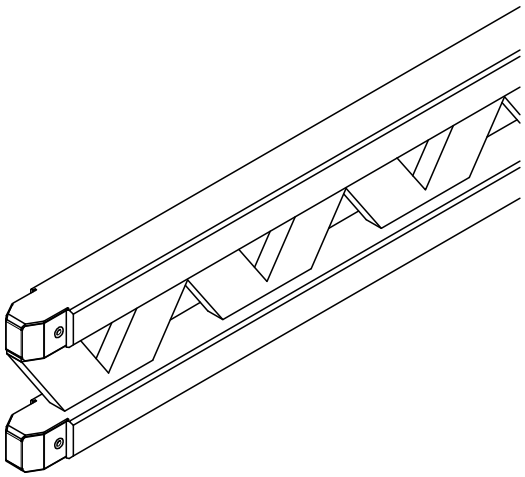
1 pc 104031 Fitting Pin Ø21x120mm
1 pc 018060 Cotter Pin 4/1 ga

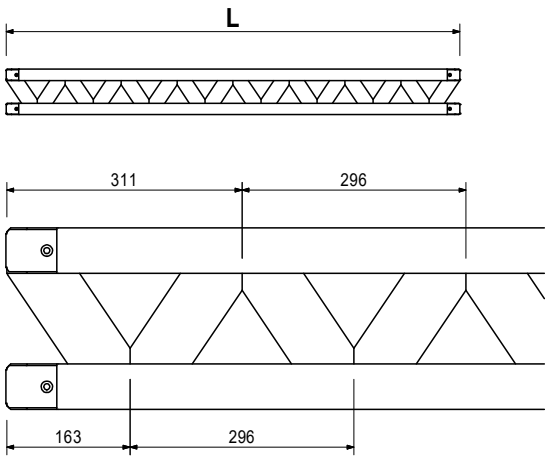
Art no.	Weight [kg]		L [mm]
		Girders GT 24	
075100	5.300	**Girder GT 24 90**	918
075120	7.100	**Girder GT 24 120**	1214
075150	8.900	**Girder GT 24 150**	1510
075180	10.600	**Girder GT 24 180**	1806
075210	12.400	**Girder GT 24 210**	2102
075240	14.200	**Girder GT 24 240**	2398
075270	15.900	**Girder GT 24 270**	2694
075300	17.700	**Girder GT 24 300**	2990
075330	19.500	**Girder GT 24 330**	3286
075360	21.200	**Girder GT 24 360**	3582
075390	23.000	**Girder GT 24 390**	3878
075420	24.800	**Girder GT 24 420**	4174
075450	26.600	**Girder GT 24 450**	4470
075480	28.300	**Girder GT 24 480**	4766
075510	30.100	**Girder GT 24 510**	5062
075540	31.900	**Girder GT 24 540**	5358
075570	33.600	**Girder GT 24 570**	5654
075600	35.400	**Girder GT 24 600**	5950

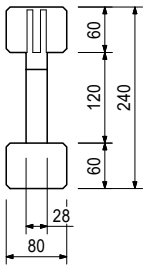
Universal formwork girder made of wood.

Notes

Special lengths over 6m are possible and can be provided on request.







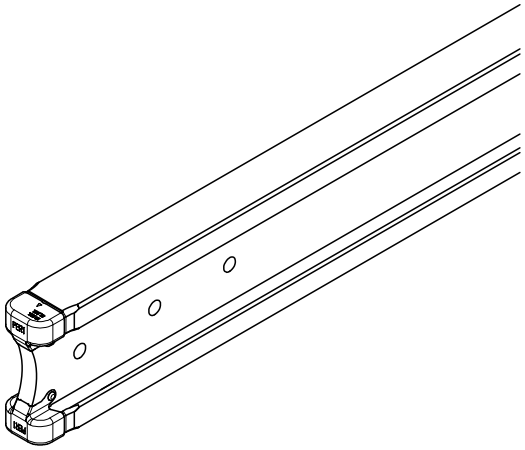
Art no.	Weight [kg]	
078010	36.875	**Girder GT 24 625 spec. Length**

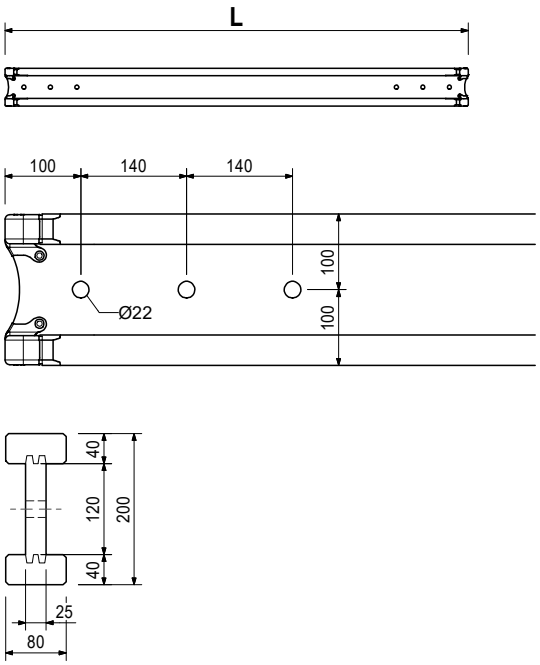
Art no.	Weight [kg]		L [mm]
		Girders VT 20K	
074990	8.230	**Girder VT 20K 145**	1447
074905	12.010	**Girder VT 20K 215**	2152
074910	13.630	**Girder VT 20K 245**	2452
074890	14.710	**Girder VT 20K 265**	2652
074920	16.060	**Girder VT 20K 290**	2902
074930	18.220	**Girder VT 20K 330**	3292
074940	19.840	**Girder VT 20K 360**	3592
074950	21.460	**Girder VT 20K 390**	3892
074960	24.700	**Girder VT 20K 450**	4492
074970	26.860	**Girder VT 20K 490**	4902
074980	32.260	**Girder VT 20K 590**	5902

Universal formwork girder made of wood.

Notes

The girder fulfils all requirements of DIN EN 13377 class P20 (Declaration of Conformity).



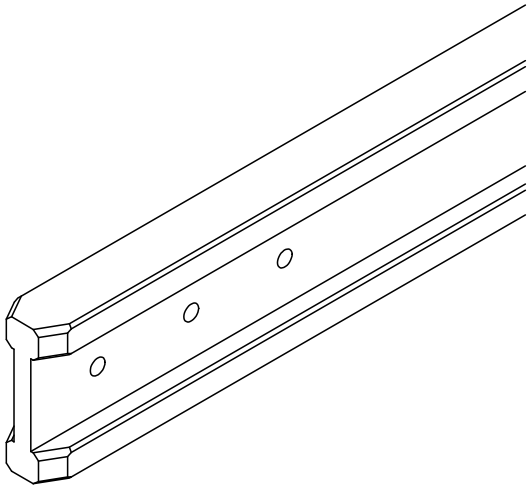


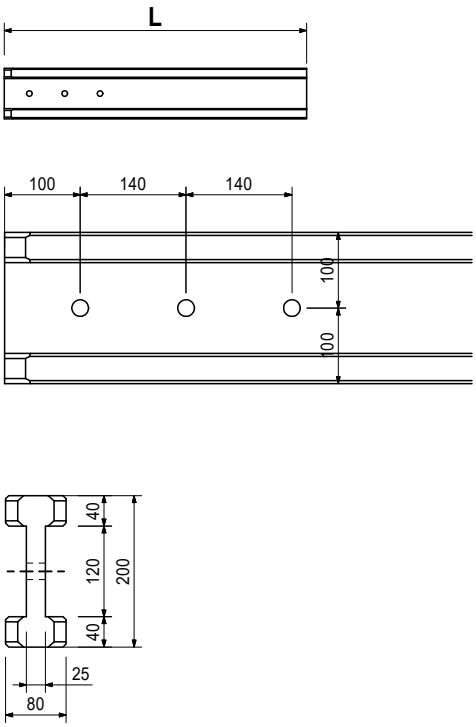
Art no.	Weight [kg]	
		Girders VT 20 Alpha
073650	7.830	**Girder VT 20 Alpha 145**
073651	11.610	**Girder VT 20 Alpha 215**
073652	13.230	**Girder VT 20 Alpha 245**
073653	14.310	**Girder VT 20 Alpha 265**
073654	15.660	**Girder VT 20 Alpha 290**
073655	17.820	**Girder VT 20 Alpha 330**
073656	19.440	**Girder VT 20 Alpha 360**
073657	21.060	**Girder VT 20 Alpha 390**
073658	24.300	**Girder VT 20 Alpha 450**
073659	26.460	**Girder VT 20 Alpha 490**
073660	31.860	**Girder VT 20 Alpha 590**

Universal formwork girder made of wood.

Notes

The girder fulfils all requirements of DIN EN 13377 class P20 (Declaration of Conformity).

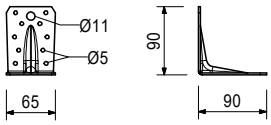




Art no.	Weight [kg]	
123478	0.255	**Angle Connector 90x90x65mm**

For diverse timber connections.



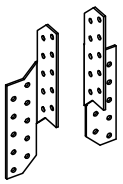


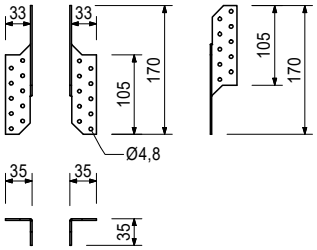
Accessory (not included)

129711	0.010	**Wood Screw 6x20 HRK-TX30 HSX**
024550	0.005	**Wood Screw 8x20 SK-TX30 HSX**

Art no.	Weight [kg]	
018290	0.098	**Framing Clip ga**

For various wood connections.



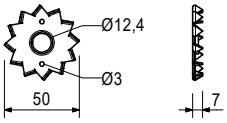


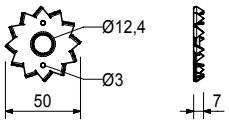
Accessory (not included)

018280	1.000	**Double Head Nail 65mm**

Art no.	Weight [kg]	
070030	0.015	**Plate Conn. Ø50/12mm single**

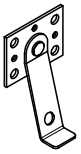
To strengthen the timber fixation and for other connections of timber with steel.

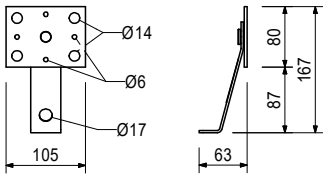




Art no.	Weight [kg]	
114937	0.402	**Fixation Bar RCS**

For fixing the cover flap to the climbing protection panel during climbing.



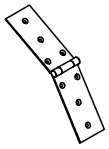


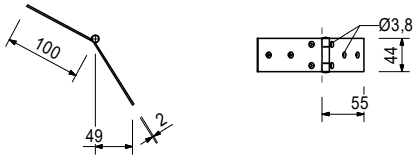
Accessory (not included)

111437	0.004	**Wood-Screw 5x20 SK-TX25 HSX**

Art no.	Weight [kg]	
111436	0.150	**Hinge DIN7957-200-ST-zn**

For mounting the cover flap at the climbing protection panel.



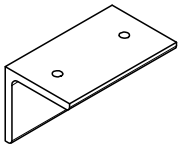


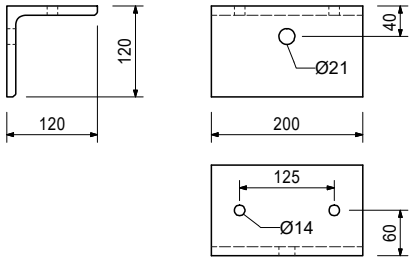
Accessory (not included)

111437	0.004	**Wood Screw 5x20 SK-TX20 HSX**
110642	0.006	**Wood Screw 5x40 SK-TX20 HSX**

Art no.	Weight [kg]	
110289	4.260	**L-Angle RCS 120x120x200mm**

For fixing end handrail posts on the decking.





Accessory (not included)

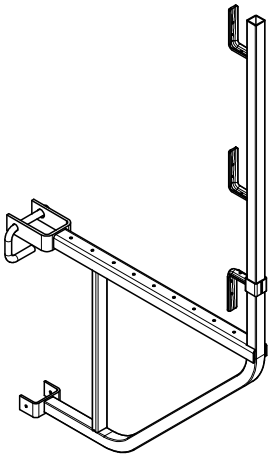
131404	1.080	**Screw-On Cou.-2 HT B Ø48mm M20**

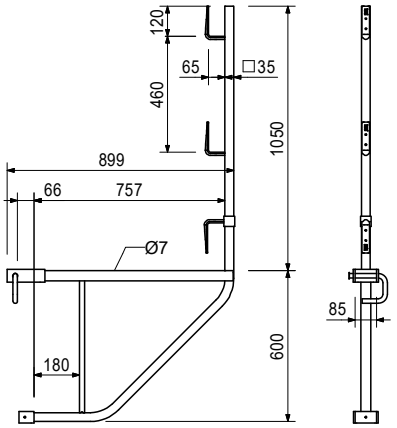
Art no.	Weight [kg]	
027110	11.000	**Scaffold Bracket GB80**

For assembly of a working and concreting scaffold with GT 24 girder.

Notes

Permissible load 150kg/m².
Maximum width of influence 1.25m.



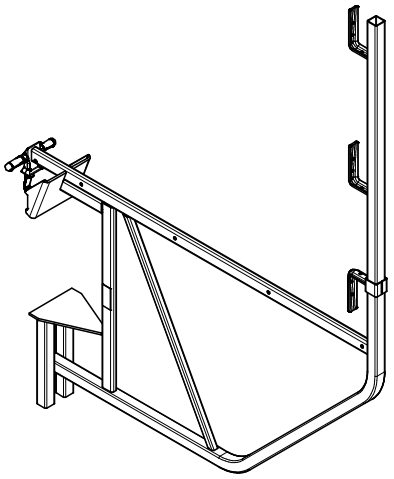


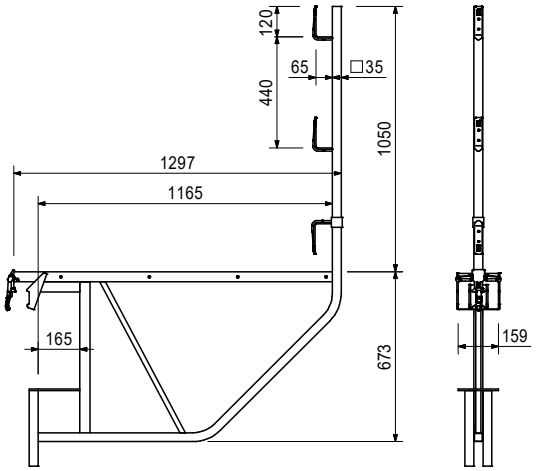
Art no.	Weight [kg]	
023680	16.600	**Scaffold Bracket TRG 120**

For assembly of a working and concreting scaffold at MAXIMO or TRIO Panels.
Mounting on horizontal or vertical struts are possible.

Notes

Automatically secured by hooking.
Permissible load 150kg/m² with maximum width of influence 1.35m.



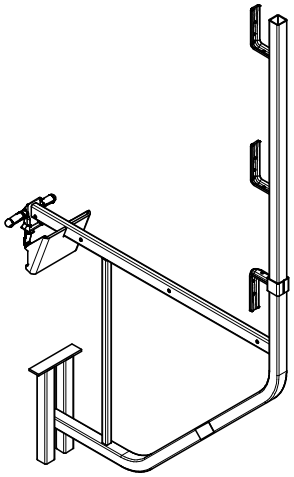


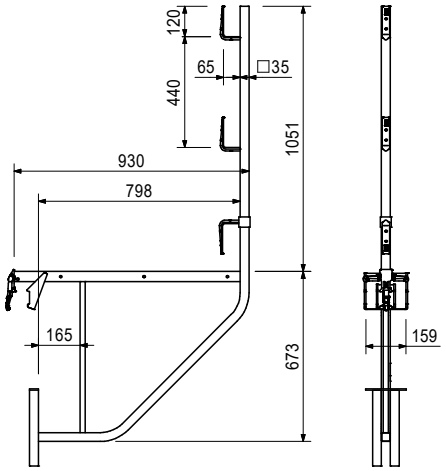
Art no.	Weight [kg]	
023670	12.500	**Scaffold Bracket TRG 80**

For assembly of a working and concreting scaffold at MAXIMO or TRIO Panels.
Mounting on horizontal or vertical struts are possible.

Notes

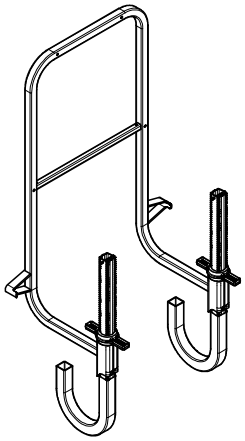
Permissible load 150kg/m² with maximum width of influence 1.35m.

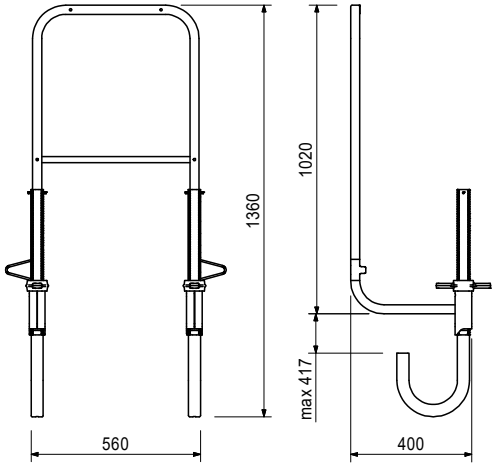




Art no.	Weight [kg]	
065066	14.800	**End Guardrail Frame 55**

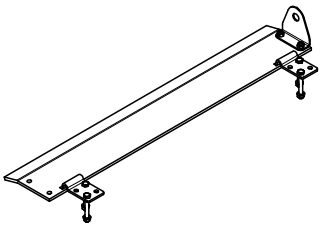
End guardrail for clamping to all PERI scaffold platforms and climbing systems.

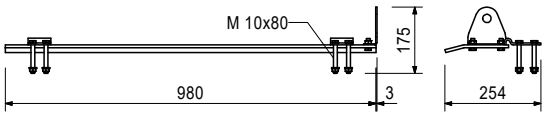




Art no.	Weight [kg]	
117771	11.400	**Platform Flap RCS 90**

Hinged cover for the gap between the extending platform and the building ceiling. Fastening to the Platform Decking.

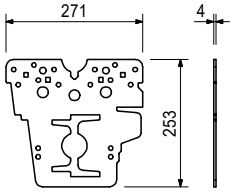




Art no.	Weight [kg]	
136622	1.450	**Multifunction Plate RCS**

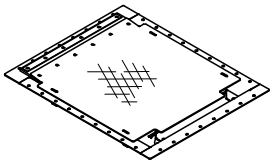
For fixing the guardrail posts RCS and scaffold tubes Ø48,3mm to platform decks and decking girders.

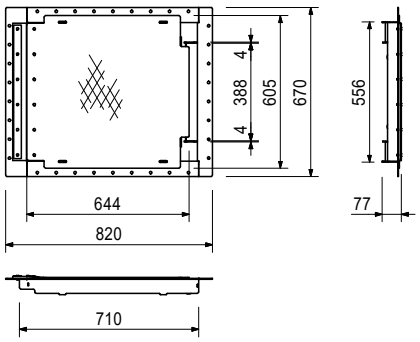




Art no.	Weight [kg]	
126431	12.300	**Hatch-2 RCS 55x60 foldable**

Self-closing hatch for ladder access. Clear opening approx. 55x60cm.
Ladder fixation with bolts or by hanging up.





Accessory (not included)

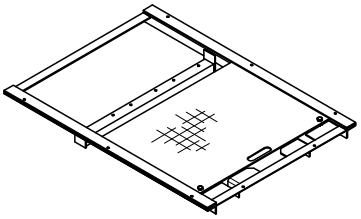
710224	0.047	**Screw ISO4017-M12x040-8.8-ga**
710381	0.017	**Hex-Nut ISO7040-M12-8-ga**

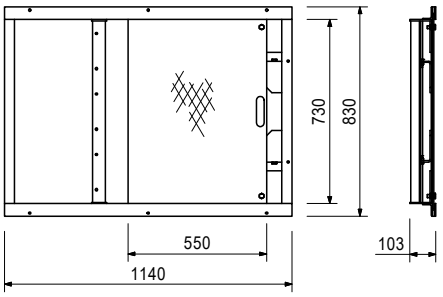
Consists of

1 pc 126785 Hatch Hinge RCS
12 pc 108647 Rivet ISO15979-5.0x20-ST/ST
2 pc 022230 Cotter Pin 5/1 ga

Art no.	Weight [kg]	
051430	37.900	**Sliding Hatch**

Non self-closing hatch for ladder access. Clear opening approx. 73x55cm. Ladder fixation with bolts.



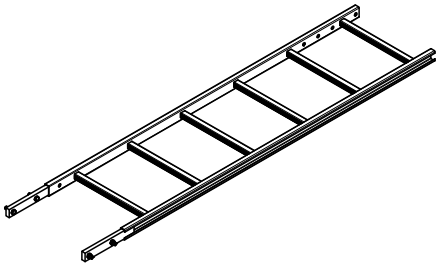


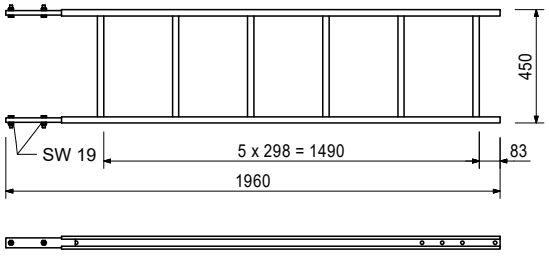
Consists of

4 pc 710266 Screw ISO4017-M12x025-8.8-ga
4 pc 710381 Hex-Nut ISO7040-M12-8-ga

Art no.	Weight [kg]	
051410	11.700	**Ladder 180/6**

For accessing PERI Formwork Systems.



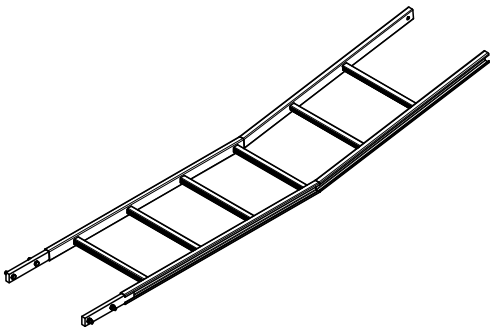


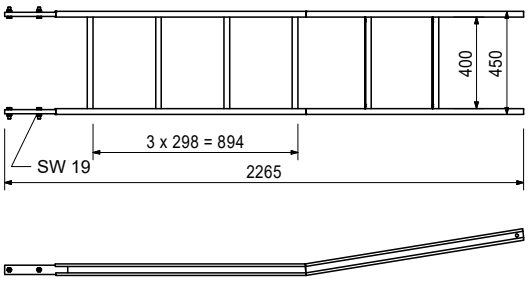
Consists of

4 pc 710224 Screw ISO4017-M12x040-8.8-ga
4 pc 710381 Hex-Nut ISO7040-M12-8-ga

Art no.	Weight [kg]	
051420	12.800	**Ladder 220/6**

As access for PERI Formwork Systems.



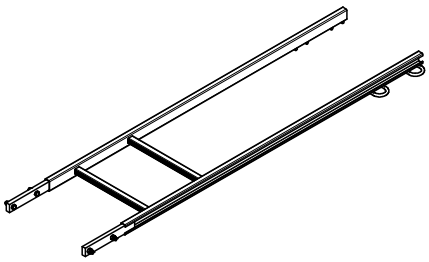


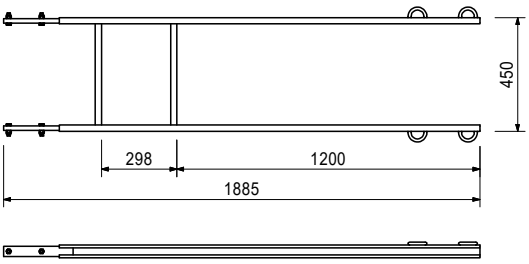
Consists of

4 pc 710224 Screw ISO4017-M12x040-8.8-ga
4 pc 710381 Hex-Nut ISO7040-M12-8-ga

Art no.	Weight [kg]	
103724	10.400	**End Ladder 180/2 cpl**

As access for PERI Formwork Systems.



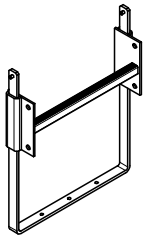


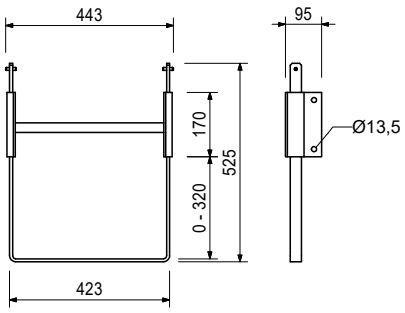
Consists of

4 pc 710224 Screw ISO4017-M12x040-8.8-ga
4 pc 710381 Hex-Nut ISO7040-M12-8-ga

Art no.	Weight [kg]	
109105	5.070	**Ladder Base 30 ga**

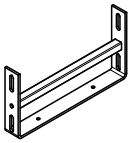
For horizontal fixing of ladders on the platform decking.

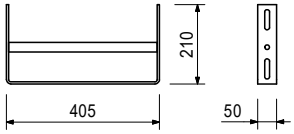




Art no.	Weight [kg]	
051460	2.180	**Ladder Base ga**

As bottom ladder connection and for securing ladders against sliding on the scaffold decks.

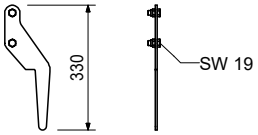




Art no.	Weight [kg]	
103718	0.684	**Ladder Hook**

For adjusting the bottom ladder. Always use in pairs.



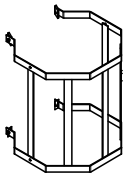


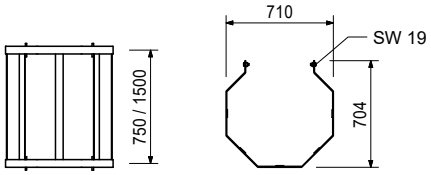
Consists of

2 pc 710266 Screw ISO4017-M12x025-8.8-ga
2 pc 710381 Hex-Nut ISO7040-M12-8-ga

Art no.	Weight [kg]	
		Ladder Safety Cages
104132	15.600	**Ladder Safety Cage 75**
051450	25.200	**Ladder Safety Cage 150**

Ladder cage for PERI ladder access.



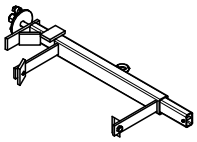


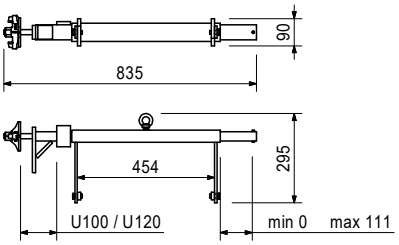
Consists of

4 pc 710266 Screw ISO4017-M12x025-8.8-ga
4 pc 701763 Clamping Plate FL 25x10x90mm

Art no.	Weight [kg]	
111165	6.260	**Ladder Connector VARIO adj.**

For connecting ladders to Steel Walers SRZ and SRU Profile U100–U120.



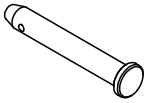


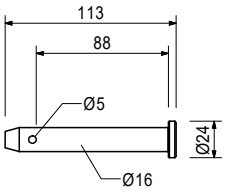
Consists of

2 pc 710266 Screw ISO4017-M12x025-8.8-ga
2 pc 701763 Clamping Plate FL 25x10x90mm

Art no.	Weight [kg]	
118463	0.181	**Pin Ø16x90mm coat**

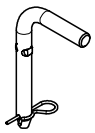
For different connections. High strength.

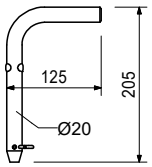




Art no.	Weight [kg]	
037160	0.736	**Pin Ø20x205mm ga**

For various connections.



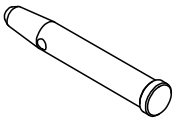


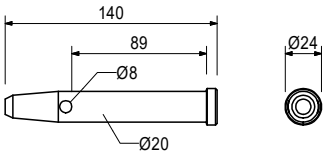
Consists of

1 pc 018060 Cotter Pin 4/1 ga

Art no.	Weight [kg]	
105400	0.330	**Pin Ø20x140mm ga**

For different connections.



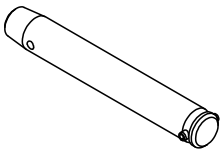


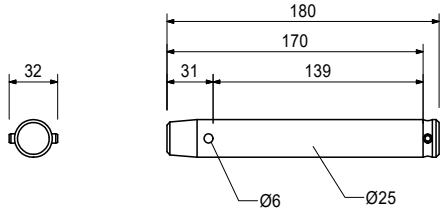
Accessory (not included)

018060	0.014	**Cotter Pin 4/1 ga**

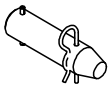
Art no.	Weight [kg]	
715936	0.672	**Pin with Clamping Sleeve**

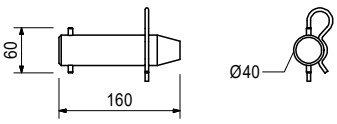
For different connections. High strength.



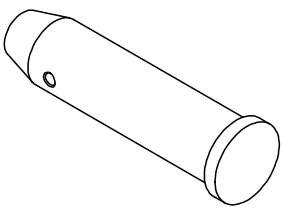


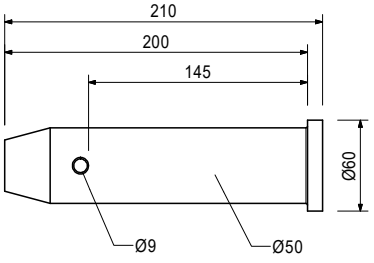
Art no.	Weight [kg]	
127400	1.490	**Pin Ø40x160mm**



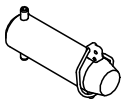


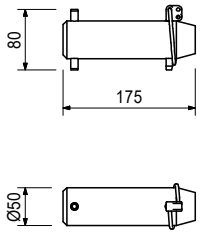
Art no.	Weight [kg]	
710545	3.150	**Pin Ø50x150mm coat**





Art no.	Weight [kg]	
127397	2.660	**Pin Ø50x175mm**

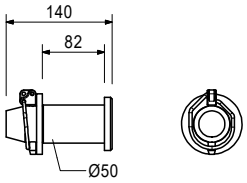




Art no.	Weight [kg]	
130831	2.430	**Pin Hinge Connector RCS**

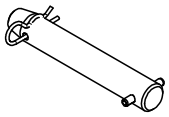
For different connections. High strength.

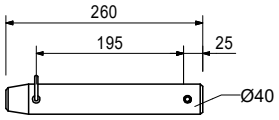




Art no.	Weight [kg]	
112547	2.490	**Pin HD Ø40x260mm**

For connecting the Truss Strut HD with the Truss Bracket HD.



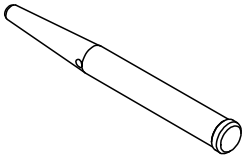


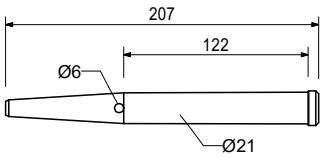
Consists of

1 pc 022230 Cotter Pin 5/1 ga
1 pc 722457 Sleeve ISO8752-10.0x070-coat

Art no.	Weight [kg]	
104031	0.462	**Fitting Pin Ø21x120mm**

For different connections. High strength.



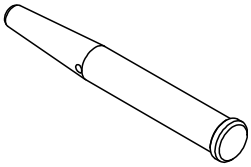


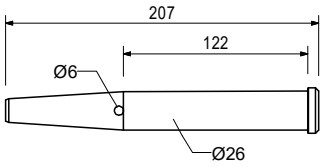
Accessory (not included)

018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
111567	0.729	**Fitting Pin Ø26x120mm**

For different connections. High strength.

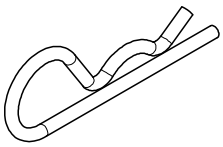




Accessory (not included)

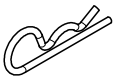
018060	0.014	**Cotter Pin 4/1 ga**

Art no.	Weight [kg]	
018060	0.014	**Cotter Pin 4/1 ga**



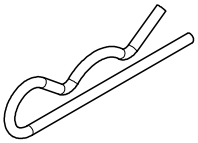


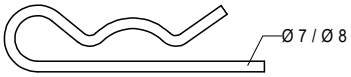
Art no.	Weight [kg]	
022230	0.033	**Cotter Pin 5/1 ga**



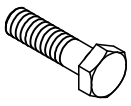


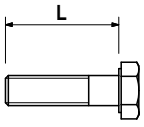
Art no.	Weight [kg]	
710618	0.098	**Cotter Pin 8/1 coat**





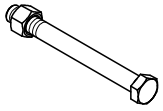
Art no.	Weight [kg]		L [mm]
		Screws ISO4014-8.8-ga	
710285	0.050	**Screw ISO4014-M08-100-8.8-ga**	100
101949	0.015	**Screw ISO4014-M08x030-8.8-ga**	30
710220	0.087	**Screw ISO4014-M12x080-8.8-ga**	80
024900	0.255	**Screw ISO4014-M20x080-8.8-ga**	80
024910	0.303	**Screw ISO4014-M20x080-8.8-ga**	100
710226	0.340	**Screw ISO4014-M20x090-8.8-ga**	90
711078	0.360	**Screw ISO4014-M20x130-8.8-ga**	130
113766	0.518	**Screw ISO4014-M20x180-8.8-ga**	180

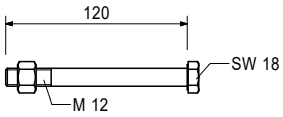




Art no.	Weight [kg]		L [mm]
070100	0.132	**Screw ISO4016-M12x120-4.6-ga-N**	120

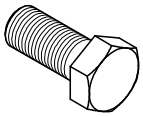
For uses with small loads, including nut.

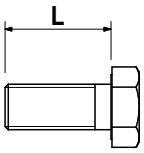




Art no.	Weight [kg]		L [mm]
		Screws ISO4017-8.8-ga	
710224	0.047	**Screw ISO4017-M12x040-8.8-ga**	40
110598	0.142	**Screw ISO4017-M12x140-8.8-ga**	140
110599	0.242	**Screw ISO4017-M12x240-8.8-ga**	240
123844	0.130	**Screw ISO4017-M20x035-8.8-ga**	35
780357	0.178	**Screw ISO4017-M20x050-8.8-ga**	50
721912	0.244	**Screw ISO4017-M20x070-8.8-ga**	70
706480	0.214	**Screw ISO4017-M24x030-8.8-ga**	30
029420	0.590	**Screw ISO4017-M30x070-8.8-ga**	70
111759	0.760	**Screw ISO4017-M30x090-8.8-ga**	90

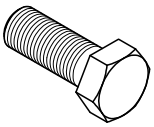
Alternative to Leading Screw M30 galvanized, item number: 029450.

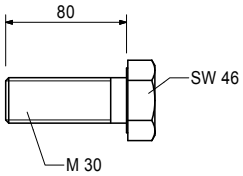




Art no.	Weight [kg]	
123843	0.623	**Screw ISO4017-M30x080-10.9**

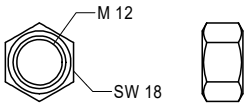
For attaching Anchor Shoe H ACS and Anchor Shoe V ACS to Climbing Cone-2 M30/DW20 or Screw-On Cone M30/DW26.





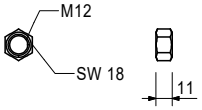
Art no.	Weight [kg]	
104526	0.017	**Hex-Nut ISO4032-M12-8**



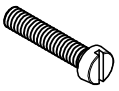


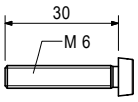
Art no.	Weight [kg]	
710330	0.017	**Hex-Nut ISO4032-M12-8-ga**



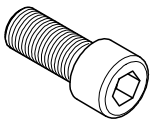


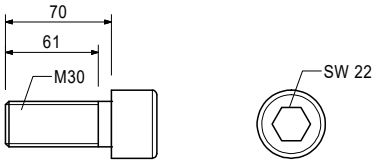
Art no.	Weight [kg]	
051759	0.050	**Screw ISO1207-M06x030-4.8-ga**





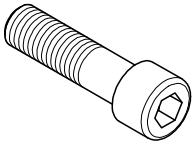
Art no.	Weight [kg]		L [mm]
113007	0.700	**Screw ISO4762-M30x70-8.8-ga**	70

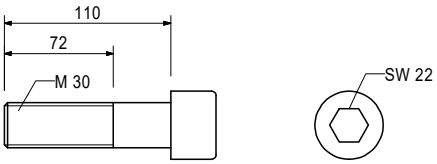




Art no.	Weight [kg]	
051728	0.800	**Screw ISO4762-M30x110-10.9**

For attaching Climbing Shoe ACS, Climbing Shoe-2 ACS and Anchor Tube ACS right or left to Climbing Cone-2 M30/DW20 or Screw-On Cone M30/DW26





Art no.	Weight [kg]	
		Hex-Nuts ISO7040-ga
711071	0.004	**Hex-Nut ISO7040-M08-8-ga**
710381	0.017	**Hex-Nut ISO7040-M12-8-ga**
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**

Self-locking.

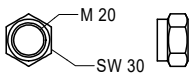




Art no.	Weight [kg]	
130341	0.063	**Hex-Nut ISO7042-M20-8-ga**

Self-locking.





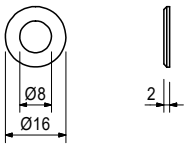
Art no.	Weight [kg]	
		Washers ISO7089-200 HV-ga
706454	0.017	**Washer ISO7089-20-200HV-ga**
725574	0.009	**Washer ISO7089-14-200HV-ga**
780354	0.002	**Washer ISO7089-08-200HV-ga**



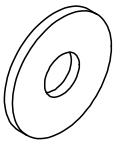


Art no.	Weight [kg]	
722356	0.002	**Washer ISO7090-08-200HV**



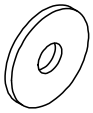


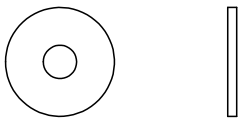
Art no.	Weight [kg]	
		Washers ISO7093-1-200 HV-ga
750350	0.027	**Washer ISO7093-1-12-200HV-ga**
710342	0.007	**Washer ISO7093-1-08-200HV-ga**





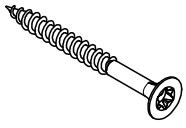
Art no.	Weight [kg]	
		Washers ISO7094-100HV-ga
129975	0.210	**Washer ISO7094-24-100HV-ga**
113350	0.174	**Washer ISO7094-20-100HV-ga**
113349	0.087	**Washer ISO7094-16 100HV-ga.**
113348	0.043	**Washer ISO7094-12-100HV-ga**
125719	0.019	**Washer ISO7094-10-100HV-ga**
113347	0.013	**Washer ISO7094-08-100HV-ga**
113819	0.368	**Washer ISO7094 30 100HV-ga.**

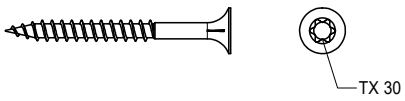




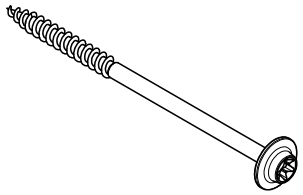
Art no.	Weight [kg]	
		Wood Screws SK-HPI
113806	0.002	**Wood Screw 4.5x40 SK-TX20 HPI**
103444	0.009	**Wood Screw 8x37 SK-TX30 HPI**
103443	0.036	**Wood Screw 8x78 SK-TX30 HPI**
024540	0.005	**Wood-Screw 6x40 SK-TX30 HPI**
024470	0.008	**Wood-Screw 6x60 SK-TX30 HPI**
024670	0.010	**Wood-Screw 6x60 SK-TX30 HPI ma**
110272	0.006	**Wood-Screw 6x60 ZK-TX30 HPI**
024690	0.008	**Wood-Screw 6x80 SK-TX30 HPI**
109790	0.008	**Wood-Screw 8x35 SK-TX30 HPI**
104892	0.010	**Wood-Screw 8x44 SK-TX30 HPI**
104647	0.013	**Wood-Screw 8x58 SK-TX30 HPI**

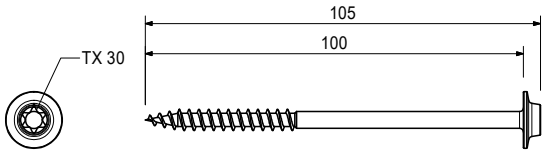
For Torx Bit Points TX30. Self-drilling.



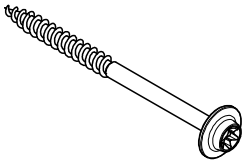


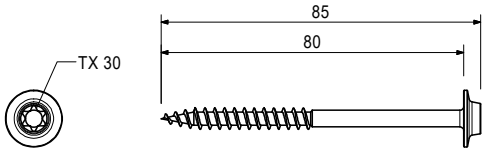
Art no.	Weight [kg]	
104911	0.013	**Wood-Screw 6x100 RK-TX30 HPI**





Art no.	Weight [kg]	
104912	0.011	**Wood-Screw 6x80 RK-TX30 HPI**

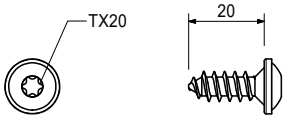




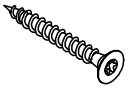
Art no.	Weight [kg]		L [mm]
024550	0.005	**Wood-Screw 8x20 SK-TX30 HSX**	20

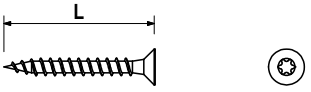
For Torx blade TX30. Self-drilling.





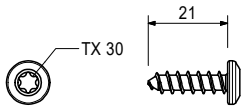
Art no.	Weight [kg]	
		Wood Schrews SK HSK
102109	0.005	**Wood Screw 3.5x45 SK-Z2 HSX**
138247	0.005	**Wood Screw 4x70 SK-TX20 HSX**
138238	0.004	**Wood Screw 5x25 SK-TX20 HSX**
110642	0.006	**Wood Screw 5x40 SK-TX20 HSX**
138239	0.006	**Wood Screw 6x60 SK-TX30 HSX**
138240	0.006	**Wood Screw 6x70 SK-TX30 HSX**
138241	0.006	**Wood Screw 6x80 SK-TX30 HSX**
138242	0.006	**Wood Screw 6x90 SK-TX30 HSX**
024960	0.015	**Wood Screw 6x120 SK-TX30 HSX**
024970	0.017	**Wood Screw 6x140 SK-TX30 HSX**
024980	0.019	**Wood Screw 6x160 SK-TX30 HSX**
024990	0.021	**Wood Screw 6x180 SK-TX30 HSX**
111437	0.004	**Wood-Screw 5x20 SK-TX25 HSX**
105847	0.005	**Wood-Screw 5x25 SK-Z2 HSX**
024950	0.012	**Wood-Screw 6x100 SK-TX30 HSX**



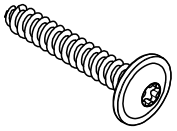


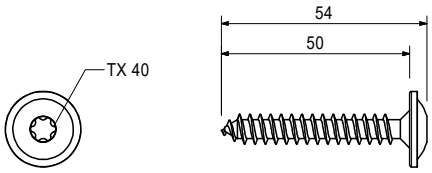
Art no.	Weight [kg]	
129711	0.010	**Wood Screw 6x20 HRK-TX30 HSX**



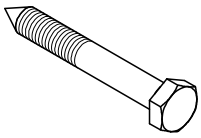


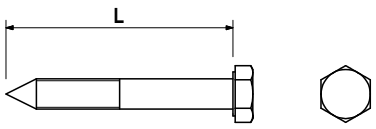
Art no.	Weight [kg]		L [mm]
138246	0.005	**Wood Screw 8x50 TK-TX40 HSX**	54





Art no.	Weight [kg]		L [mm]
		Hex-Wood-Screws DIN571 ga	
029440	0.005	**Hex-Wood-Screw 6x20 DIN571-ga**	20
024270	0.023	**Hex-Wood-Screw 8x60 DIN571 ga**	60

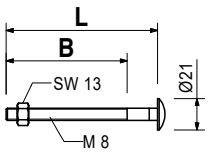




Art no.	Weight [kg]		B [mm]	L [mm]
		Screws DIN603-M08-ga-Nu		
710295	0.028	**Screw DIN603-M08x045-4.8-ga-Nu**	22	45
710326	0.030	**Screw DIN603-M08x060-4.8-ga-Nu**	22	60
710709	0.036	**Screw DIN603-M08x065-4.8-ga-Nu**	22	65
710240	0.050	**Screw DIN603-M08x100-4.8-ga-Nu**	80	100
108834	0.085	**Screw DIN603-M08x180-4.6-ga-Nu**	28	180
024390	0.090	**Screw DIN603-M08x200-4.8-ga-Nu**	150	200

With nut.

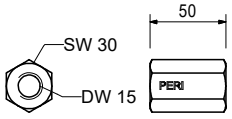




Art no.	Weight [kg]	
030070	0.222	**Hex-Nut DW15 SW30 50mm ga**

For anchoring with Tie Rod DW15 and B15.



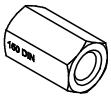


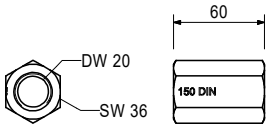
Art no.	Weight [kg]	
030580	0.371	**Hex-Nut DW20 SW36 60mm weldab.**

For anchoring with Tie Rod DW20 and B20.

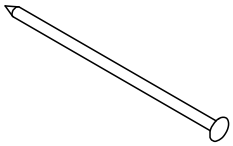
Notes

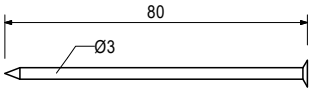
Weldable! Permissible load 150 kN.



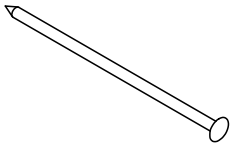


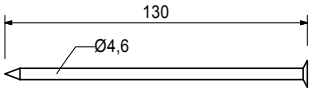
Art no.	Weight [kg]	
710312	0.005	**Wire Nail 3.0x80mm**





Art no.	Weight [kg]	
129157	0.017	**Wire Nail 4.6x130mm**

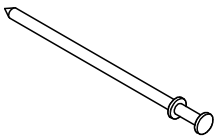


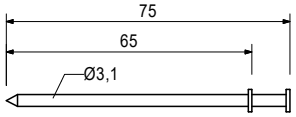


Art no.	Weight [kg]	
018280	1.000	**Double Head Nail 65mm**

Notes

Delivery unit: carton with 1000 pieces.



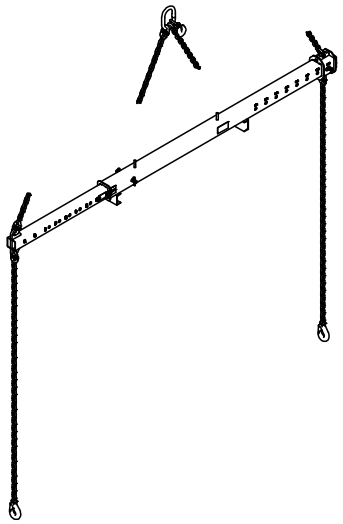


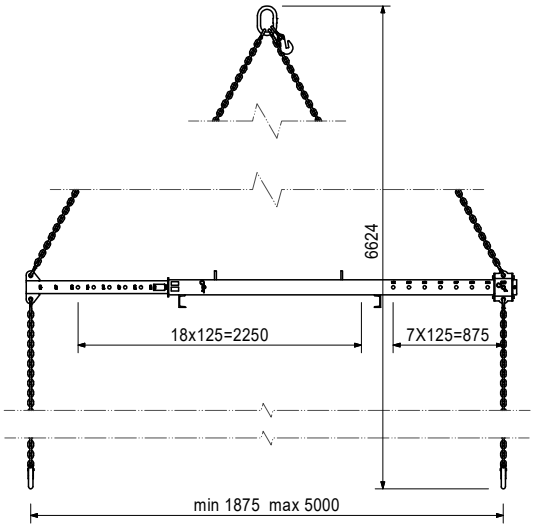
Art no.	Weight [kg]	
127320	158.000	**Lifting Beam 9t**

For moving climbing units.

Notes

Follow Instructions for Use.
Permissible load-bearing capacity 9t.





Consists of

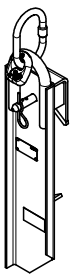
1 pc 112865 Locking Pin Ø25x180mm coat
1 pc 022230 Cotter Pin 5/1 ga
1 pc 107297 Screw ISO4014-M12x140-8.8-ga
1 pc 710330 Hex-Nut ISO4032-M12-8-ga

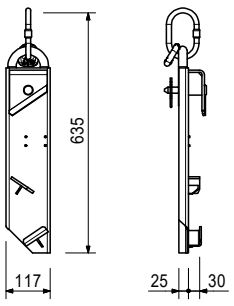
Art no.	Weight [kg]	
070760	4.680	**Crane Splice GT 24**

For transporting elements by crane with the GT 24 Girder.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity 700kg with crane sling angle ≤ 15°.





Consists of

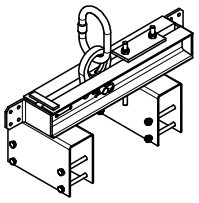
1 pc 018050 Pin Ø16x65/86mm ga
1 pc 018060 Cotter Pin 4/1 ga

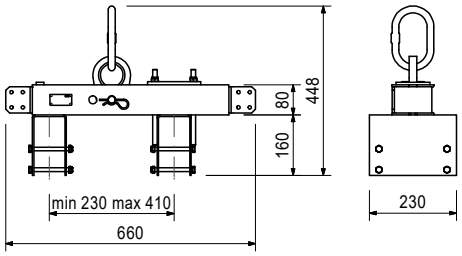
Art no.	Weight [kg]	
111238	19.800	**Crane Splice GT 24 2t**

For transporting elements by crane with the GT 24 Girder. Adjustable from 230 to 410mm.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity 2t with crane sling angle ≤ 30°.





Consists of

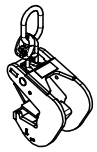
1 pc 018060 Cotter Pin 4/1 ga
8 pc 710138 Screw ISO4014-M10x110-8.8-ga
8 pc 780356 Hex-Nut ISO7040-M10-8-ga

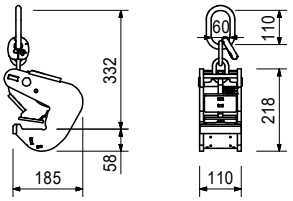
Art no.	Weight [kg]	
115168	6.950	**Lifting Hook MX 1.5t**

For transporting MAXIMO and TRIO Panels.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity: Steel elements 1.5t. Alu elements 750kg.





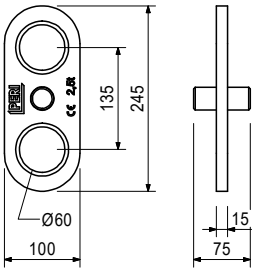
Art no.	Weight [kg]	
127834	2.210	**Lifting Eye-2 BR 2.5t ga**

As attachment point for moving climbing systems or Platform Beam BR.

Notes

Follow Instructions for Use!
Permissible load-bearing capacity 2.5t.





Accessory (not included)

020620	0.561	**Spacer for BR**

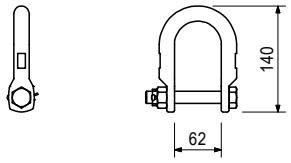
Art no.	Weight [kg]	
127821	0.957	**Crane Eye-2 CB 240 0.7t**

For assembly on the Climbing Bracket CB 240 when used as working scaffold.

Notes

Follow Instructions for Use!
Permissible load-bearing capacitiy 700kg.



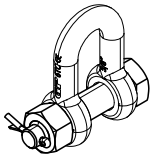


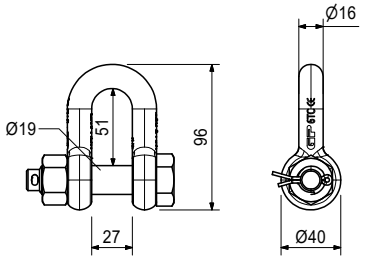
Consists of

1 pc 128335 Screw ISO4014-M16x110 mach
1 pc 126248 Castle-Nut DIN935-M16-8-ga
1 pc 722825 Cotter Pin ISO1234-04.0x030-st

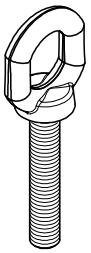
Art no.	Weight [kg]	
130616	0.670	**Shackle Ø16/Ø19mm 3.25t Hex-N.**

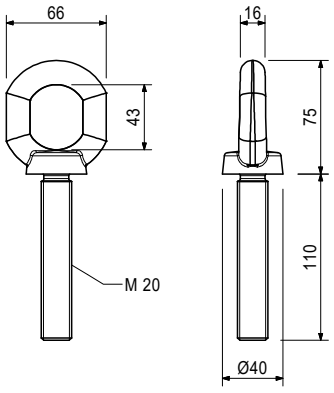
For attaching loads or mounting formwork elements, Trolleys HTP 2000kg by means of Turnbuckle CB M20/DW15.





Art no.	Weight [kg]	
724812	0.656	**Eyebolt M20x110mm coat**

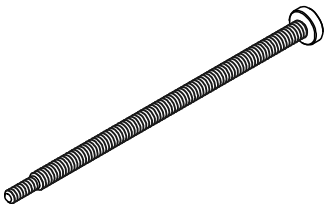


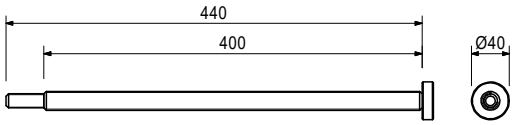


Accessory (not included)

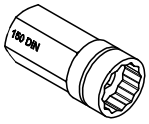
781053	0.065	**Hex-Nut ISO7040-M20-8-ga**
113350	0.174	**Washer ISO7094-20 100HV-ga.**

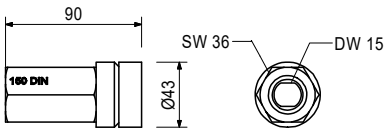
Art no.	Weight [kg]	
130585	1.160	**Multi Tool VCB**



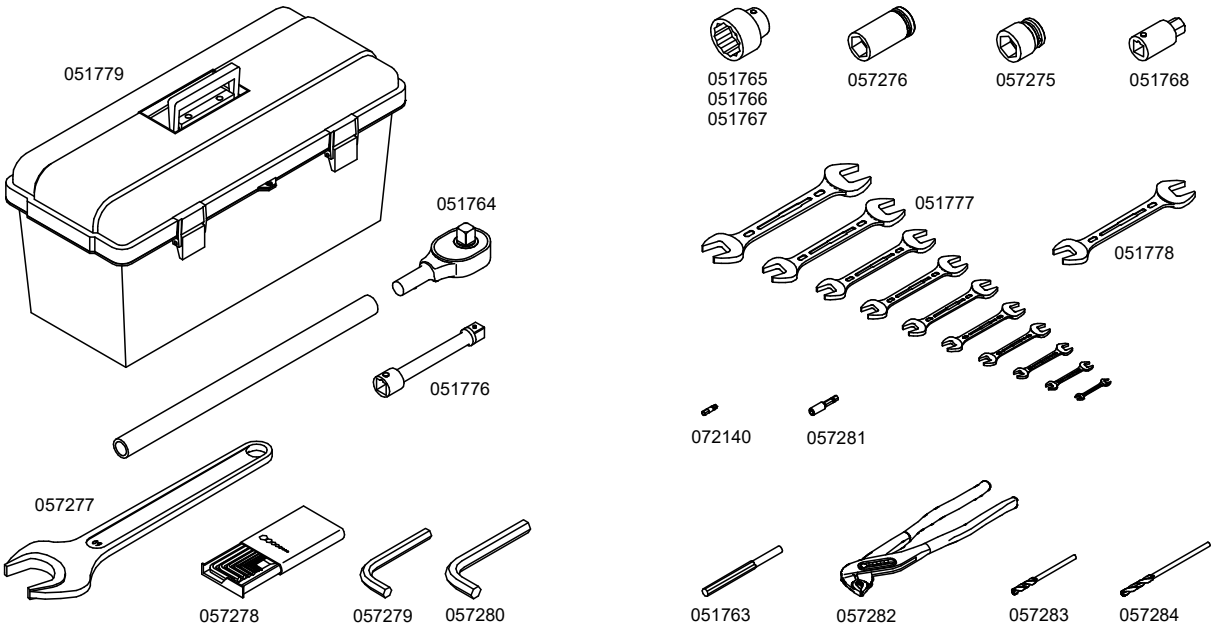


Art no.	Weight [kg]	
129783	0.568	**Plug Lock Hex-Nut VCB DW15**



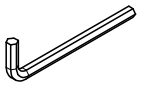


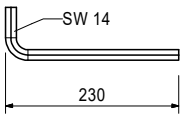
Art no.	Weight [kg]	
		Tools ACS
057281	0.042	**Bit Clip for TX30**
051777	1.650	**Double Spanner Set 10-pcs.**
051778	0.350	**Double Spanner SW24/SW27**
051763	0.125	**Driftpin 10mm**
057284	0.065	**Drill Bit HSS 9mm long**
057283	0.042	**Drill Bit HSS 9mm short**
051776	0.520	**Extension 3/4“ 200mm**
057277	1.510	**Open-End Wrench SW60**
057282	0.500	**Pipe Wrench**
051764	2.650	**Ratchet Wrench 3/4“**
057278	0.405	**Socket Set 8 Pieces**
057279	0.260	**Socket SW14**
057280	0.430	**Socket SW17**
051765	0.235	**Socket SW19 3/4“**
051768	0.500	**Socket SW22 3/4“**
051766	0.215	**Socket SW24 3/4“**
057276	0.625	**Socket SW30 3/4“**
051767	0.660	**Socket SW46 3/4“**
051779	3.500	**Tool Box 457x257x255mm**
051761	13.700	**Tool Set ACS**
072140	0.005	**Torx Bit TX30**



Art no.	Weight [kg]	
027212	0.445	**Hexag. Recess Wrench SW14 long**

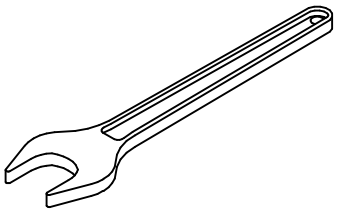
Fits PERI Positioning Discs and Allen Key Bolts M16.





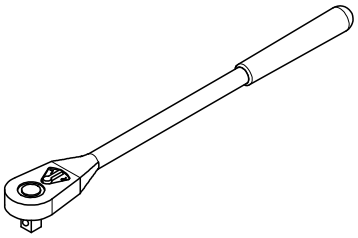
Art no.	Weight [kg]	
		Open-End Wrench SW
138687	0.420	**Open-End Wrench SW30**
138686	0.446	**Open-End Wrench SW36**
027211	0.760	**Open-End Wrench SW46 for SB**
057277	1.510	**Open-End Wrench SW60**
027213	2.300	**Open-End Wrench SW70**
027210	3.300	**Open-End Wrench SW80 for SB**

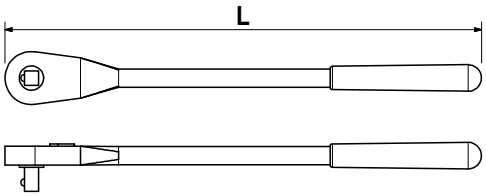
For different applications.





Art no.	Weight [kg]		L [mm]
		Ratchet Wrenches	
072180	0.560	**Ratchet Wrench 1/2“**	300
029610	5.300	**Ratchet Wrench 1“**	900
051764	2.650	**Ratchet Wrench 3/4“**	630





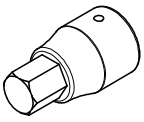
Art no.	Weight [kg]	
		Sockets
029620	0.075	**Socket SW19 1/2“**
104823	0.175	**Socket SW30 1/2“**
057276	0.625	**Socket SW30 3/4“**
102785	0.452	**Socket SW36 3/4“**
029630	0.580	**Socket SW46 1“**
029640	1.000	**Socket SW55 1“**

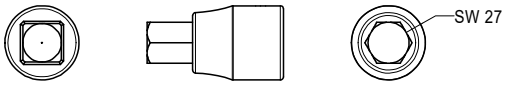




Art no.	Weight [kg]	
123750	0.776	**Hexagon Socket SW27 1“**

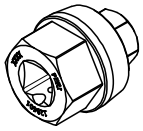
Fits to Screw ISO4762-M36.

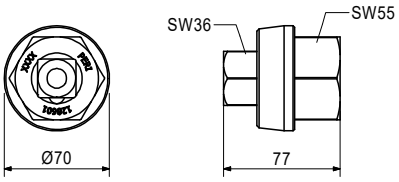




Art no.	Weight [kg]	
128601	1.280	**Recovering Tool SW36**

For the installation of Heavy Duty Cones M36/DW26 - Ø108 by means of Ratchet Wrench 1˝ and Socket SW55 1˝.



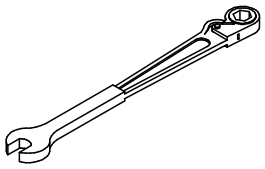


Art no.	Weight [kg]	
021790	1.000	**Combi Ratchet Spanner SW24**

For adjusting RUNDFLEX Panels and Cantilevered Parapet Platform GKB.

Notes

Length approx. 500mm.

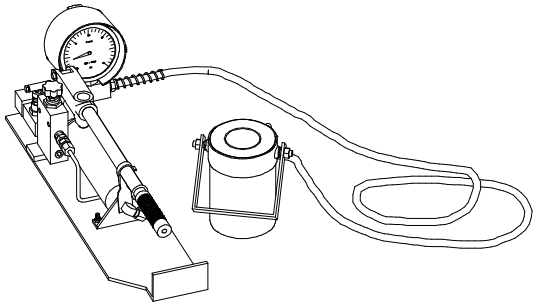


Art no.	Weight [kg]	
030460	60.000	**Pretension Jack for DW15/20/26**

For pre-tensioning tie rods, pulling out tie rods embedded in the concrete and for clean connecting surfaces at concrete joints. Complete in metal box.

Notes

Follow Instructions for Use!
Maximum tensile force 300 kN.

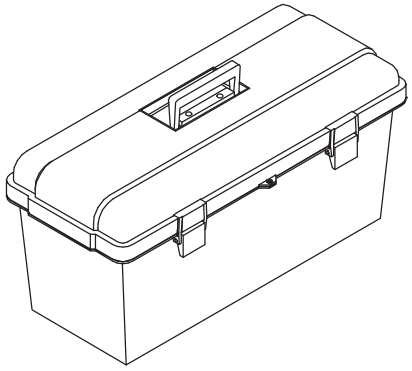


Consists of

1 pc 030663 Adapter-I f. Pretension Jack
1 pc 030664 Adapter-III f. Pretension Jack

Art no.	Weight [kg]	
115581	10.280	**Service Box Hydraulics**

Consisting of:
1 pc. 115590 Tool Box 580x260x285mm
6 pc. 115583 Pressure Gauge Typ 570 VA-Geh.
6 pc. 115584 Hose MKT 6-02 DN 02
12 pc. 115582 Measuring Coupl. SMK 20-G 1/4-PC
2 pc. 115591 Double Spanner SW10x13
1 pc. 115592 Double Spanner SW13x17
1 pc. 135172 Double Spanner SW19x22
1 pc. 115588 Double Spanner SW19x24
1 pc. 051778 Double Spanner SW24x27
1 pc. 115589 Double Spanner SW27x32
1 pc. 057278 Allen Key Set 8 pcs.
1 pc. 115585 Allen Key SW12
1 pc. 057279 Allen Key SW14
1 pc. 057282 Pipe Wrench
1 pc. 115147 Angle Fitting Set PS
2 pc. 115396 Fitting Set PS RCS short
1 pc. 072180 Ratchet Wrench 1/2"
20 pc. 123881 Tube Screw Plug ROV12SX
20 pc. 123880 Threaded Plug VKAN 12S VIT
100 pc. 051760 Cable Binder NT-240H
2 pc. 126425 Distance Piece Ø120mm coat
1 pc. 126440 Socket SW17 1/2"
1 pc. 135173 Allen Key SHR-Bit SW05
1 pc. 135174 Allen Key SHR-Bit SW06
1 pc. 135175 Allen Key SHR-Bit SW08
1 pc. 135176 Allen Key SHR-Bit SW10
1 pc. 135177 SHR Screwdriver Bit 6 parts Slot/PH
2 pc. 711035 PERI Label 128x65mm
1 pc. 126434 List of contents Hydraulic Service Case

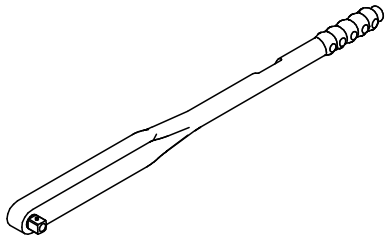


Art no.	Weight [kg]	
133372	6.800	**Cordless Screwdriver-Set ACS**

Consists of

1 pc 133356 Screwdriver ACS 18V
1 pc 111435 Socket SW17 1/2"
1 pc 133369 Extension 125mm 1/2"
1 pc 133370 Adaptor 1/4" to C6.3 hex.
1 pc 133371 Adaptor 1/4" on 1/2"

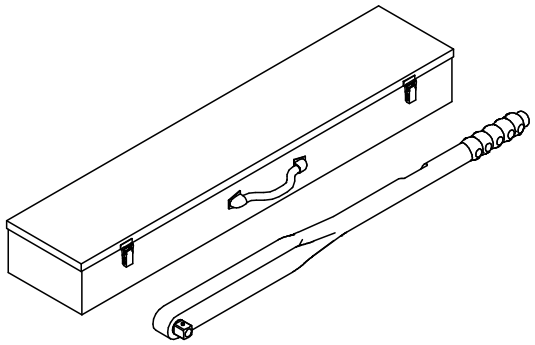
Art no.	Weight [kg]	
138813	1.000	**Torque Wrench 40-200Nm**



Art no.	Weight [kg]	
057090	6.700	**Torque Wrench 140-760Nm**

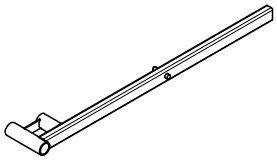
Notes

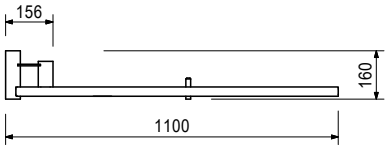
Outer square 3/4“
length: 812mm
incl. sheet metal case



Art no.	Weight [kg]	
110950	4.760	**Excentric Lever RCS**

For dismantling Climbing Shoe RCS.



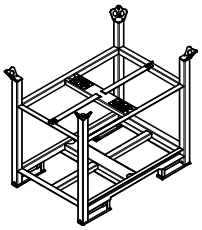


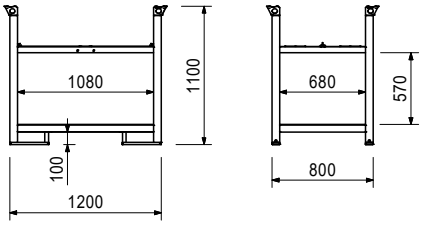
Art no.	Weight [kg]	
136165	59.000	**Pallet RB Hydr.Pump RCS MAX**

For transportation of up to 4 Hydraulic Pumps RCS MAX.

Notes

Pay attention to the stacking height!
Follow Assembly Instructions!



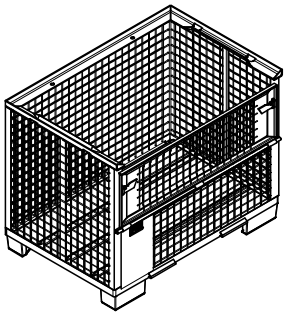


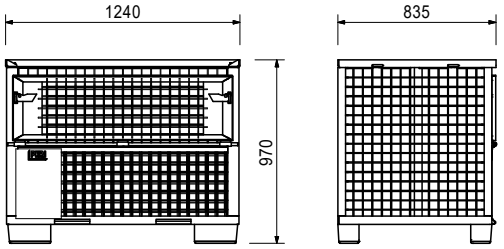
Art no.	Weight [kg]	
065068	88.200	**Grate Pallet 80x120 ga**

For stacking and transportation of formwork and scaffold components.

Notes

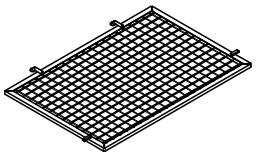
Follow Instructions for Use!
Capacity approx. 0.75m³.
Load-carrying capacity 1.5t.

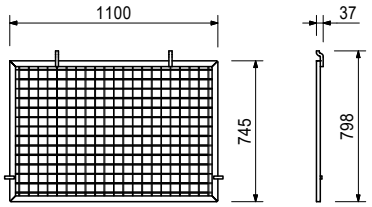




Art no.	Weight [kg]	
065067	9.410	**Lid for Grate Pallet 80x120**

For closing Crate Pallets 80x120 or Hardware Boxes 80x120.



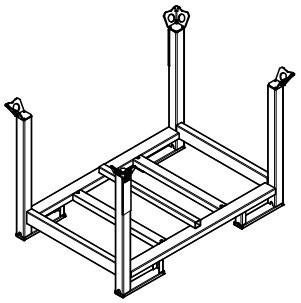


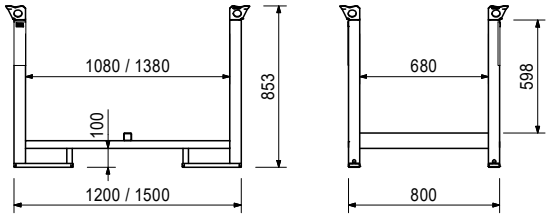
Art no.	Weight [kg]		L [mm]
		Pallets RP-2	
103434	38.500	**Pallet RP 80x120/2 ga**	1200
103429	45.300	**Pallet RP 80x150/2 ga**	1500

For stacking and transportation of formwork and scaffolding components.

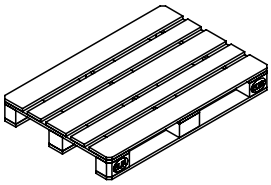
Notes

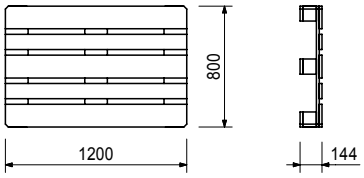
Follow Instructions for Use!
Permissible load-bearing capacity 1.5t.





Art no.	Weight [kg]	
065015	28.000	**Euro Flat Pallet 80x120**



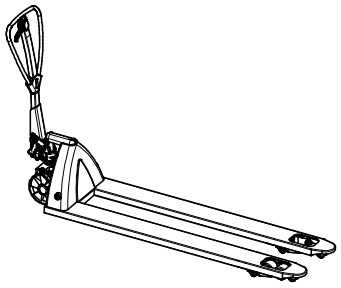


Art no.	Weight [kg]	
061510	105.000	**Pallet Lifting Trolley 1800mm**

For moving pallets and crate pallets.

Notes

Follow Instructions for Use!
Forklift arm length 1800mm, forklift arm width 550mm, stroke range 115mm.
Permissible load-bearing capacity 2t.



The optimal System for every Project and every Requirement



Wall Formwork



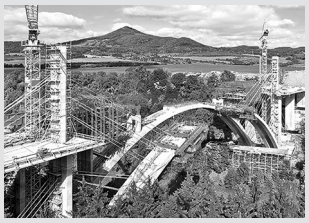
Column Formwork



Slab Formwork



Climbing Systems



Bridge Formwork



Tunnel Formwork



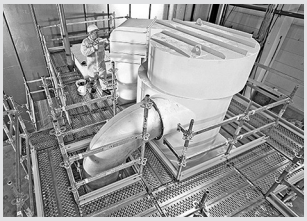
Shoring Systems



Construction Scaffold



Facade Scaffold



Industrial Scaffold



Access



Protection Scaffold



Safety Systems



System-Independent Accessories



Services

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