Dismantling inside corner post LOGO.3 and Modular

Technical Information

PASCHAL

Service in Formwork + Shoring

PASCHAL-Werk G. Maier GmbH
Kreuzbühlstraße 5 · 77790 Steinach · Germany
Phone: +49 (0)78 32/71-0 · Fax: +49 (0)78 32/71-209
service@paschal.de · www.paschalinternational.com

Important information regarding the intended use and safe application of formwork and falsework
Version 08.2009

The contractor is responsible for drawing up a comprehensive risk assessment and a set of installation instructions. The latter is not usually identical to the assembly instructions.

• Risk Assessment
The contractor is responsible for the compilation, documentation, implementation and revision of a risk assessment for each construction site. His employees are obliged to implement the measures resulting from this in accordance with all legal requirements.

• Installation Instructions
The contractor is responsible for compiling a written set of installation instructions. The assembly instructions forms part of the basic for the compilation of a set of installation instructions.

• Assembly Instructions
Formwork is technical work equipment which is intended for commercial use only. The intended use must take place exclusively through properly trained personnel and appropriately qualified supervising personnel.
The assembly instructions are an integral component of the formwork construction. They comprise at least safety guidelines, details on the standard configuration and intended use, as well as the system description. The functional instructions (standard configuration) contained in the assembly instructions are to be complied with as stated. Enhancements, deviations or changes represent a potential risk and therefore require separate verification (with the help of a risk assessment) or a set of installation instructions which comply with the relevant laws, standards and safety regulations. The same applies in those cases where formwork and/or falsework components are provided by the contractor.

• Availability of the Assembly Instructions
The contractor has to ensure that the assembly instructions provided by the manufacturer or formwork supplier are available at the place of use. Site personnel are to be informed of this before assembly and use takes place, and that they are available at all times.

• Representations
The representations shown in the assembly instructions are, in part, situations of assembly and not always complete in terms of safety considerations. The safety installations which have possibly not been shown in these representations must nevertheless be available.

• Storage and Transportation
The special requirements of the respective formwork constructions regarding transportation procedures as well as storage must be complied with. By way of example, name the appropriate lifting gear to be used.

• Material Check
Formwork and falsework material deliveries are to be checked on arrival at the construction site/ place of destination as well as before each use to ensure that they are in perfect condition and function correctly. Changes to the formwork materials are not permitted.

• Spare Parts and Repairs
Only original components may be used as spare parts. Repairs are to be carried out by the manufacturer or authorized repair facilities only.

• Use of Other Products
Combining formwork components from different manufacturers carries certain risks. They are to be individually verified and can result in the compilation of a separate set of assembly instructions required for the installation of the equipment.

• Safety Symbols
Individual safety symbols are to be complied with.
Examples:


Safety information: non-compliance can lead to damage tomaterials or risk to the health of site personnel(alsolife)


Visual check: the intended operation is to be carried out through a visual check.


Note: supplementary information for safe, correct and professional execution of work activities.

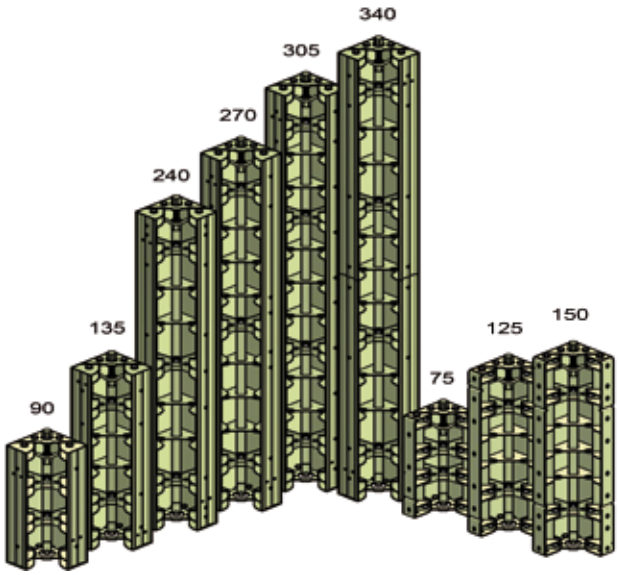
• Miscellaneous
Technical improvements and modifications are subject to change without notice. For the safetyrelated application and use of the products, all current country-specific laws, standards as well as other safety regulations are to be complied with without exception. They form a part of the obligations of employers and employees regarding industrial safety. This results in, among other things, the responsibility of the contractor to ensure the stability of the formwork and falsework constructions as well as the structure during all stages of construction. This also includes the basic assembly, dismantling and the transport of the formwork and falsework constructions or their components. The complete construction is to be checked during and after assembly.

2 Dismantling inside corner post LOGO.3 and Modular

Table of content

02.2015
N953.002.0311

4 Dismantling inside corner post LOGO.3 and Modular

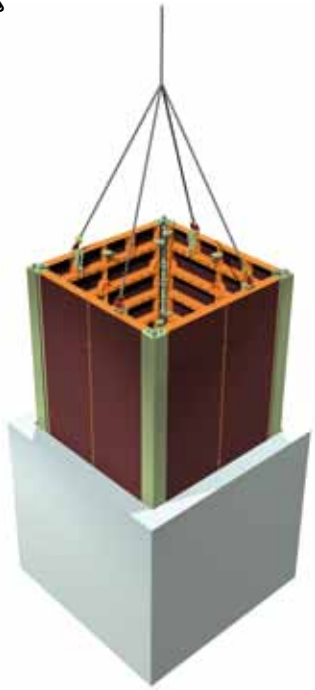


LOGO.3

Art.-N°	Item	Weight [kg]
173.005.0251	LOGO.3 dismantling inside corner post 25x25x90cm	49,5
175.005.0251	LOGO.3 dismantling inside corner post 25x25x135cm	69,0
177.005.0251	LOGO.3 dismantling inside corner post 25x25x240cm	115,0
176.005.0251	LOGO.3 dismantling inside corner post 25x25x270cm	129,0
178.005.0251	LOGO.3 dismantling inside corner post 25x25x305cm	148,0
179.005.0251	LOGO.3 dismantling inside corner post 25x25x340cm	157,0

Modular

Art.-N°	Item	Weight [kg]
101.005.0251	Modular dismantling inside corner post 25x25x75cm	39,0
103.005.0251	Modular dismantling inside corner post 25x25x125cm with double tie rod opening	58,0
104.005.0251	Modular dismantling inside corner post 25x25x150cm with double tie rod opening	67,0



Using the LOGO.3 and Modular dismantling inside corner post, the wall elements in shaft formwork can be taken far enough away from the concrete that complete formwork dismantling and relocation of the core inner formwork is possible without disassembly down to individual elements. Moving the formwork in during dismantling and pressing the formwork apart when positioning is carried out by turning a nut on the top edge of the dismantling inside corner post.

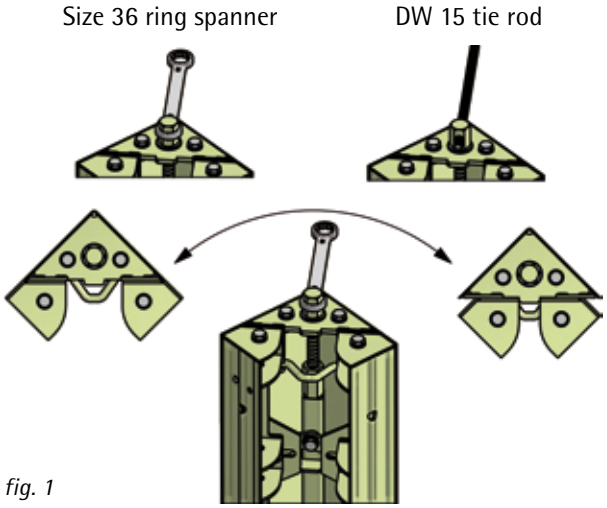


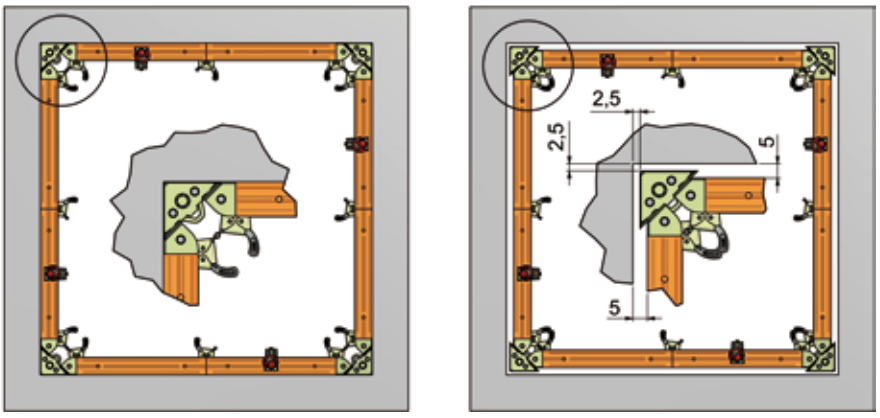
fig. 1

Note!

You must ensure that all four dismantling inside corner posts are pulled together or pushed apart alternatingly in several stages in order to avoid stresses in the formwork assembly. The adjustment process must always be repeated on the diagonally-opposing corner.

Turn a size 36 ring spanner or a DW 15 tie rod in the appropriate direction (see fig. 1).

Shaft example



mounted dismantled

fig. 2

In (fig. 2), a mounted internal shaft formwork unit is shown. The right-hand picture shows the dismantled condition. In this case, the dismantling inside corner posts are 2.5 cm away from the concrete and the formwork elements 5 cm.

6 Dismantling inside corner post LOGO.3 and Modular

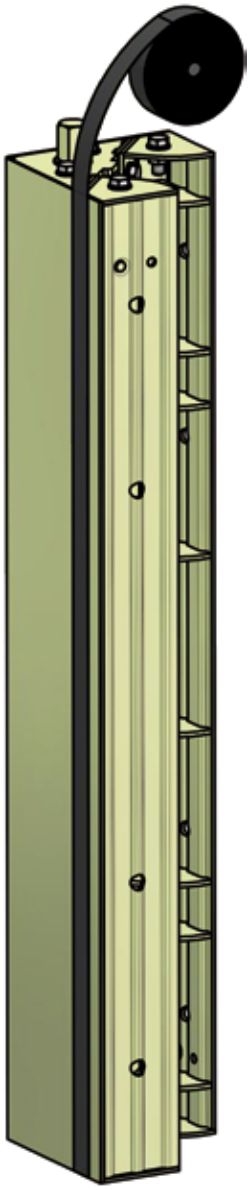


fig. 3

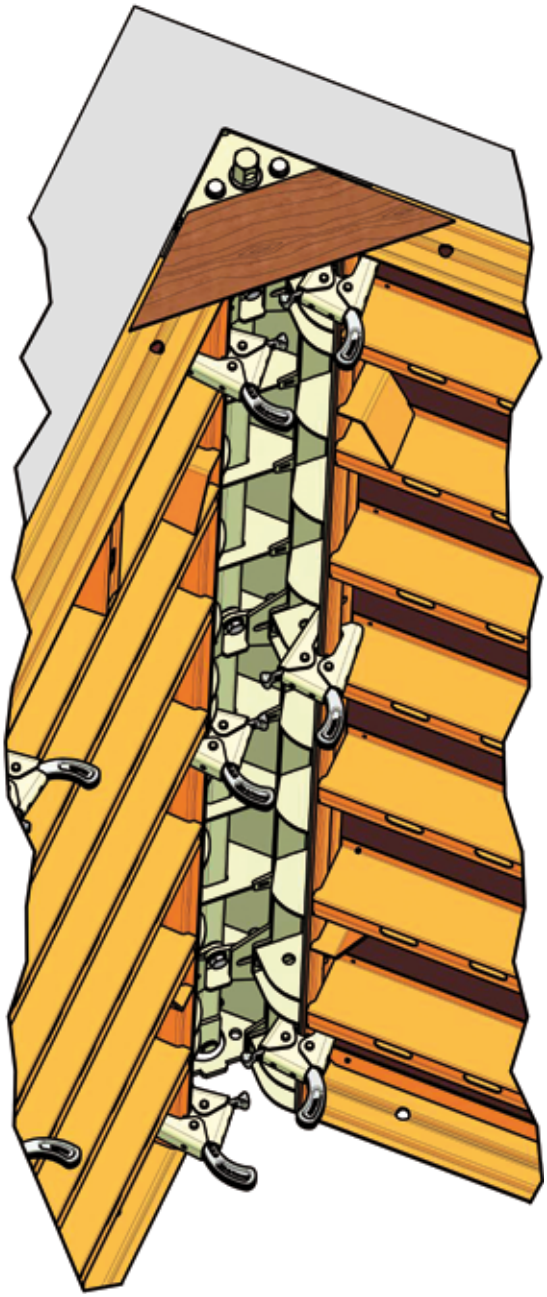


fig. 4

General user information for cleaning:

If the following user information is observed, the overall work required for cleaning is considerably reduced and the formwork service life is increased.

- Spray dismantling inside corner posts with release agent on all sides before using for the first time.
- Each time after concreting, wash larger lumps of concrete off the rear of the dismantling inside corner post with water.
- After each dismantling process, clean the formwork facing and front faces and remove concrete residue. Then spray with a thin layer of release agent.

Note!

Cleaning may only be performed using tools, such as brushes and special scrapers, which do not damage the formwork facing and other system components.
The use of sandblasters, angle grinders, wire brushes and other strongly abrasive or sharp tools results in damage.

Special information about the dismantling inside corner post:

The dismantling inside corner post is a construction device with mechanically moving components whose functionality can be impaired by coarse soiling.

To avoid this, we recommend taping over the dismantling inside corner post formwork shell butt joints (fig. 3) and completely covering the formwork in the area around the head plate. (fig. 4)

To assemble in height two dismantling inside corner posts, the latter are placed on top of each other and connected. To do this, the following assembly steps have to be carried out.

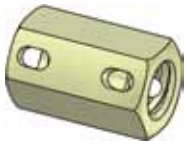
1. To connect the two dismantling inside corner posts together, the bottom corner screws on the head plate have to be removed. (see fig. 5)

Hexagon screw M16x40 DIN933 8.8/ galvanized
Art.-N°: 900.933.0302

Washer B17 DIN125 galvanized
Art.-N°: 900.125.0008

Hexagon nut M16 DIN934/8 galvanized
Art.-N°: 900.934.0016

2. At the bottom dismantling inside corner post:
   - Remove the tube locking pin.
   - Relocate the lock nut to the bottom DW screw hole position.
   - Refit the tube locking pin in the bottom hole. (see fig. 6)



Lock nut DW 20 x 60 size 36
Art.-N°: 680.000.1807

Tube locking pin 8 x 42 chromatised
Art.-N°: 930.007.0038

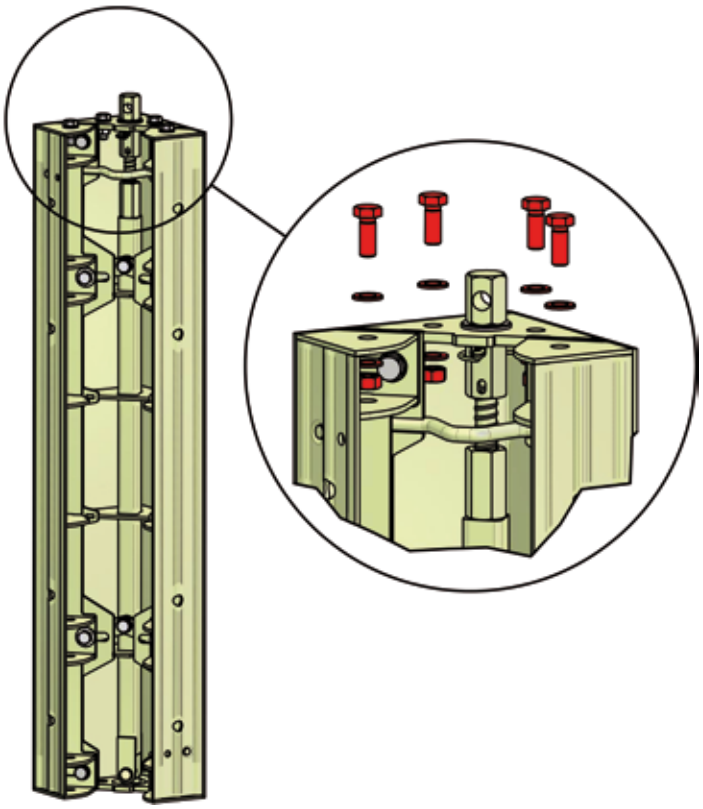


fig. 5

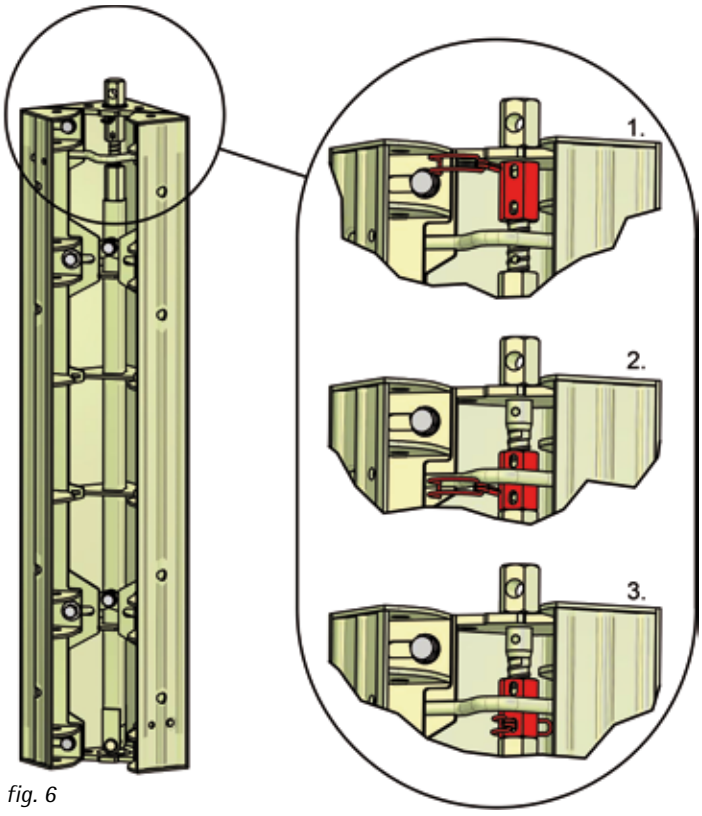


fig. 6

8 Dismantling inside corner post LOGO.3 and Modular

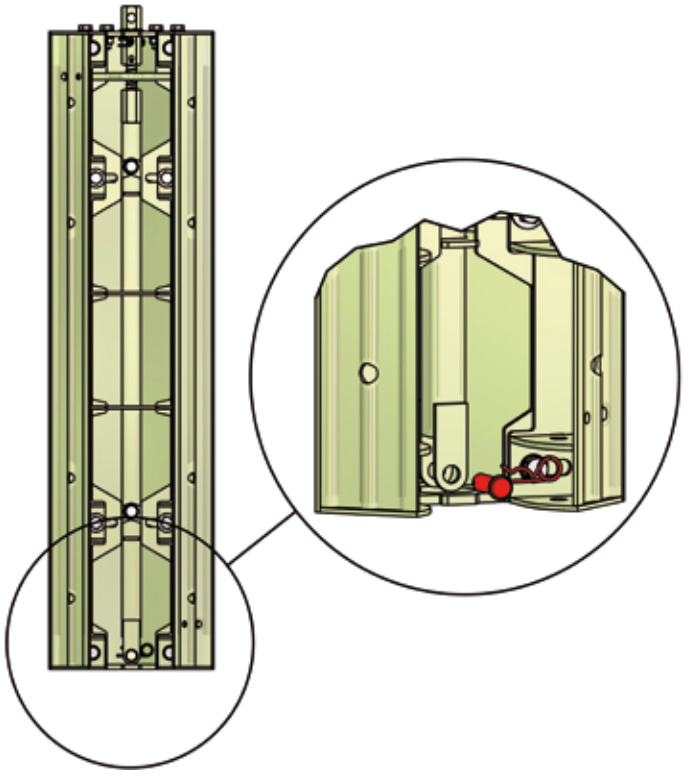


fig. 7

3. Remove the bolt with the split pin on the top dismantling inside corner post. (see fig. 7)

Bolt with cotter-pin hole chromatised
Art.Nr.: 680.000.1772

Retaining pin type 4 chromatised
Art.Nr.: 911.024.0007

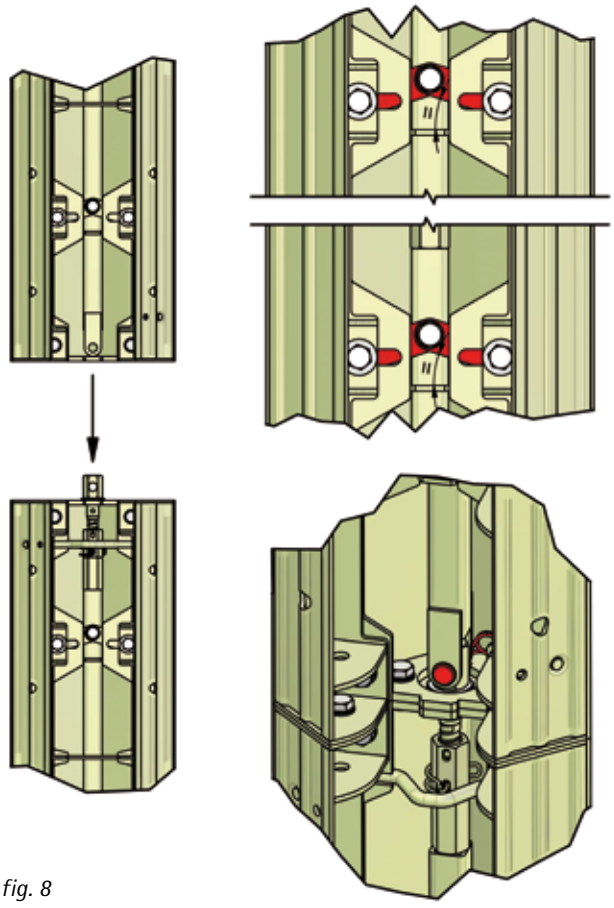


fig. 8

4. The top dismantling inside corner post can now be placed on the bottom one.
   (The important thing here is that the bracket holes on the lever rod are in alignment with the DW screw hole, and also that the lever bar joints are at the same angle).
   Now refit the bolts and secure with the retaining pin. The last stage is to bolt the top dismantling inside corner post to the bottom one using the screws which were removed in step 1. (see fig. 8)

If Modular elements are to be assembled on top of each other, the top element has to be turned by 180° so that the tie rod can be fitted.
(see Modular technical information on the the subject of „tie positions")

Detail of Modular formwork elements (element joint)

Since the dismantling inside corner posts cannot be rotated like the Modular elements the tie rod openings are arranaged twice. This ensures that the quarter tie rod openings are opposite each other.
(fig. 9 left)

Note!

Double tie rod openings are only technically not possible on the 75 cm Modular dismantling inside corner post which means that the 75 cm Modular dismantling inside corner posts cannot be fitted on top of each other or shall be used in bottom position. (fig. 9 right)

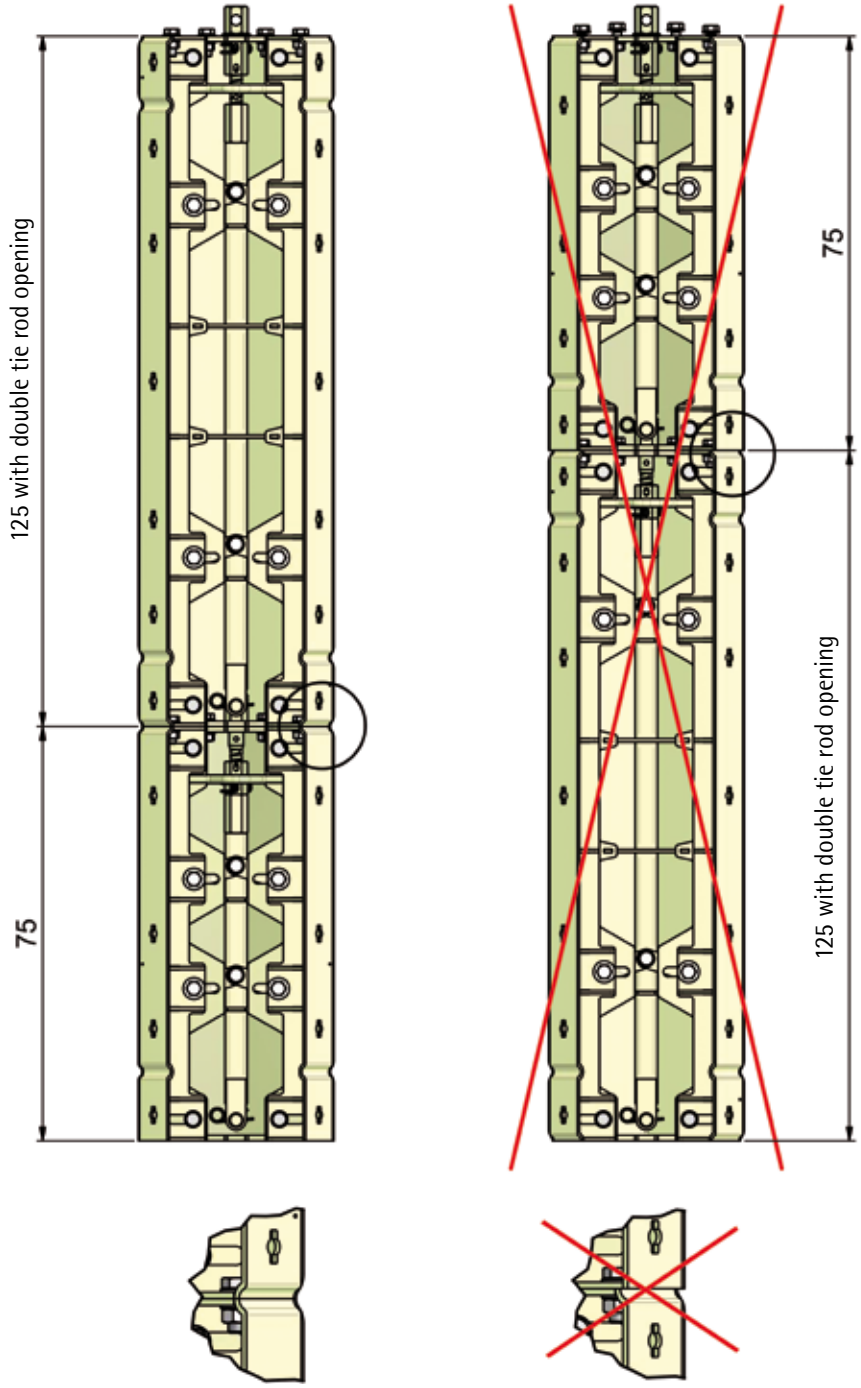


fig. 9

Connection corner to filler to element (LOGO.3)

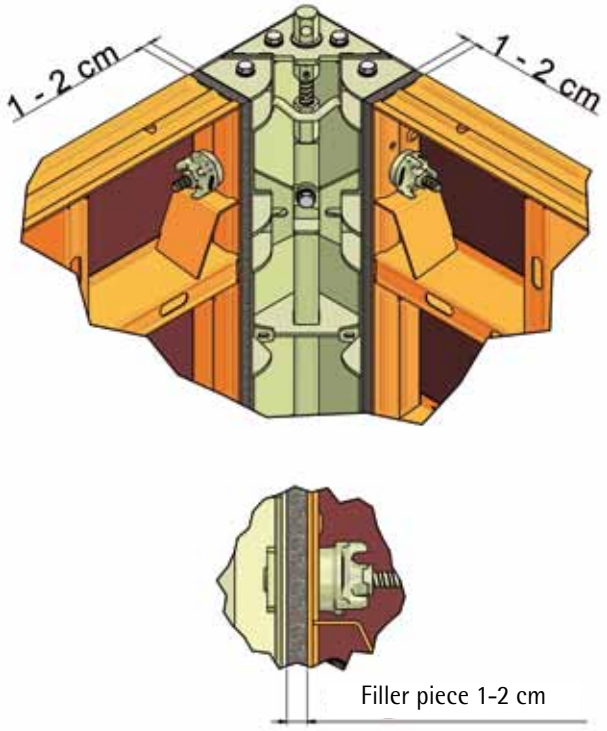


fig. 10

Plastic filler pieces of up to 2 cm in width can only be fitted between the dismantling inside corner post and the element using the short LOGO locking screw 15 x 100 cpl. The longer version of the locking screw cannot be fitted here.
(see fig. 10)

LOGO locking screw DW15x100 cpl.
Art.-N°: 187.500.0106

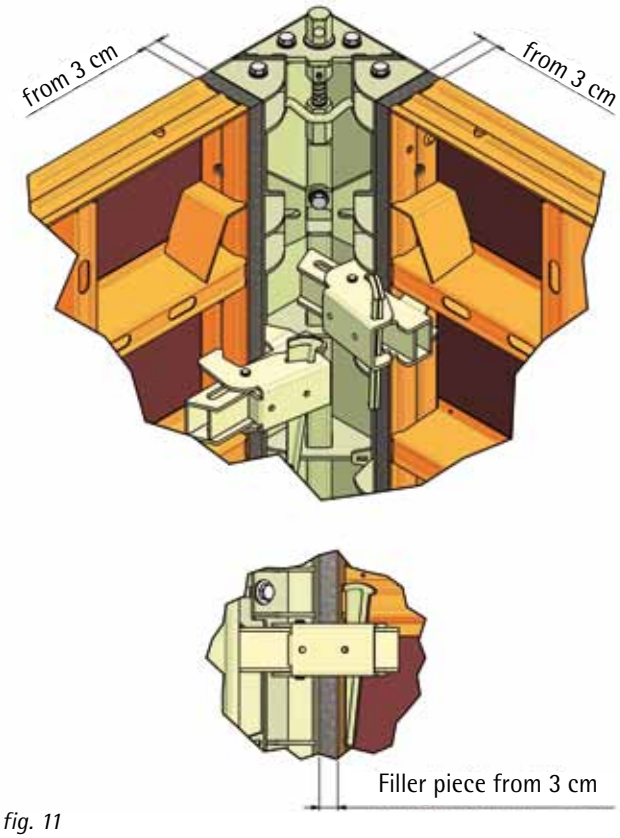
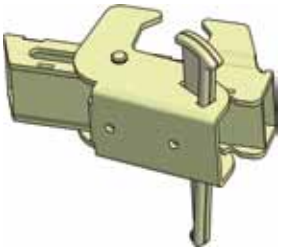


fig. 11

Plastic filler pieces from 3 cm in width can be fitted between the dismantling inside corner post and the element using the adjustable 0 - 10 cm LOGO multi clamp. The important thing in this case is to ensure that the brackets do not contact each other or the dismantling inside corner post when pushing the corners in.
(see fig. 11)



LOGO multi clamp 0-10 cm
Art.-N°: 187.500.0004

Plastic filler pieces can only be used with the Modular dismantling inside corner posts from 2 cm in width (see fig. 12), since the 5-pin key bolt is too long if the 1 cm plastic filler piece is used and will collide with the dismantling inside corner post.
(see fig. 13)

5-pin keybolt
galvanized
Art.-N°: 189.001.0105

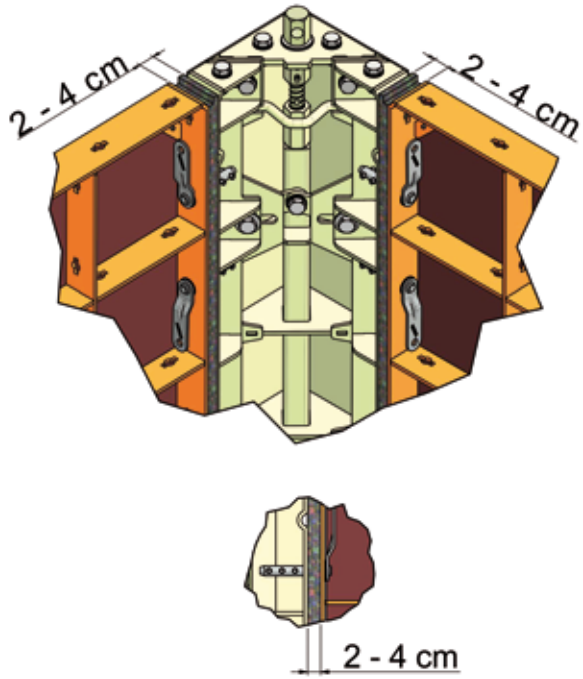


fig. 12

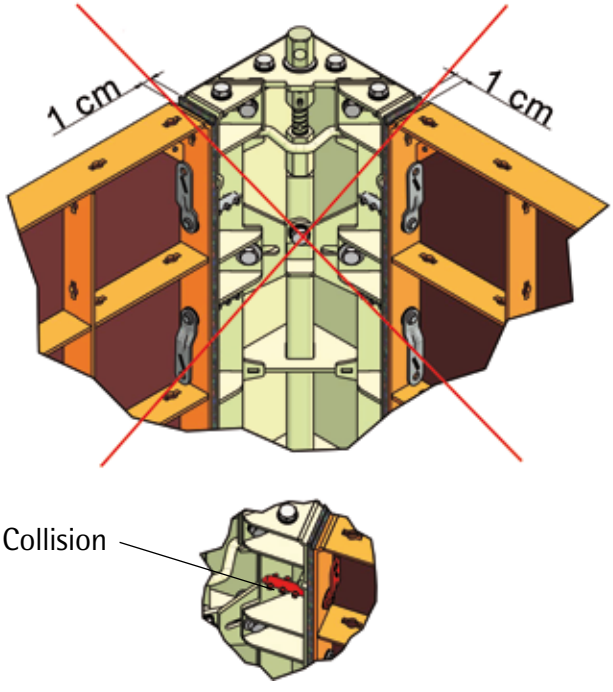


fig. 13

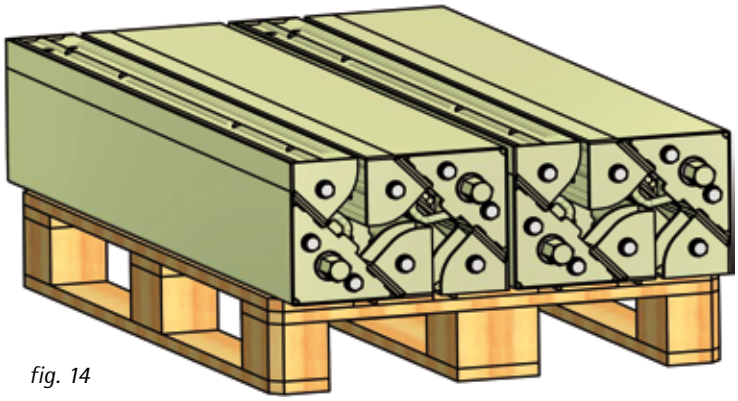


fig. 14

The dismantling inside corner posts can be stored as shown in fig. 14 to save a lot of space.

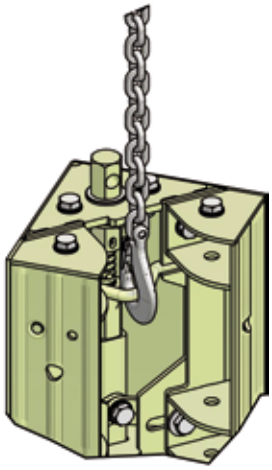


fig. 15

The dismantling inside corner posts are suspended by the crane yoke for individual transport. (fig. 15)

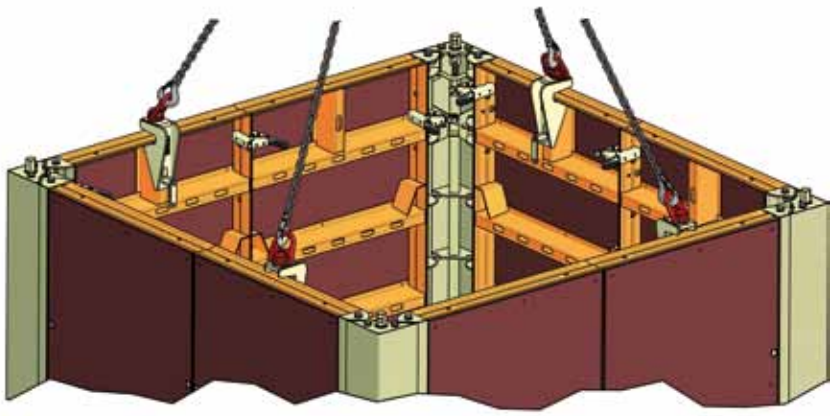


fig. 16

The dismantling inside corner post crane yokes may not be used to relocate shafts since they are not designed for loads greater than their own deadweight. For this purpose, crane lifting equipment for the Modular or LOGO systems must be used. (see fig. 16)
It is important to ensure that the crane lifting equipment is attached symmetrically so that the centre of gravity is kept central. It may be necessary to use a cross-beam for larger shaft dimensions.

Notes

PASCHAL-Werk G. Maier GmbH
Kreuzbühlstraße 5 · 77790 Steinach · Germany
Phone: +49 (0)78 32/71-0 · Fax: +49 (0)78 32/71-209
service@paschal.de · www.paschalinternational.com