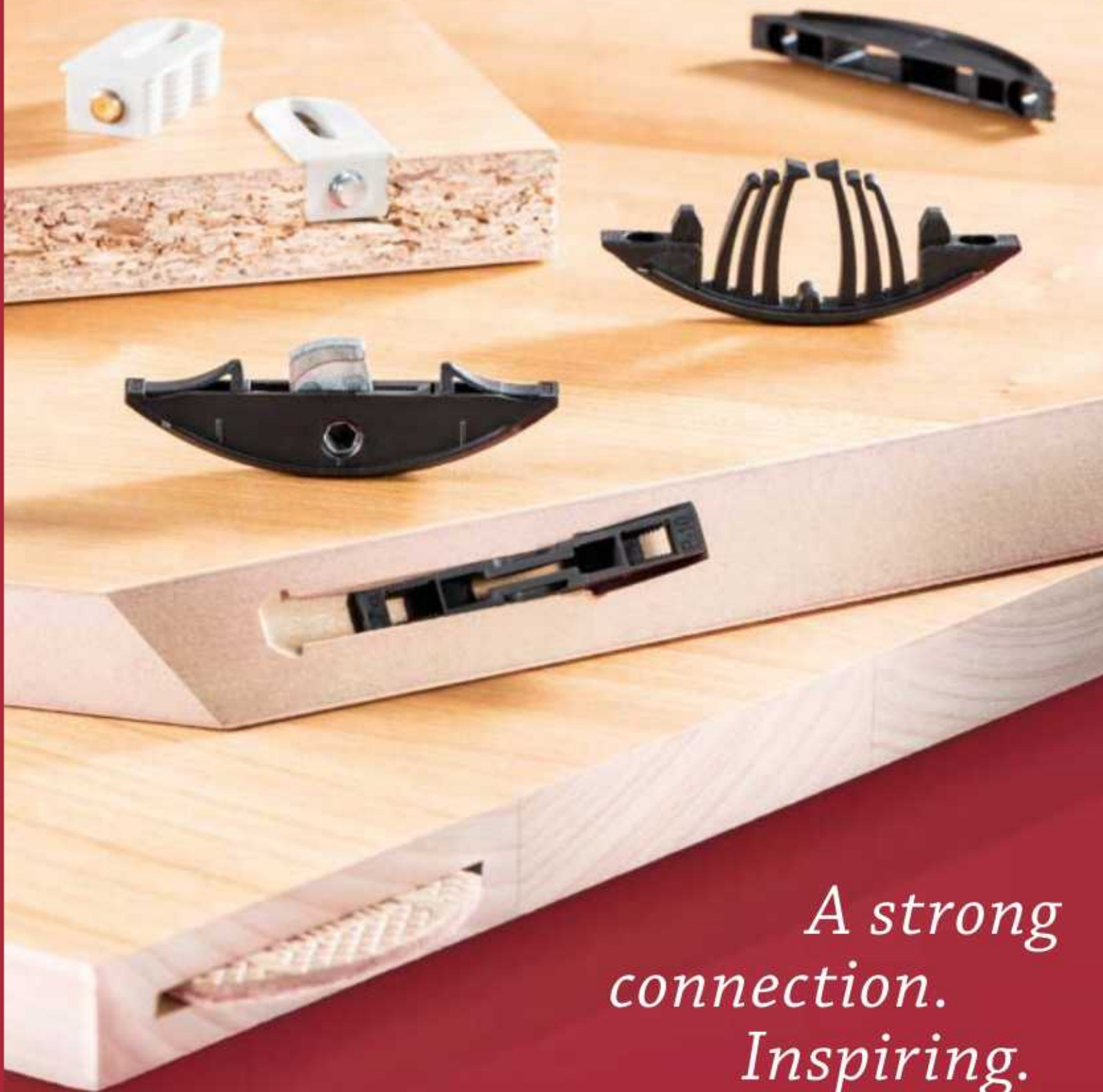
Lamello

# Catalogue

2023/2024

*english*



*A strong connection. Inspiring.*

*« Lamello's system solutions are synonymous with quality, innovation and excellent functionality, and are used across the globe where they have proven their worth millions of times over! »*

Susanne Affolter, Managing Director and Owner at Lamello AG



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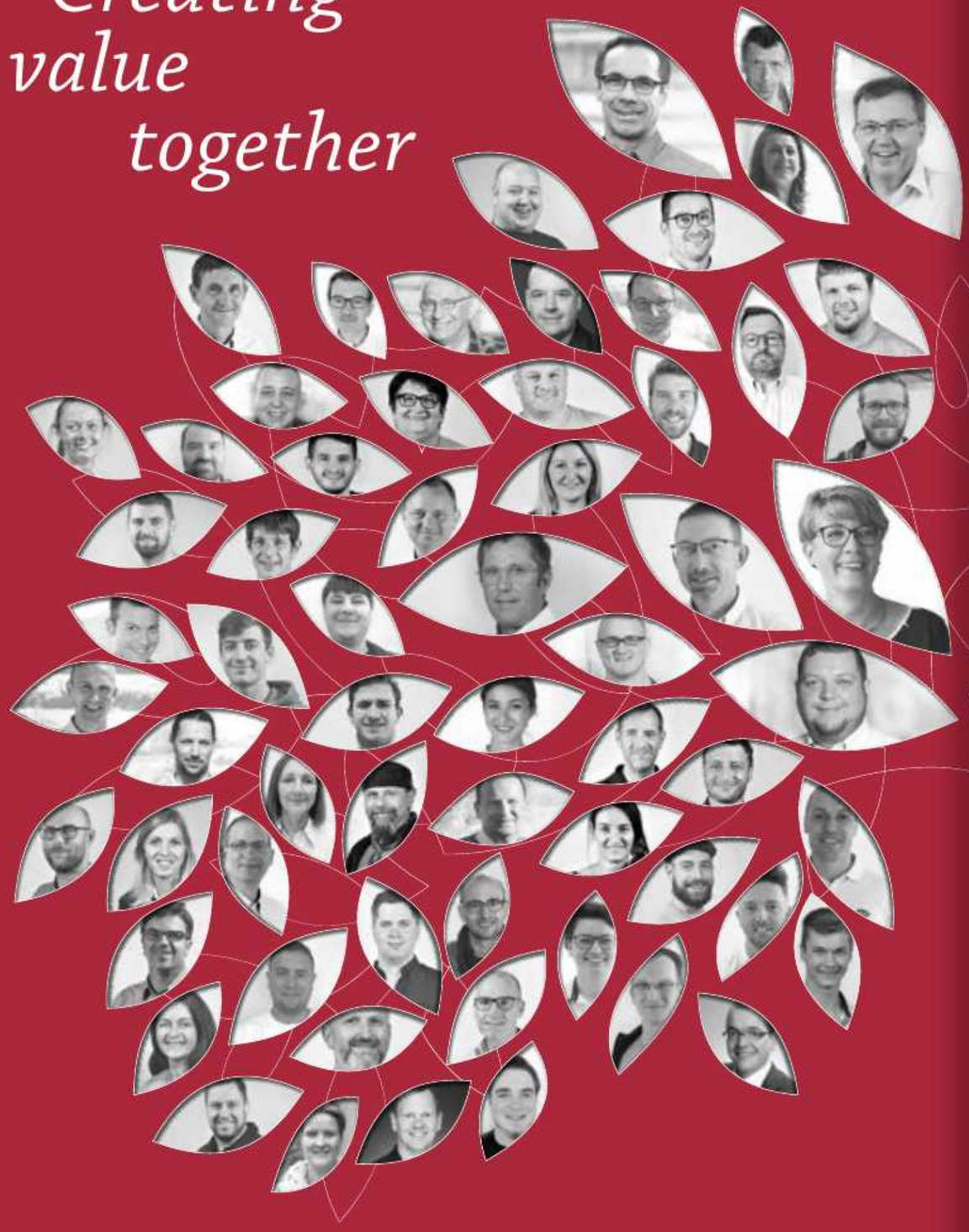
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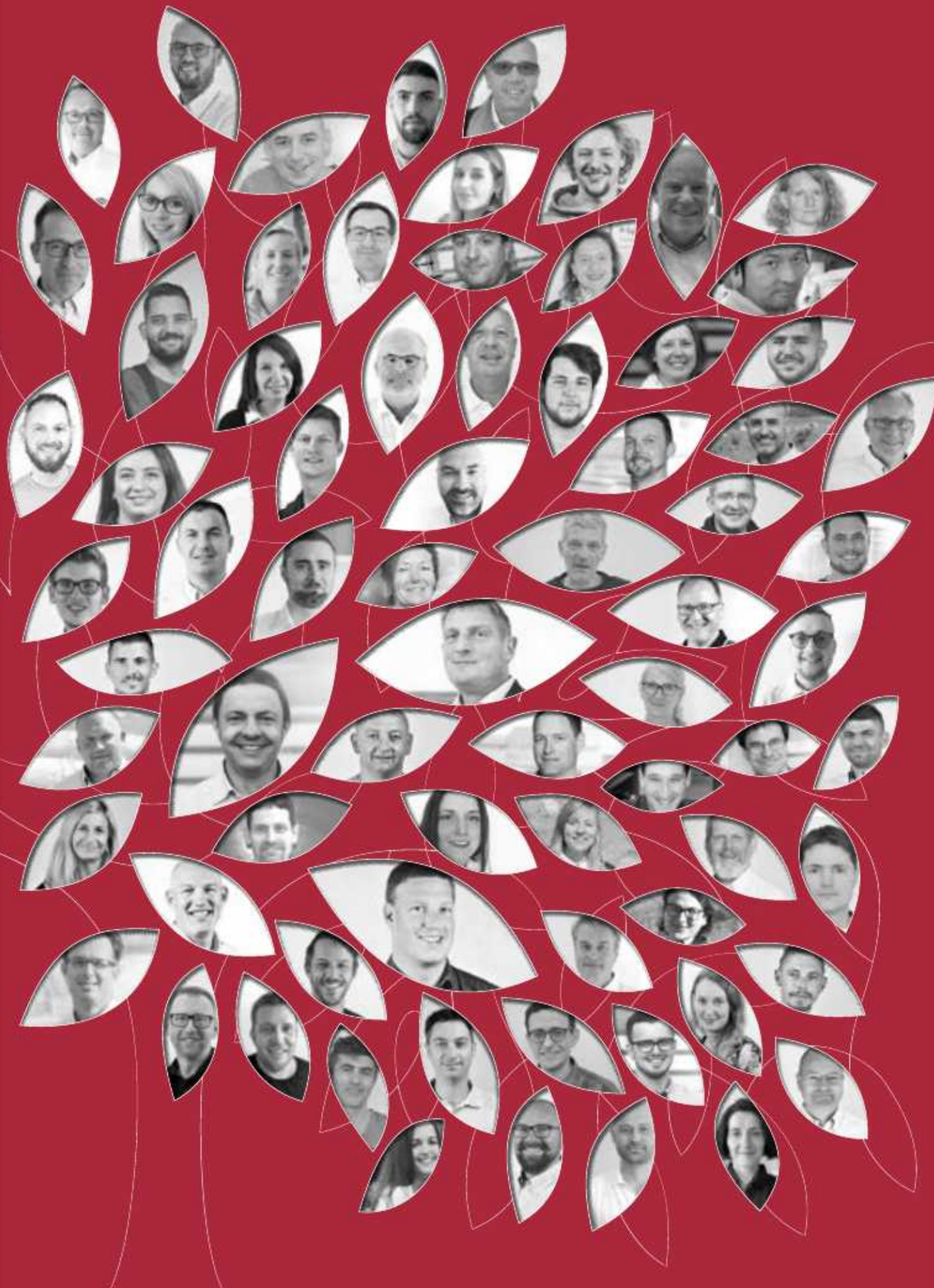



Subject to modifications and amendments

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# *Creating value together*





# *Far-reaching. Close to home.*





## At home right across the globe.

We enjoy supporting you with our international sales network consisting of four subsidaries, distributors in 50 countries and more than 400 sales partners worldwide. As such we are available locally for our customers anywhere and at any time, be it for individual advice, training or services.



Headquarter:
- Switzerland

Subsidaries:
- Belgium/France/Netherlands
- Germany
- Italy
- Austria

Markets with Lamello sales representatives:
- England
- Eastern Europe
- Spain
- Southeast Europe

# We are here for you!

## Support in person

Do you have any questions concerning our products or a certain application? Would you like to learn more about the process benefits for your business? Our qualified employees and sales partners will be happy to help you quickly and competently, whether by telephone, online or during a personal support on site.

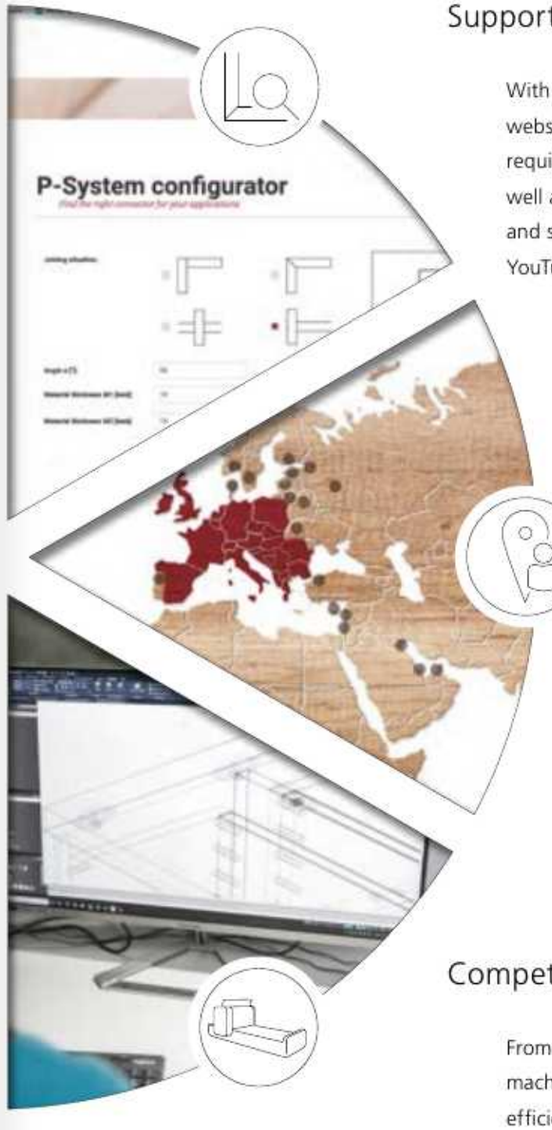
## Latest news

Stay up-to-date and sign up for our Lamello News and e-newsletter. Become part of the Lamello community on social media and be inspired, or visit our stand at one of the numerous trade fairs. We are always happy to hear from you.

## Our services

Quality is one of the cornerstones of our business, and so our products are designed to last. If a repair is necessary, we can offer you uncomplicated service through our certified Lamello service partners and a spare parts warranty of at least 10 years.




## Support in your planning

With the connector search and the P-System configurator on our website, you can quickly find the right connector for your design and requirements. With CAD data for our connectors, tips and tricks, as well as videos about the wide range of applications, we can guide and support you in your planning on our website and on the Lamello YouTube channel.

## Qualified sales partners

Our professional and committed sales partners provide you with qualified advice, always keeping you informed about new products. This way, you can see the benefits of our products first hand.

## Competent planning and machining partners

From planning and design to the right tool to machine with the CNC machine: more than 40 industry-leading partner companies support the efficient use and integration of our products into your production.

# *Looking back. Thinking ahead.*

Every milestone starts with an idea. However, revolutionary ideas do not just come about easily. It is only through many years of practical knowledge and intensive development working together with our customers that we have been able to constantly come up with new solutions, and in so doing decisively shape the market for wood joining technology and wood processing to this day.

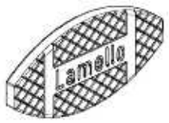
## 1944

Joinery founded
by Hermann Steiner
in Liestal



## 1955

Lamello System
invented by
Hermann Steiner




## 1958

Invention:
First stationary Lamello
biscuit joiner LO1

## 1968

Invention:
First hand-operated
Lamello biscuit joiner



## 1969

Founding of Lamello AG
under the leadership
of company founder
Hermann Steiner




## 1970

Invention:
Wood repair system



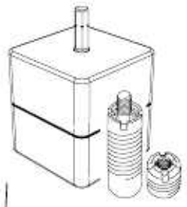
## 1981

Invention:
Tanga 150,
window cutter



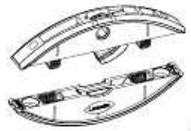
## 2001

Invention:
Invis
Interzum award



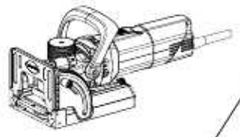
## 2009

Invention:
Clamex P
Interzum award



## 2010

Invention:
Zeta, power tool for
the P-System



## 2013

Invention:
Tenso P-14
Interzum award



## 2015

Invention:
Divario P-18
Interzum award



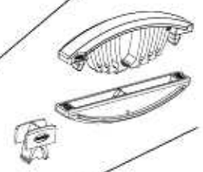
## 2017

Invention:
Cabineo CNC connector



## 2019

Invention:
Tenso P-10
Interzum Award



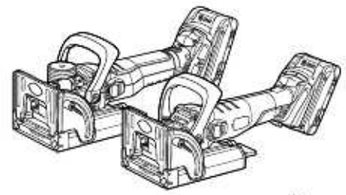
## 2020

Invention:
Clamex P-14/10 Flexus
Interzum award



## 2022

Introduction:
Zeta P2 cordless and
Classic X cordless



# *In the centre: the customer*

Lamello AG products are distributed and utilised globally. Cabinet makers, joiners, furniture manufacturers, carpenters, shop-fitters, furniture designers, kitchen manufacturers and many more have been using and relying on the innovative system solutions from Bubendorf for years. Some of these are longstanding business partners, who will be sharing some of their experiences with us. We appreciate the trust that we are met with and thank all our customers for the good teamwork.




**Nils Ingwersen**

Process Planning Manager

Carpentry Mario Beck, Hamburg, Germany

*«Our customers are frequently enthusiastic about the rapid assembly when using the P-System.»*

**Roger Schneider**

Site Manager, Tschudin AG, Münchenstein, Switzerland

*«The Tenso has the advantage that is does not require any access holes, because it is self-clamping. This makes it the ideal connector for glued furniture without the use of additional screw clamps.»*



**Hannes Kofler**

Owner and Managing Director, Joinery workshop Kofler, St. Felix, Italy

*«We previously lacked the right fitting for this application. The Clamex P-14/10 Flexus solved this problem. The connector came exactly at the right time, and has filled this gap very much to our satisfaction.»*

**Jeffrey De Smet**

Self-employed carpenter, Artisanal interior furniture maker, Belgium

*«One day a customer placed an order for me to build a staircase, and I was looking for an easy-to-use system that saved me time and enabled me to work independently. With Tenso, all you have to do is to glue it, put the parts together and you're ready to go.»*

**Andreas Kuhlmann**

Managing Director, Adolf Kuhlmann furnishing workshops, Schwerin, Germany

*«Lamello is an asset to us because it allows us to expand our possibilities.»*

**John Hampton**

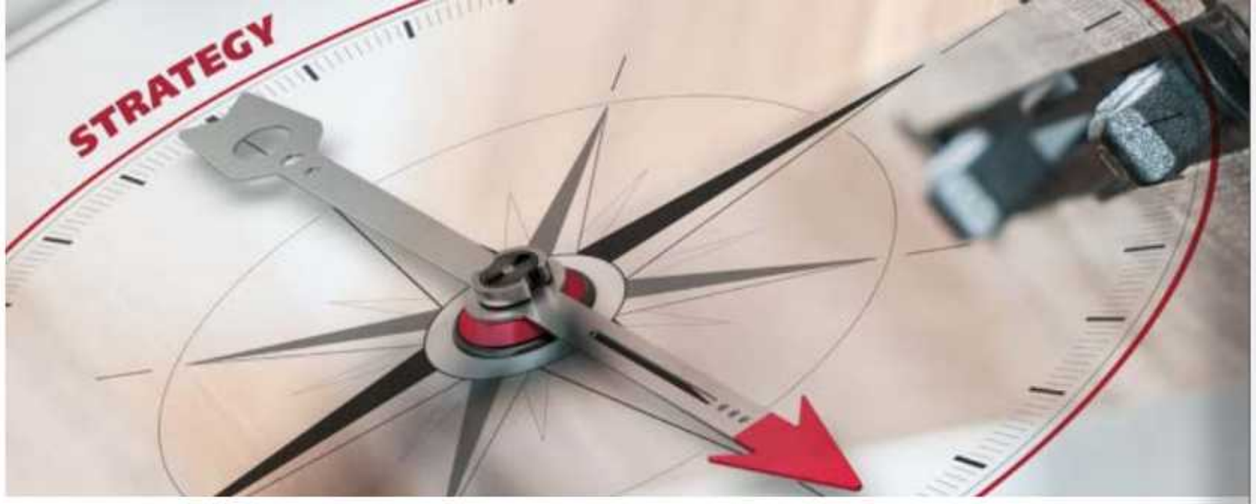
Production Manager, Artichoke, Somerset, England

*«Artichoke's pursuit of enhanced quality and improved efficiency has led it to the door of Swiss fixings specialist, Lamello.»*

**Günther Schweiger**

Speedmaster Managing Director, Eberstalzell, Austria

*«For us, the P System is the most innovative connector solution to have emerged in recent years.»*




# *Joining technology with 3 systems*



## P-System

The **P-System** from Lamello is an innovative and award-winning joining method. Clamex, Tenso and Divario connecting fittings make an entirely new level of flexibility, speed and simplicity possible throughout the design, manufacturing, transport and installation process.

The connector's installation and anchorage system is based on the P-System profile groove. The P-System groove for the connector can be cut either using modern CNC technology or very simply by hand using the Zeta P2 power tool from Lamello.



## Lamello System

The **Lamello System** is an exceptionally efficient, simple and precise joining system for various materials. It is based on a 4 mm groove and offers an enormous variety of joining solutions. The original wood biscuit has been supplemented by the self-clamping element, the clamping element and transparent plastic element for solid surface materials. The same applies to the Simplex and Clamex S-18 detachable connectors. These can be easily assembled and disassembled. All connectors can be machined with the biscuit joiners Classic X, Top 21 and Zeta P2.



## Drilling System

The **Cabineo** is a one-piece furniture connector and is installed into a drilled or routed shape. No edge drilling is necessary – the machining happens solely in the surface. Due to this, Cabineo can be used with all kinds of CNC machines, including very simple 3-axis and nesting machines.

**Invis Mx2** is the unique connection that satisfies the highest demands for aesthetics, stability and productivity. With no visible openings, Invis Mx2 can be quickly detached and reconnected at any time via its magnet drive.

# *Our strengths*



## Independent & self-determined

In expanding our business, we constantly adapt to changing requirements. This helps us secure the long-term independence of our family company – it is a key element to maintaining our financial autonomy.

## Personal & unconstrained

As a family company, we cultivate a culture of appreciation. We encourage initiative in our employees and support them in taking on new responsibilities. In striving for improvement we always look for fast and pragmatic solutions.



## Inventive & imaginative

We are connected by the desire to succeed and a passion for new tasks and inventions. We strive to remain recognised as a leader in innovation and to overcome technological limits time and again.






## First-class & flawless

Quality is the cornerstone of what we do – from making the wood biscuits to global delivery – it sets our company apart. To this end we are continually furthering our knowledge and optimising our internal working processes.

# Systems

- P-System
- Lamello System
- Drilling System

Overview

## P-System

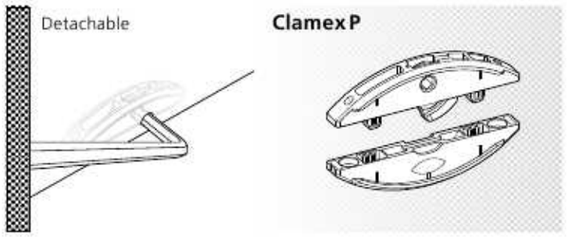
Joining methods | Connector

With P-System groove cutter



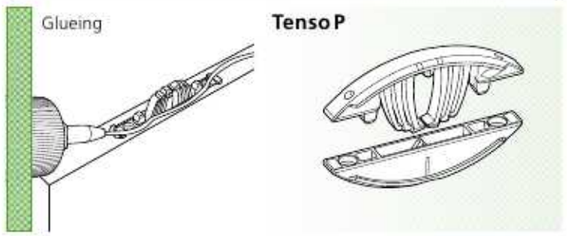
Detachable

**Clamex P**



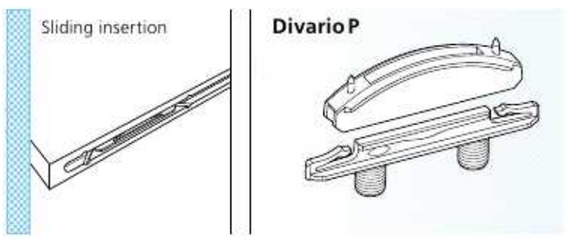
Glueing

**Tenso P**



Sliding insertion

**Divario P**



## Lamello System

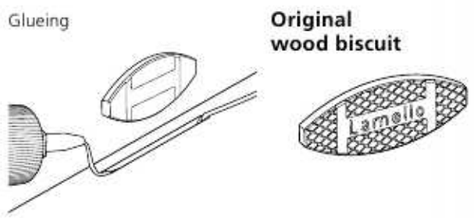
Joining methods | Connector

With 4 mm Lamello System groove cutter



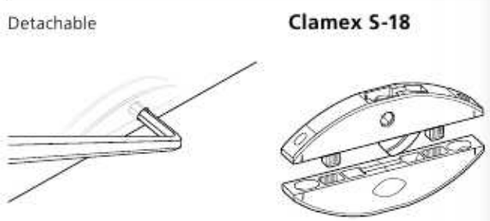
Glueing

**Original wood biscuit**



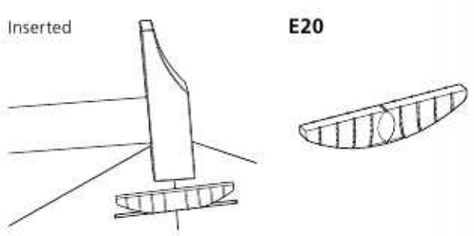

Detachable

**Clamex S-18**

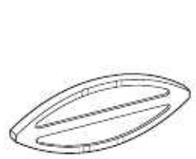


Inserted

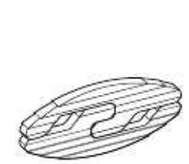
**E20**



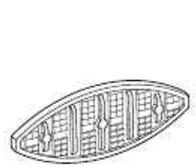
**C20**



**Simplex**



**K20**



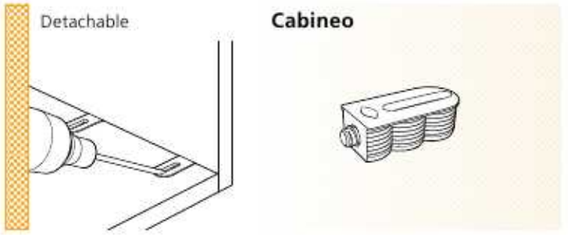
## Drilling System

Joining methods | Connector



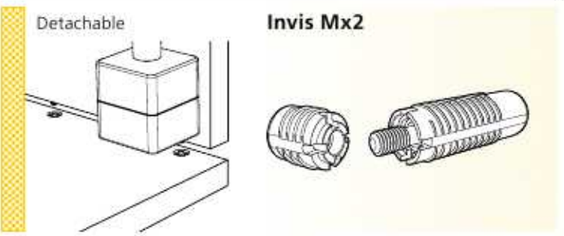
Detachable

**Cabineo**



Detachable

**Invis Mx2**



# P-System

The time-saving joining system
with form-locking anchoring

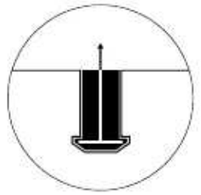


## Features



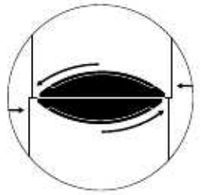
Fast installation

Inserting instead of screwing or glueing



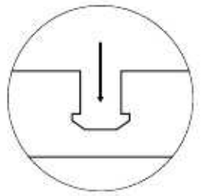
Strong

Form-locking anchorage across large surface areas



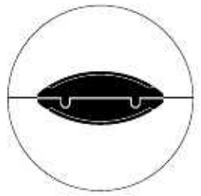
Lateral tolerance

Perfect, flush alignment of both workpieces



Shallow depth

Minimal cutting depth with maximum tensile strength



No twisting

The positioning pins prevent twisting without additional dowels

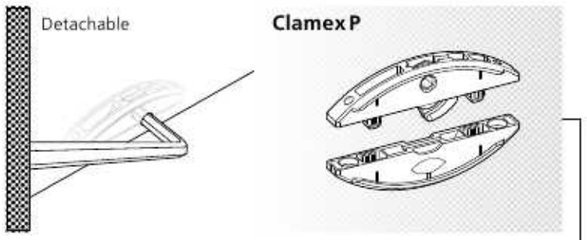
# P-System

Overview

| Joining methods | Connector | Machines | | Sequence | | | |
|---|---|---|---|---|---|---|---|
| | | **Power tool** | **CNC machines** | **1** Cut | **2** Insert the connector | **3** Deliver flat pack | **4** Connect the workpieces |

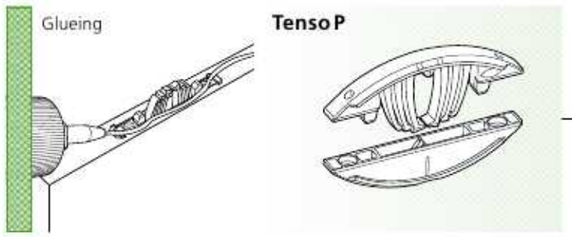
Detachable

**Clamex P**



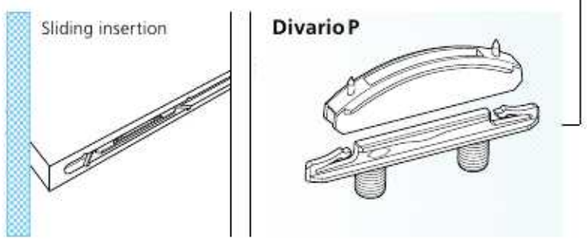
Glueing

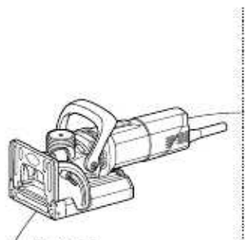
**Tenso P**



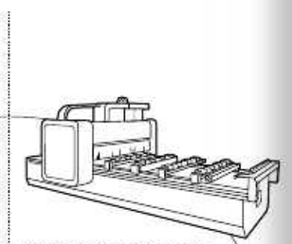
Sliding insertion

**Divario P**

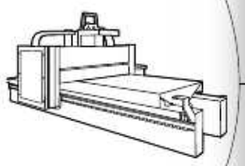




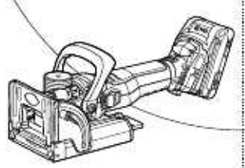
**Zeta P2**



CNC processing centres with **consoles**



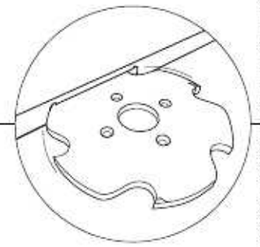
CNC processing centres with **nesting technology**

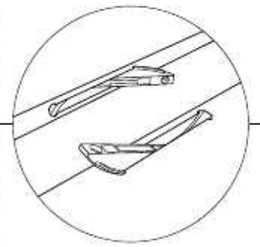


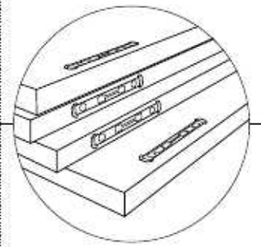
**Zeta P2 cordless**

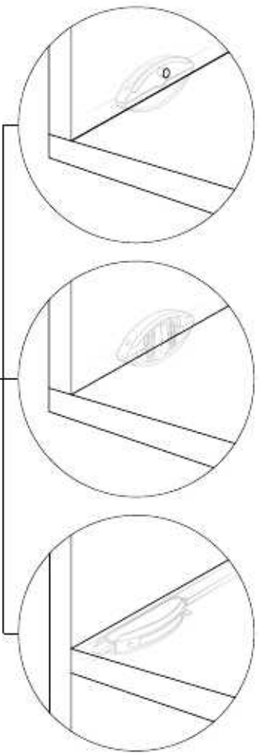


CNC processing centres **vertical**









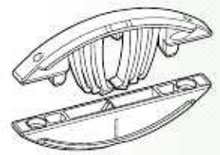
# Connectors

Features overview



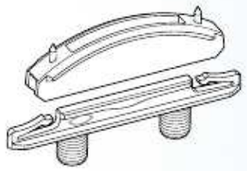
## Clamex P

Detachable furniture connector



## Tenso P

Self-clamping connector for glueing



## Divario P

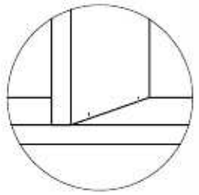
Self-clamping, invisible connector for slide insertion

Features



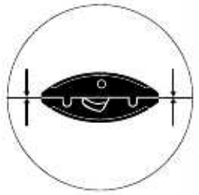
### Detachable

Open the connection time and time again with the rotating lever



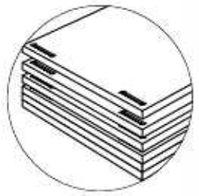
### Aesthetic

The small, hardly visible opening (Ø = 6 mm) serves to close and open the connector



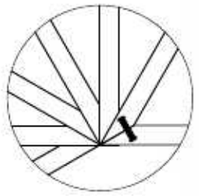
### High clamping force

Clamp and glue workpieces at any angle, ~ 80 kg or 170 lb



### Stackable

Workpieces with pre-installed P-System connectors are stackable for storage and transport



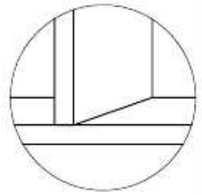
### Versatile

The shallow element depth allows for mitres from 22.5 – 180°, surface, corner and dividing panel connections



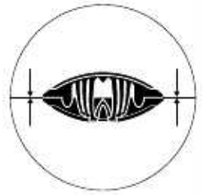
### Glueing

Fixed joints of two workpieces



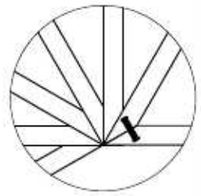
### Invisible

No visible connector



### High clamping force

Allows for perfect alignment and clamps the workpieces ~ 15 kg or 30 lb



### Versatile

Simple glueing of mitre joints



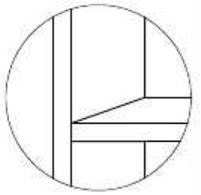
### Lower assembly force

In combination with the pretension clip, only a short force impulse is required to snap it into place



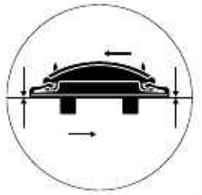
### Sliding insertion

Insertion between two fixed sides or shelves via a guiding groove



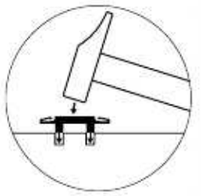
### Invisible

Guiding groove covers the connectors



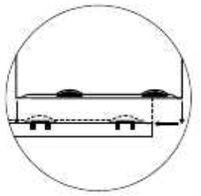
### Clamped joint

No resistance while inserting until shortly before building the clamping force



### Fast installation

Quick installation of the connectors without glue after transport

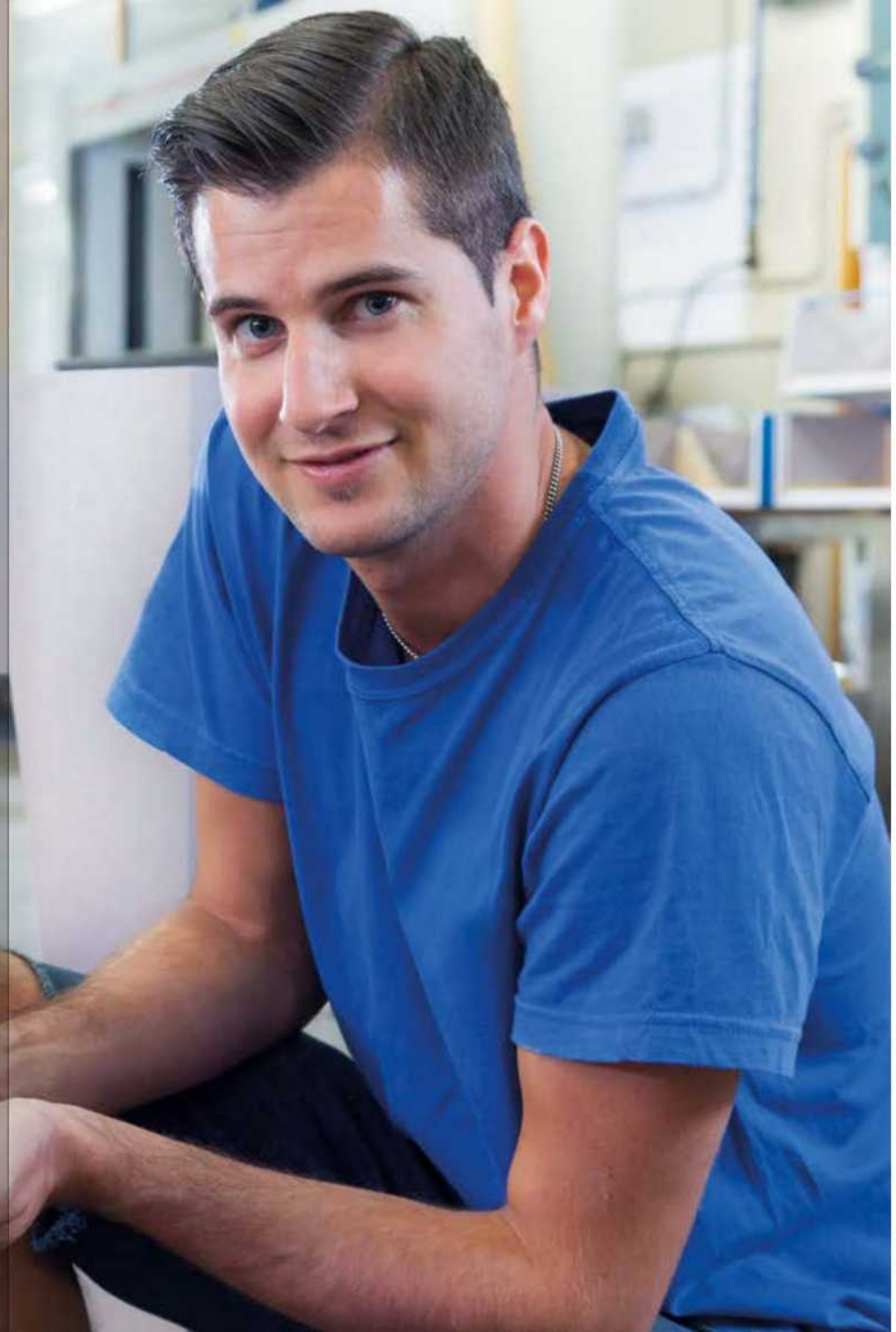


### Assemble by sliding

Partially routed guiding groove for completely invisible furniture joints

*« The Clamex P-14/10 Flexus is a logical addition to the P-System range. We are always inspired anew by how reliably Lamello tailors its products to customer needs, and are happy to be part of the Lamello family. »*

Hannes Kofler, Owner and Managing Director, Joinery workshop Kofler, Italy



# P-System

Applications

## Furniture manufacturing





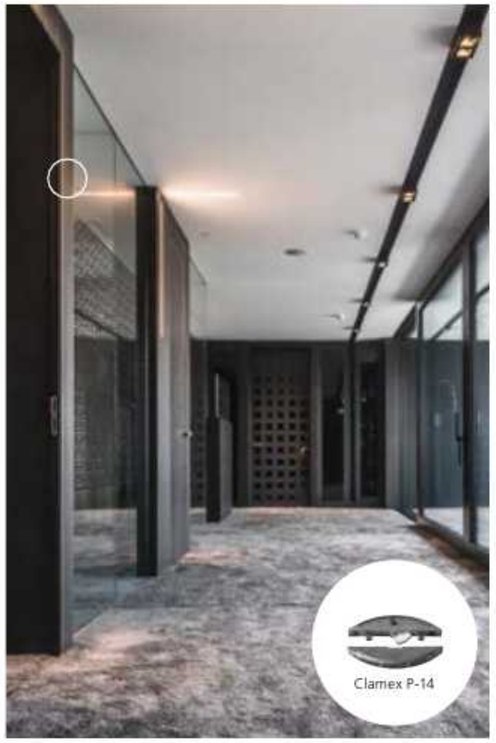







## Interior fitting









# P-System

Applications

## Kitchen manufacturing







Clamex P-14

## Commercial joinery

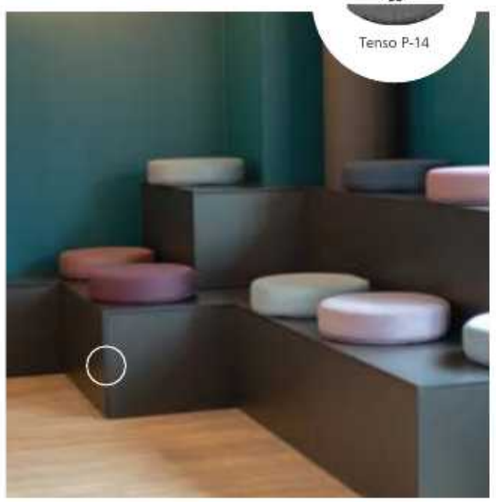


Tenso P-10





Clamex P-14 CNC



Tenso P-14

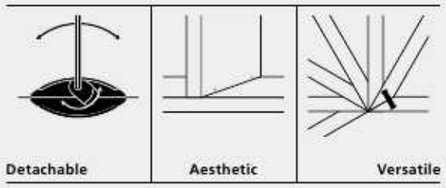
## Shop fitting

# Clamex P-14

Detachable furniture connector



## Features




Clamex P-14 is a detachable connector and is anchored in the form-locking P-System groove within seconds.

Through the minimalist 6 mm access hole, Clamex P-14 is firmly connected and disconnected using a lever.

Clamex P-14 eliminates the need for glue, allows aesthetic joints at all angles and is ideal for permanently joined or detachable mitres. Clamex P-14 is used on mitre joints from 18 mm material thickness and in butt joints from 15 mm.





## Articles



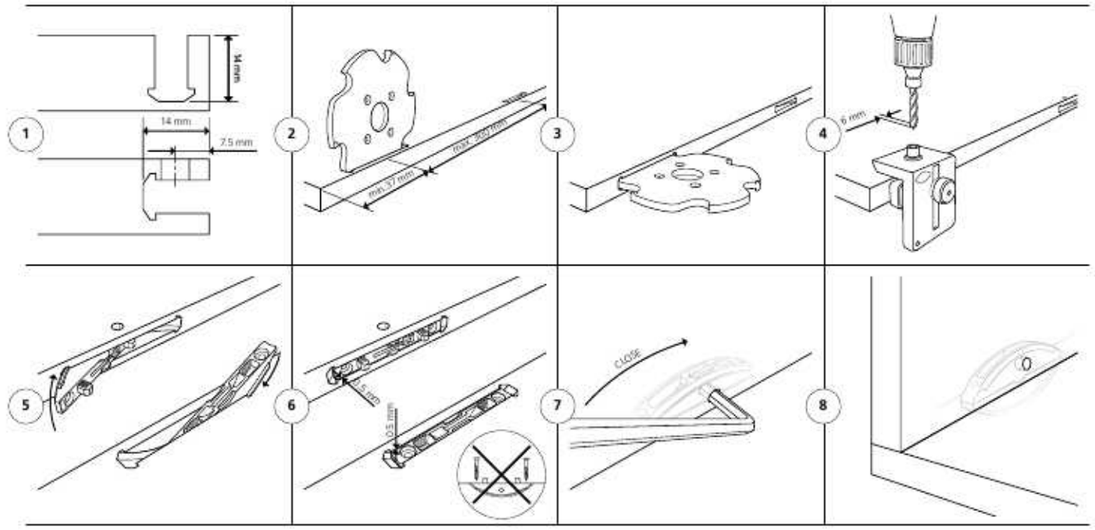
interzum Award

| Clamex P-14 | Art. No. |
|---|---|
| 80 pairs | **145334** |
| 300 pairs | **145346** |
| 1000 pairs | **145356** |
| 2000 pieces element with lever | **145338** |
| 2000 pieces element without lever | **145339** |

**www.lamello**

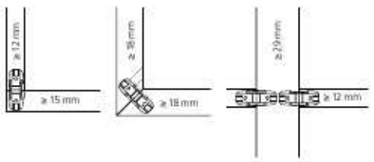
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




| | | | |
|---|---|---|---|
| Size | 64 × 27 × 9.7 mm | | |
| Cutter | Ø 100.4 × 7 × Ø 22 mm | | |
| Material connector | Fiberglass reinforced plastic | | |
| Material of lever | Zinc die cast | | |
| Installation tolerance | Long. ± 1 mm/radial ± 1 mm | | |
| Tensile strength (N) Up to | MDF 900[1] | Particle board 800[1] | Beech 1000[1] |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. | | |

90° and 45° cover caps are available in a variety of colours **PAGE 71** | See **PAGE 66** for technical specifications

[1] See comment on load limits on **PAGE 195**

# Clamex P-14/10 Medius

Detachable connector for centre panels for materials from 16 mm thickness





## Features




Clamex P-14/10 Medius is a detachable connector and is anchored in the form-locking P-System groove within seconds.

Through the minimalist 6 mm access hole, Clamex P-14/10 Medius is firmly connected and disconnected using a lever.

The connector for divisions has two installation depths and is used when two shelves are attached to the same dividing panel at the same height. Due to the reduced installation depth of 10 mm, the minimal thickness for the division is 16 mm.





## Articles

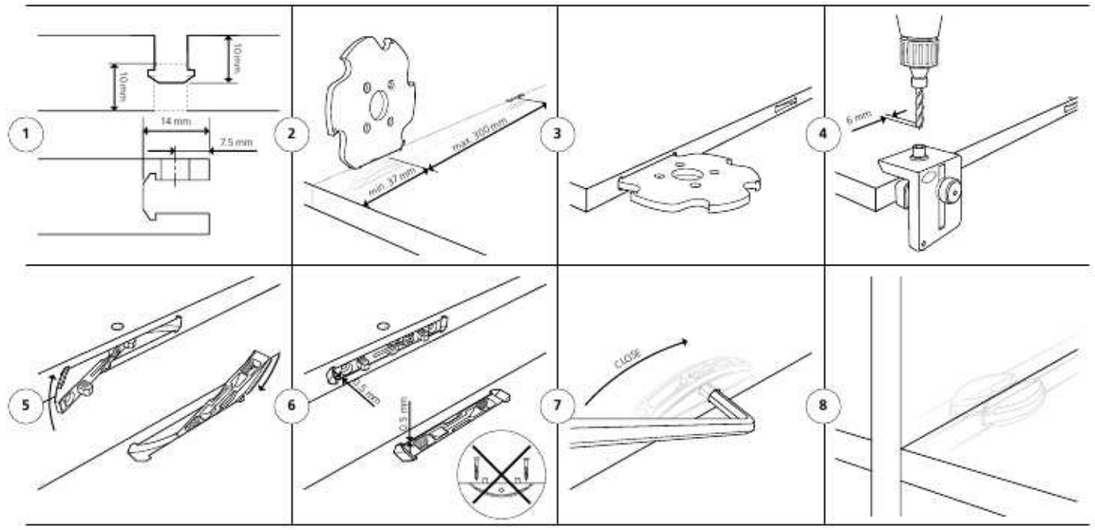


| Clamex P-14/10 Medius | Art. No. |
|---|---|
| 80 pairs | **145370** |
| 300 pairs | **145371** |
| 1000 pairs | **145357** |
| 2000 pieces element with lever | **145338** |
| 2000 pieces element without lever | **145369** |

**www.lamello**

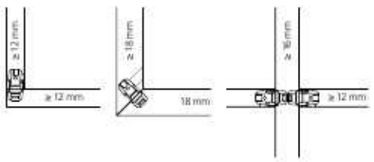
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




| | | | | |
|---|---|---|---|---|
| Size | 64 × 13.5 × 9.7 mm<br>52 × 7.5 × 9.7 mm | | | |
| Cutter | Ø 100.4 × 7 × Ø 22 mm | | | |
| Material connector | Fiberglass reinforced plastic | | | |
| Material of lever | Zinc die cast | | | |
| Installation tolerance | Long. ± 1 mm/radial ± 1 mm | | | |
| Tensile strength (N)<br>Up to | MDF<br>800[1] | Particle board<br>600[1] | Beech<br>900[1] | |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. | | | |

90° and 45° cover caps are available in a variety of colours **PAGE 71** | See **PAGE 66** for technical specifications

[1] See comment on load limits on **PAGE 195**

# Clamex P-10

Detachable connector for materials from 12 mm thickness



## Features



**Detachable** | **Aesthetic** | **Shallow cutting depth**

Clamex P-10 is a detachable connector and is anchored in the form-locking P-System groove within seconds.

Through the minimalist 6 mm access hole, Clamex P-10 is firmly connected and disconnected using a lever.

Clamex P-10 eliminates the need for glue, allows aesthetic joints at all angles and is ideal for permanently joined or detachable mitres.

Clamex P-10 is used on mitre joints from 15 mm material thickness and in butt joints from 12 mm.





## Articles

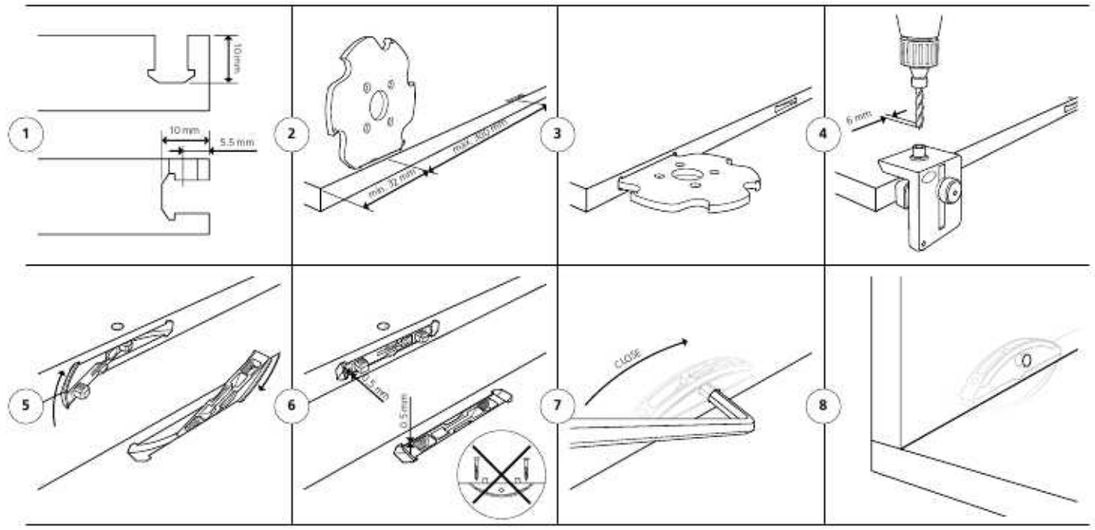


| **Clamex P-10** | Art. No. |
|---|---|
| 80 pairs | **145372** |
| 300 pairs | **145373** |
| 1000 pairs | **145374** |
| 2000 pieces element without lever | **145358** |

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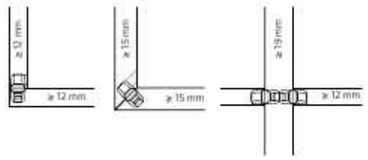
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




| | | | |
|---|---|---|---|
| Size | 52 × 19 × 9.7 mm | | |
| Cutter | Ø 100.4 × 7 × Ø 22 mm | | |
| Material connector | Fiberglass reinforced plastic | | |
| Material of lever | Zinc die cast | | |
| Installation tolerance | Long. ± 0.5 mm/radial ± 0.5 mm | | |
| Tensile strength (N) Up to | MDF 600[1] | Particle board 600[1] | Beech 900[1] |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. | | |

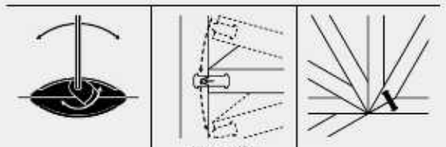
See **PAGE 66** for technical specifications | [1] See comment on load limits on **PAGE 195**

# Clamex P-14/10 Flexus

Detachable furniture connector
with flexible positioning pins



## Features




Clamex P-14/10 Flexus is a detachable connector and is anchored in the form-locking P-System groove within seconds.

Through the minimalist 6 mm access hole, Clamex P-14/10 Flexus is firmly connected and disconnected using a lever.

The flexible positioning pins allow work pieces to be installed in an already assembled cabinet, simplifying the assembly sequence.

Clamex P-14 is used in mitre joints from 18 mm material thickness and in butt joints from 12 mm.





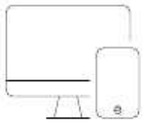
## Articles



interzum Award

| **Clamex P-14/10 Flexus** | Art. No. |
|---|---|
| 80 pairs | **145315** |
| 300 pairs | **145316** |
| 1000 pairs | **145317** |
| 2000 pieces element with lever | **145318** |
| 2000 pieces element without lever | **145369** |

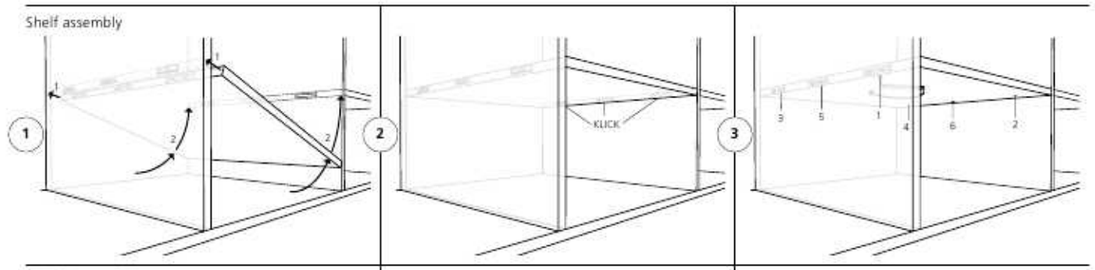
**www.lamello**



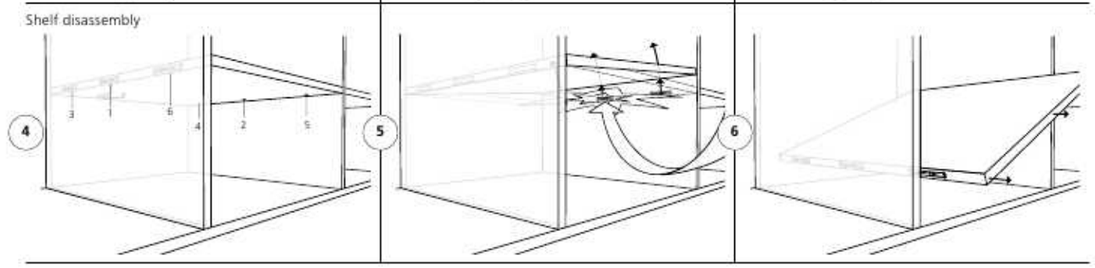
Experience the connector live and receive comprehensive product information!

## Function

Shelf assembly

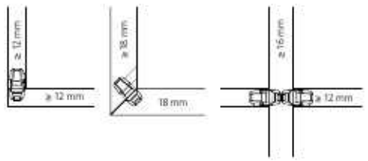



Shelf disassembly




## Technical data

**Joining methods**




| | | | |
|---|---|---|---|
| Size | 64 × 13.5 × 9.7 mm<br>52 × 7.5 × 9.7 mm | | |
| Cutter | Ø 100.4 × 7 × Ø 22 mm | | |
| Material connector | Fiberglass reinforced plastic | | |
| Material of lever | Zinc die cast | | |
| Installation tolerance | Long. ± 0 mm/radial ± 1 mm | | |
| Tensile strength (N)<br>Up to | MDF<br>720[1] | Particle board<br>600[1] | Beech<br>810[1] |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. | | |

See **PAGE 67** for technical specifications | [1] See comment on load limits on **PAGE 195**

# Clamex P-14 CNC

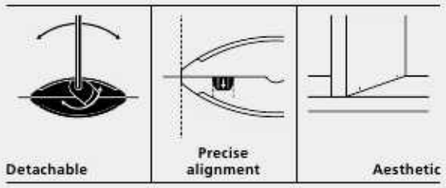
Detachable furniture connector with precise alignment







## Features




Clamex P-14 CNC is a detachable connector and is anchored in the form-locking P-System groove within seconds. Through the minimalist 5 mm access hole, Clamex P-14 is firmly connected and disconnected using a lever.

Clamex P-14 CNC is ideal for production on CNC machines and, unlike Clamex P-14, is automatically aligned during assembly.

Clamex P-14 CNC is used in mitre joints from 18 mm material thickness and in butt joints from 12 mm.





## Articles



| **Clamex P-14 CNC** | Art. No. |
|---|---|
| 2000 pieces element with lever | **145388** |



| **Clamex P-14** | Art. No. |
|---|---|
| 2000 pieces element without lever | **145339** |

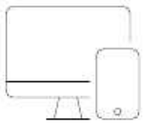


| **Clamex P-10** | Art. No. |
|---|---|
| 2000 pieces element without lever | **145358** |



| **Clamex P-10 Medius** | Art. No. |
|---|---|
| 2000 pieces element without lever | **145369** |

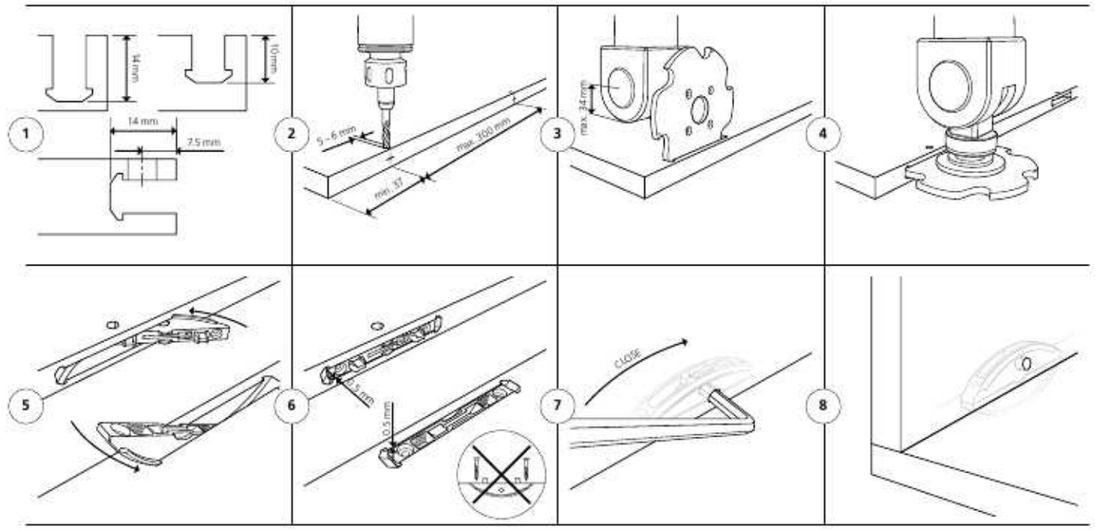
**www.lamello**



Experience the connector live and receive comprehensive product information!

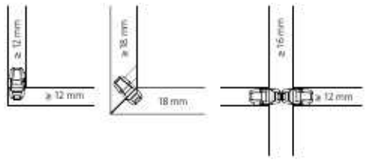


## Function




## Technical data

**Joining methods**




| | |
|---|---|
| Size | 64 × 13.5 × 9.7 mm |
| Cutter | Ø 100.4 × 7 × Ø 22 mm |
| Material connector | Fiberglass reinforced plastic |
| Material of lever | Zinc die cast |
| Installation tolerance | Long. ± 0 mm/radial ± 1 mm |
| Tensile strength (N) | Depending on the connector combination* |
| Material range Up to | Particle board, MDF, plywood, softwood, hardwood etc. |

* See **PAGE 67** for technical specifications

# Advantages of the Clamex P

Detachable furniture connector



**1.** Advantages in production

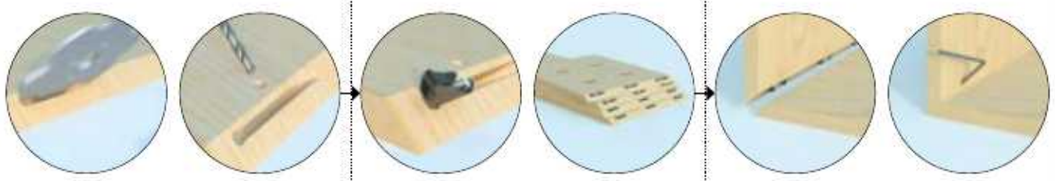
**2.** Advantages in transportation

**3.** Advantages in assembly

- Machining possible with Zeta P2 or CNC machinery
- Only one tool change from P-System cutter to 6 mm drill
- Same groove everywhere: whether corner connection, shelf, centre panel or mitres
- Consistently competent partners: from CAD to CAM and CNC

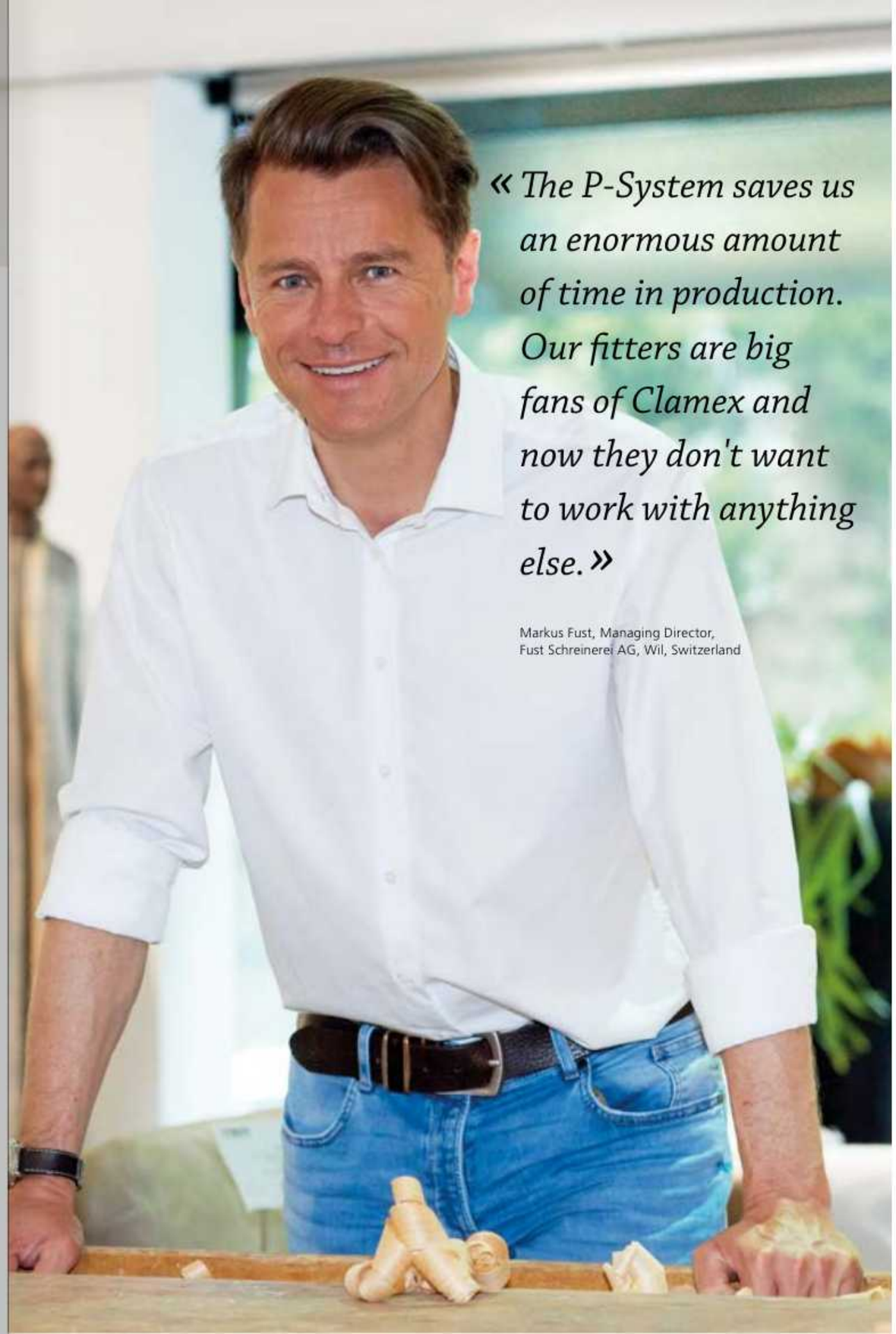
- Tool-free connector installation
- Workpieces with pre-installed P-System connectors are stackable for storage and transport
- No extra bags or loose hardware required with furniture shipment
- Tool-free connector disassembly for surface treatment

- Simple positioning of workpieces thanks to positioning pins
- Easy assembly with an Allen key
- Aesthetically small, barely visible hole (Ø = 6 mm)
- Open the connection time and time again with the rotating lever
- Lateral tolerance perfect, flush alignment of both workpieces



1. Machining with a Zeta P2 or CNC machine
2. Only one tool change
3. Tool-free connector installation
4. Flat pack delivery
5. Versatile for all angles and joining situations
6. Strong and detachable connection



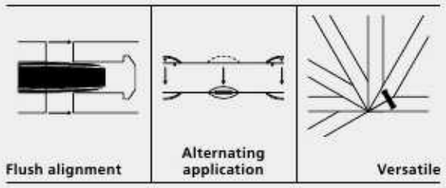


# Bisco P

Aligning element, suitable for the P-System groove



## Features




Bisco P is a plastic biscuit which fits into the 7 mm P-System groove and is held in the groove due to its surface structure. Bisco P is used in combination with Clamex or Tenso as a cost-effective alignment element and ensures flushness of the joint. The Bisco can also be used as a dry joint as a test before the work piece is permanently joined with Tenso P and adhesive.

Bisco P-14 is used in combination with Clamex P-14 or Tenso P-14; and Bisco P-10 with the same connectors in size P-10.

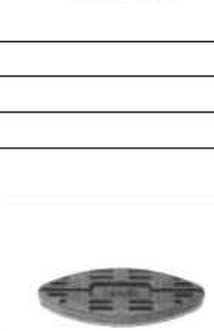




## Articles

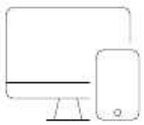


| **Bisco P-14** | Art. No. |
|---|---|
| 80 pieces | **145301** |
| 300 pieces | **145302** |
| 1000 pieces | **145303** |



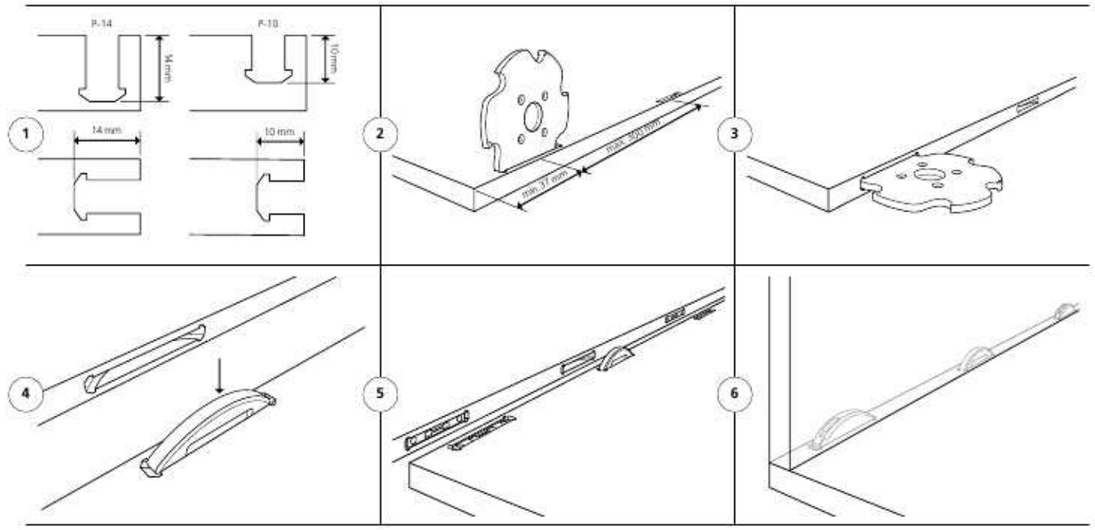
| **Bisco P-10** | Art. No. |
|---|---|
| 80 pieces | **145304** |
| 300 pieces | **145305** |

**www.lamello**



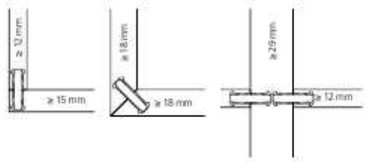
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




| **Bisco P-14** | |
|---|---|
| Size | 65 × 27 × 7 mm |
| Cutter | Ø 100.4 × 7 × Ø 22 mm |
| Material connector | Plastic |
| Installation tolerance | Long. ± 2 mm |
| Tensile strength (N) | Depending on the connector combination* |

| **Bisco P-10** | |
|---|---|
| Size | 52 × 19 × 7 mm |
| Cutter | Ø 100.4 × 7 × Ø 22 mm |
| Material connector | Plastic |
| Installation tolerance | Long. ± 2 mm |
| Tensile strength (N) | Depending on the connector combination* |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. |

* See **PAGE 68** for technical specifications

# Tenso P-14

Self-clamping connector for glueing materials from 16 mm thickness



## Features




Tenso P-14 is a self-clamping glueing aid and is anchored in the form-locking P-System groove within seconds.

The high clamping force of Tenso leads to perfectly clamped joints without the need for clamps or presses, regardless of the angle of the work pieces.

Aesthetic joining is possible without visible connectors, with short assembly times and without the need to wait for the glue to dry. Tenso P-14 is used on mitre joints from 18 mm material thickness and in butt joints from 15 mm.





## Articles



| **Tenso P-14** | Art. No. |
|---|---|
| 80 pairs | **145415** |
| 80 pairs, with preload clip | **145415S** |
| 300 pairs | **145425** |
| 300 pairs, with preload clip | **145425S** |
| 1000 pairs | **145435** |
| 2000 pieces element with spring | **145440** |
| 2000 pieces element without spring | **145441** |

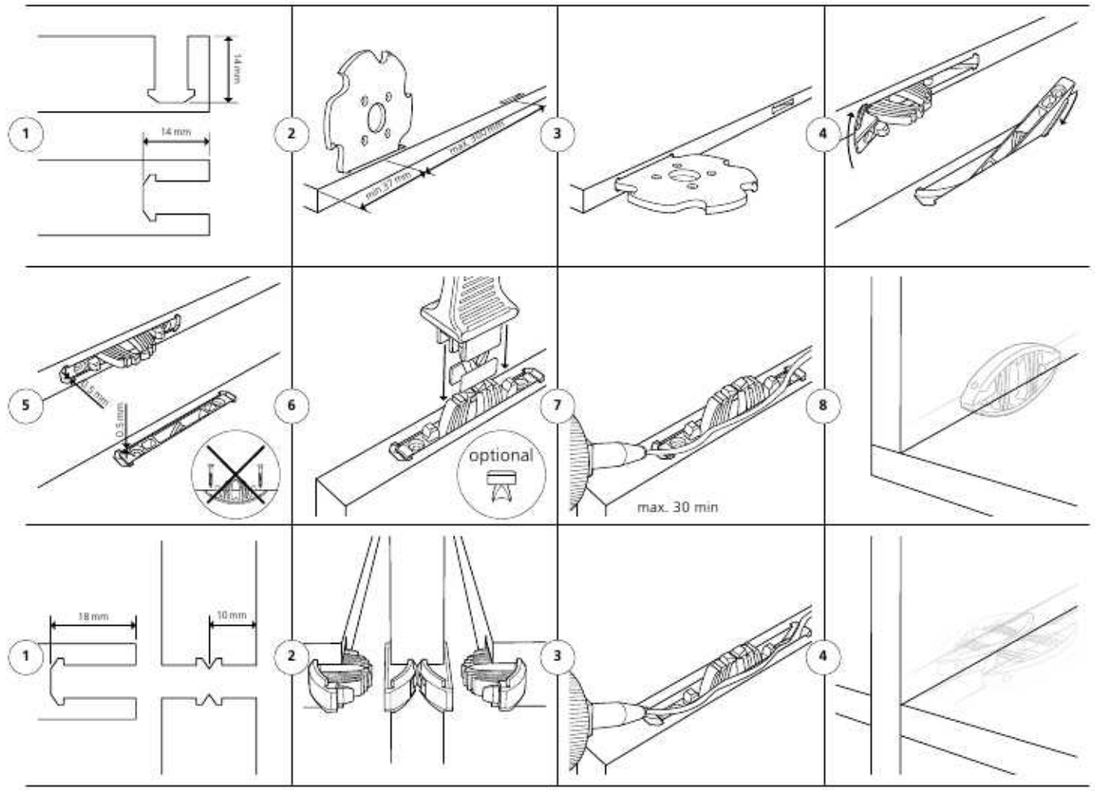


| **Tenso P-14 preload clip** | Art. No. |
|---|---|
| 300 pieces | **145426** |
| 1000 pieces | **145436** |

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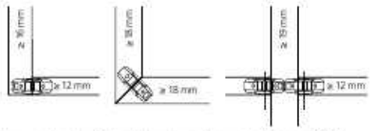
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




Important: The aligning element Bisco P-14 is ideal to dry-assemble the joints before glueing

| | |
|---|---|
| Size | 66 × 27 × 9.7 mm |
| Cutter | Ø 100.4 × 7 × Ø 22 mm |
| Material connector | Fiberglass reinforced plastic |
| Installation tolerance | Long. ± 1 mm/radial ± 1 mm |
| Tensile strength (N) | Depending on the adhesive |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. |

See **PAGE 69** for technical specifications

# Tenso P-10

Self-clamping connector for glueing thin materials from 12 mm thickness



## Features




Tenso P-10 is a self-clamping connector to glue and is anchored in the form-locking P-System groove within seconds.

The high clamping force of Tenso leads to perfectly clamped joints without clamps or presses, regardless of the angle of the work pieces.

Aesthetic joining is possible without visible connectors, with short assembly times and without having to wait or the glue to dry. Tenso P-10 is used on mitre joints from 15 mm material thickness and in butt joints from 12 mm.





## Articles



| **Tenso P-10** | Art. No. |
|---|---|
| 80 pairs, with preload clip | **145418** |
| 300 pairs, with preload clip | **145428** |
| 1000 pairs, with preload clip | **145438** |
| 2000 pieces element with spring | **145442** |
| 2000 Spieces element without spring | **145443** |

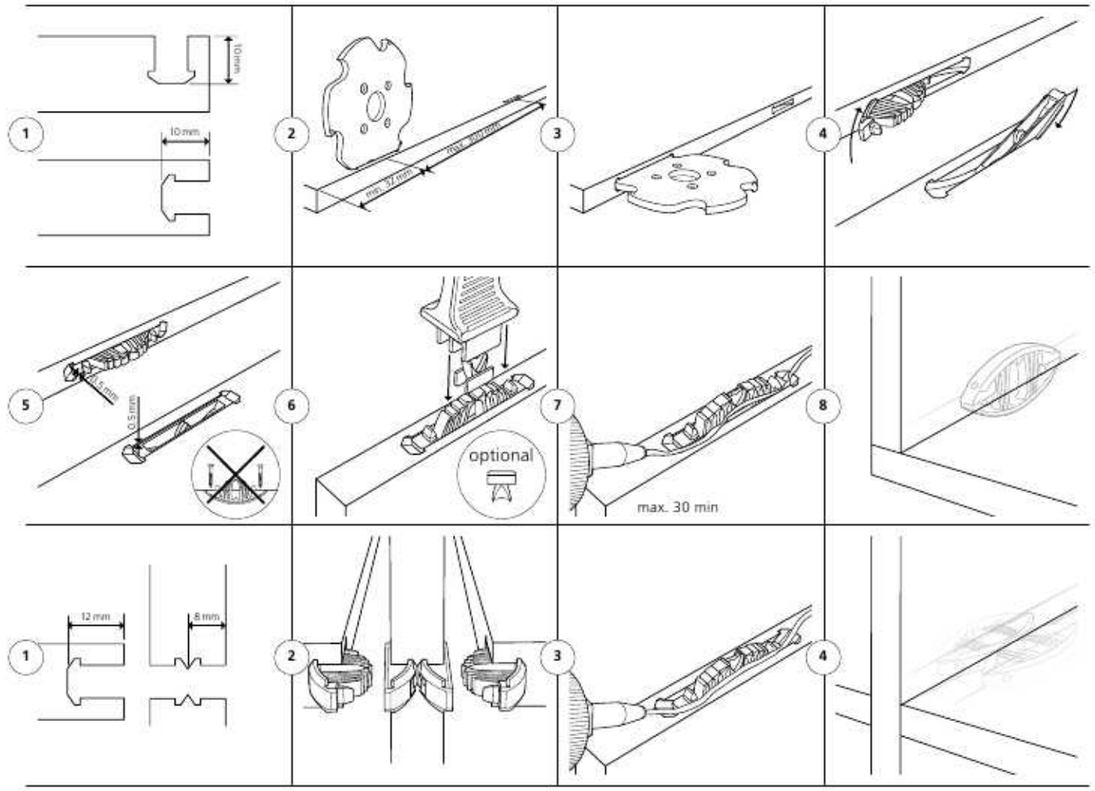


| **Tenso P-10 preload clip** | Art. No. |
|---|---|
| 2000 pieces | **145445** |

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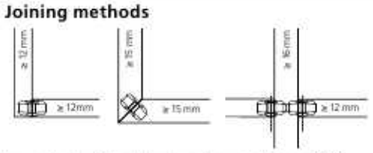
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




Important: The aligning element Bisco P-10 is ideal to dry-assemble the joints before glueing

| | |
|---|---|
| Size | 52 × 19 × 9.7 mm |
| Cutter | Ø 100.4 × 7 × Ø 22 mm |
| Material connector | Fiberglass reinforced plastic |
| Installation tolerance | Long. ± 1 mm/radial ± 1 mm |
| Tensile strength (N) | Depending on the adhesive |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. |

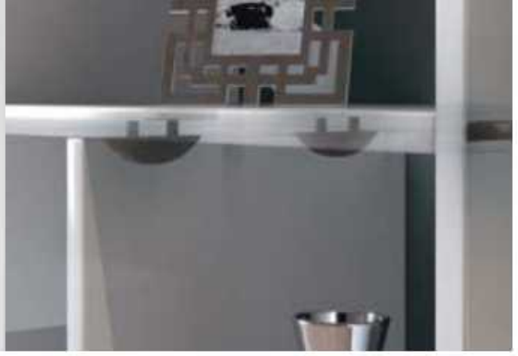
See **PAGE 69** for technical specifications

# Divario P-18

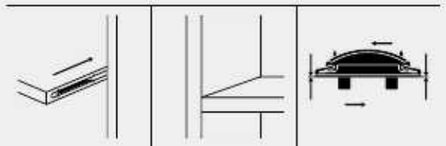
Self-clamping, invisible connector for slide insertion







## Features



**Sliding insertion** | **Invisible** | **Clamped joint**

Divario P-18 is a detachable connector for slide-in insertion and is anchored in the form-locking P-System groove within seconds.

The connector is used to slide shelves or partitions into an already assembled cabinet. In the process, the Divario P-18 clamps the workpieces together firmly and ensures perfectly closed joints without visible connectors.

Divario P-18 is used for joining shelves to divisions from 18 mm panel thickness or in butt joints from 12 mm.





## Articles



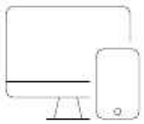
interzum Award

| **Divario P-18** | Art. No. |
|---|---|
| 80 pairs | **145550** |
| 300 pairs | **145560** |
| 1000 pairs | **145570** |
| 2000 pieces, element for P-System groove | **145520** |
| 2000 pieces, element for drill holes | **145540** |



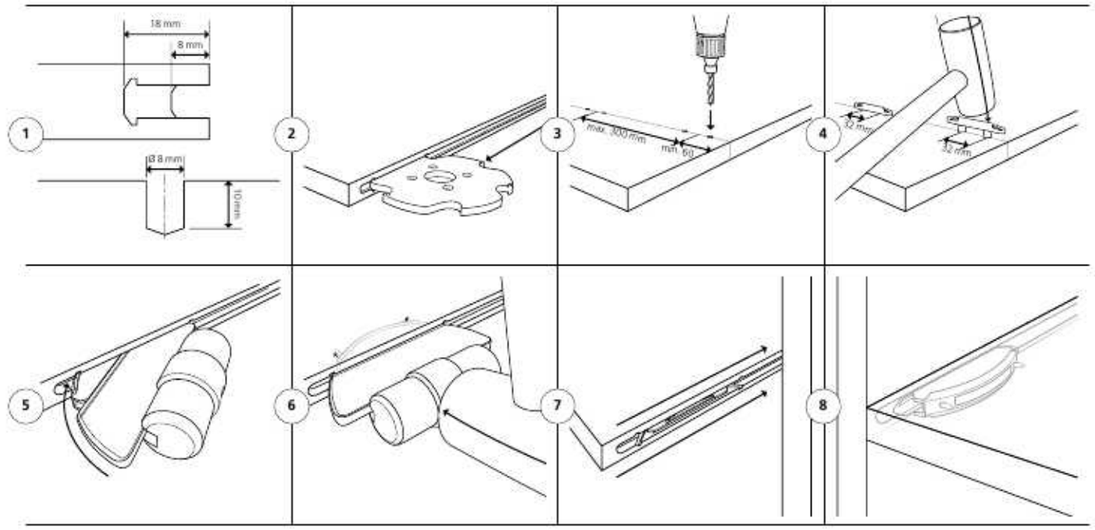
| **Divario P-18 Installation tool** | Art. No. |
|---|---|
| For fixing the Divario in the workpiece | **125500** |

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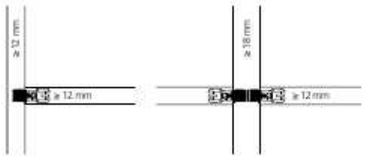
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




| | | | | | |
|---|---|---|---|---|---|
| Element with P-System groove | 65 × 16 × 9.7 mm | | | | |
| Element with drill holes | Ø 8 × 10 mm, distance 32 mm | | | | |
| Cutter | Ø 100.4 × 7 × Ø 22 mm | | | | |
| Material connector | Fiberglass reinforced plastic | | | | |
| Installation tolerance | Long. ± 1 mm/radial ± 0 mm | | | | |
| Load limits per connector (N) Up to | (mm) | 19 | 22 | 25 | 30 |
| | MDF | 600[1] | 700[1] | 800[1] | 1000[1] |
| | Particle board | 500[1] | 600[1] | 700[1] | 1000[1] |
| | Beech | 1700[1] | 2000[1] | 2000[1] | 2000[1] |
| | Spruce | 800[1] | 900[1] | 1300[1] | 1400[1] |
| Tensile strength (N) | All materials | 600[1] | | | |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. | | | | |

See **PAGE 69** for technical specifications | [1] See comment on load limits on **PAGE 195**

# High performance without cable

LiHD battery pack

**Ludwig Bauer, Teamleader Product Management**

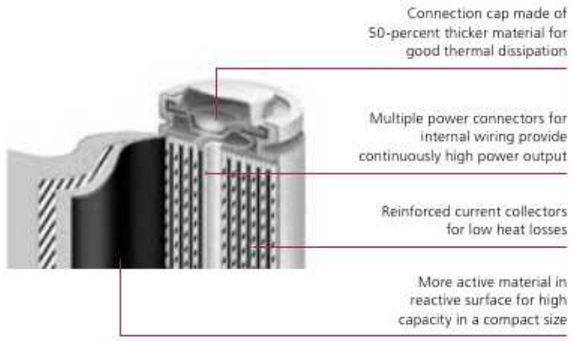
*«With the lightweight, powerful 18 V LiHD 4.0 Ah battery pack, the Zeta P2 cordless is ideally equipped to cut longitudinal grooves for the Divario P-18 – even in solid wood.»*




## LiHD: The world's most powerful battery system in the industry

A unique interplay of:

- Intelligent battery management for long-lasting high capacity
- Patented AIR-COOLED system for short charging times with hot batteries
- High-quality cell structure with 50-percent reduced internal resistance ensures full Zeta power even with a small battery pack




## Powerful 18 V LiHD battery pack either as 4.0 Ah or 5.5 Ah

### 18 V LiHD 4.0 Ah

- Included as standard battery in the set
- Compact, lightweight and powerful
- Suitable for all applications



### 18 V LiHD 5.5 Ah

- Available as an option for even longer working periods



# More flexible in the workshop

The ready-to-hand battery-powered biscuit joiner ensures greater efficiency and flexibility in the workshop.



- No tangling of the cable or the suction hose when machining large workpieces
- Cutting directly on the workpiece reduces the handling of bulky parts. There is also no need to disconnect and plug in the cable

**Large workpieces**



- Quick production of furniture with different angles without complicated programming on the CNC
- Create prototypes without time-consuming machine setup. Unrestricted design freedom thanks to the wide variety of joining elements

**Exclusive individual pieces**



- The cordless power tool can be used to easily adapt or add grooves in no time
- Corner connections are quickly and precisely cut directly at the work bench

**Adapting furniture**





# Mobile working on the construction site

The cordless biscuit joiner makes work on the construction site much easier – there is no need to search for sockets and roll out the cable reel.

**Fitted panels**



- Easily and flexibly cut grooves in fitted panels on site, even if the furniture has been completely machined on the CNC
- Additional grooves on the longitudinal joint for fillers or pillar cladding are created extremely efficiently after fitting

**Roof window casing**



- For renovation work, the grooves are only cut directly on site after fitting
- Cable-free work facilitates handling overhead and in hard-to-reach niches

**Terrace floors**



- Join components outdoors without access to a power connection
- No walkways between the processing site and the installation site, and no additional handling of the cable reel



# Zeta P2 cordless

The powerful P-System biscuit joiner for cordless freedom

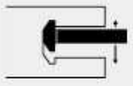




## Features



**Fast conection**



**Automatic vertical movement**



**Cordless freedom**

The Zeta P2 cordless is the battery-powered biscuit joiner for even faster joining, suitable for use with P-System connectors. It is used to create the form-locking P-System groove within seconds, and is even more flexible to use due to its cordless freedom. The integrated vertical mechanical drive is automatically triggered at the maximum cutting depth and performs a lateral cutter movement for the P-System groove. Connectors with various functions and different sizes can now be inserted into the form-locking P-System groove without the need for any tools.





## Articles



| **Zeta P2 cordless biscuit joiner, DP (diamond)** | Art. No. |
|---|---|
| In systainer, incl. 2 batteries and charger | **101801SD** |
| In systainer, without batteries, without charger | **101800SD** |



Kit contains

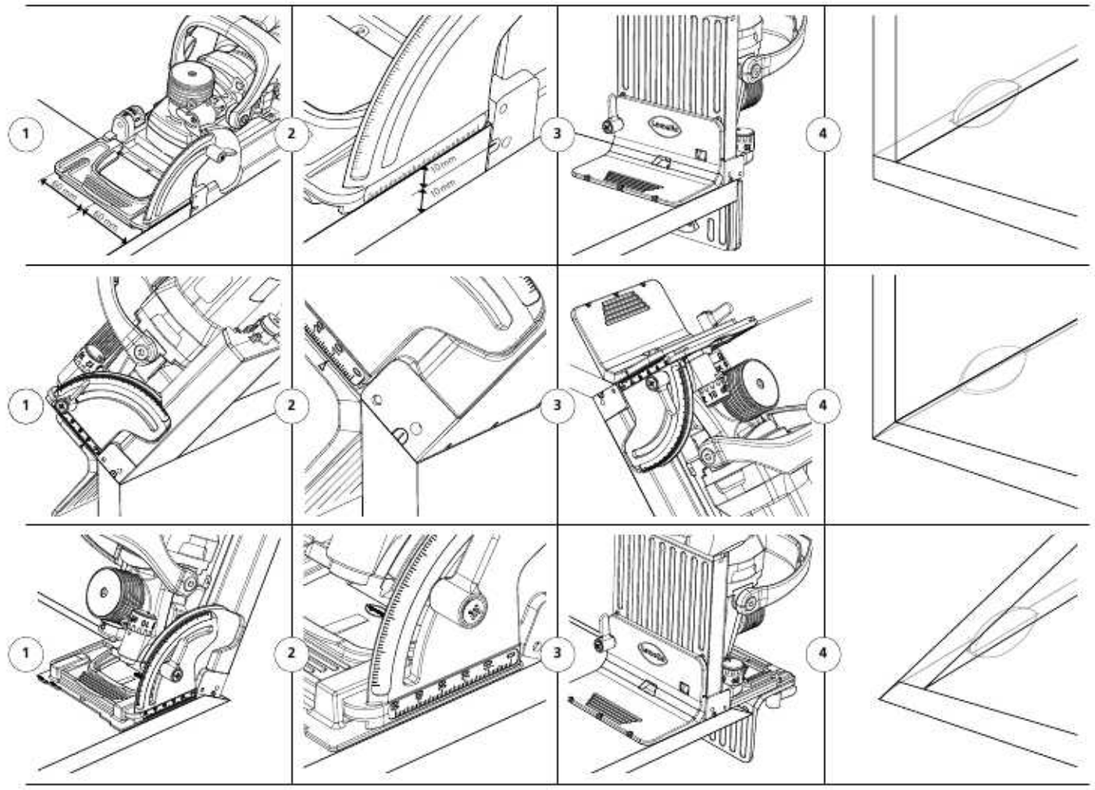
Zeta P2 cordless biscuit joiner, DP, 2 × battery pack 18 V, LiHD 4.0 Ah*, battery charger ASC 55*, P-System drill jig incl. drill, suction stub 36 mm, spacer 2 and 4 mm, dust bag, tool set, stop square

** Only included in art. No. 101801SD*

**www.lamello**

Experience Zeta P2 cordless live and receive comprehensive product information!

## Function




## Technical data

| | | | |
|---|---|---|---|
| Battery voltage | 18 V | Groove width | 7/10 mm |
| Speed | 9000 $min^{-1}$ | Groove depth max. | 20 mm |
| P-System Cutter | Ø 100.4 × 7 × 22 mm | Weight | 3.7 kg incl. battery |

# Zeta P2

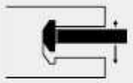
The machine for the evolving P-System, saving you time daily! Differentiate your products from the standard!



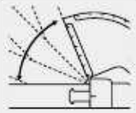
## Features



**Fast conection**



**Automatic vertical movement**



**Numerous machining options**

The Zeta P2 is the biscuit joiner for P-System connectors and is used to create the form-locking P-System goove within seconds. The integrated vertical mechanical drive is automatically triggered at the maximum cutting depth and performs a lateral cutter movement for the P-System groove. Connectors with various functions and different sizes can now be inserted into the form-locking P-System groove. The insertion into the groove is quick and without tools.





## Articles



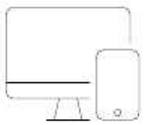
| **Zeta P2** | Art. No. |
|---|---|
| With P-System groove cutter HW (carbide) in Systainer | **101403S** |
| With P-System groove cutter DP (diamond) in Systainer | **101403SD** |



**Kit contains**

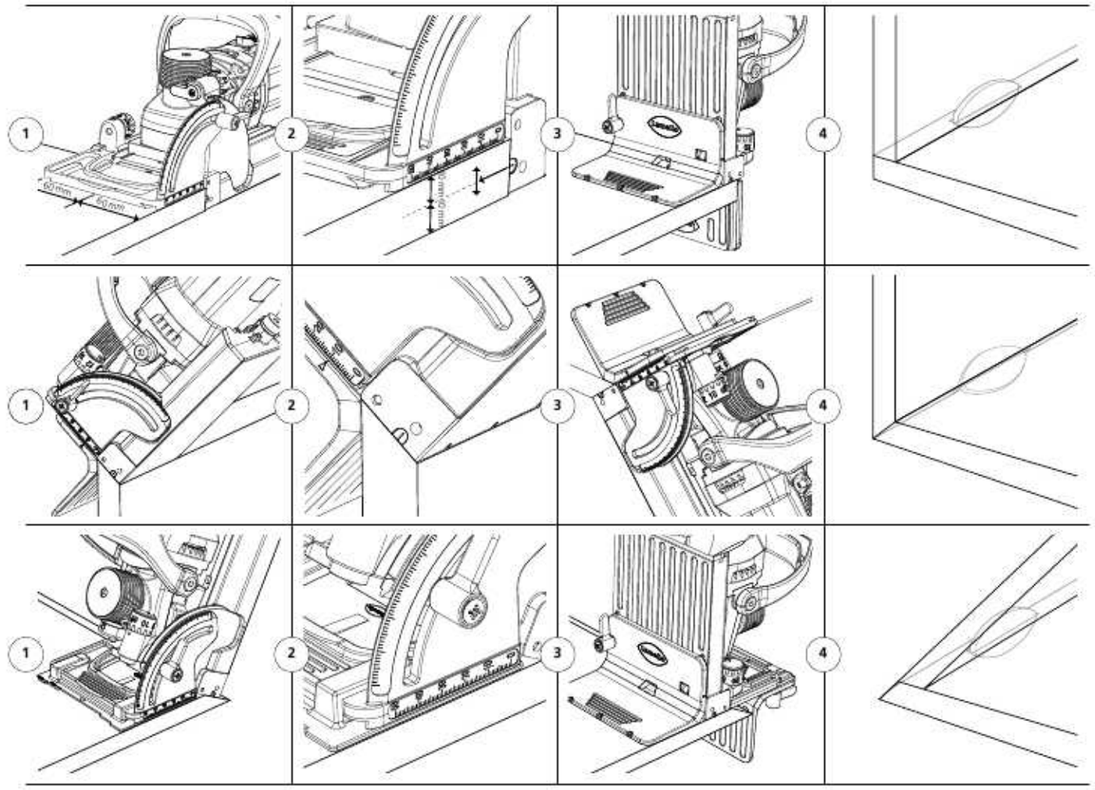
Zeta P2, P-System groove cutter, stop square, suction stub 36 mm, disc for angles, spacer 2 + 4 mm, tools, Clamex P drill jig incl. drill

**www.lamello**



Experience Zeta P2 live and receive comprehensive product information!

## Function




## Technical data

| | | | |
|---|---|---|---|
| Power/Voltage | 1 050 W/230 V<br>800 W/120 V | Teeth | Z3 |
| Speed | 9 000 min⁻¹ | Cutting depth max. | 20 mm |
| P-System Cutter | HW: Ø 100.9 × 7 × Ø 22 mm<br>DP: Ø 100.4 × 7 × Ø 22 mm | Weight | 3.7 kg |

# Accessories

Zeta P2 cordless and Zeta P2

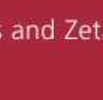
## Accessories



| **Stop square for Zeta P2, Top 21, Classic X** | Art. No. |
|---|---|
| For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints | **251044** |



| **Spacer for Zeta P2, Top 21, Classic X** | Art. No. |
|---|---|
| 5 mm, aluminium for 18 mm panels | **253027** |
| 2 mm, plastic for 16 mm panels | **253023** |
| 4 mm, plastic for mitres | **253026** |



| **P-System groove cutter DP (diamond), Ø 100.4 × 7 × Ø 22 mm** | Art. No. |
|---|---|
| Z3, 4 NL for Zeta P2 | **132140** |



| **P-System groove cutter HW (carbide), Ø 100.9 × 7 × Ø 22 mm** | Art. No. |
|---|---|
| Z3, 4 NL for Zeta P2 | **132141** |



| **Groove cutter HW (carbide), Ø 100 × 4 × Ø 22 mm** | Art. No. |
|---|---|
| Z2 + V4 scoring teeth, 4 screw holes, hub for Zeta P2/Top 21/Classic X | **132000** |



| **Dust bag** | Art. No. |
|---|---|
| For Zeta P2/Top 21/Classic X | **257532** |

## Batteries



| | Art. No. |
|---|---|
| Battery pack 18 V, LiHD 4.0 Ah | **313013** |



| | Art. No. |
|---|---|
| Battery pack 18 V, LiHD 5.5 Ah | **313015** |



| | Art. No. |
|---|---|
| Battery charger ASC 55 | **123100** |

Please find the complete accessories range starting **PAGE 180**



# Connected in seconds ...

Without waiting time, clamps, or secondary processes,
glued and clamped in 40 seconds

## Advantage

**... with Clamex P – detachable**




| **Time for one connector pair** | |
|---|---|
| 1. Cut | 25 |
| 2. Drill | 15 |
| 3. Insert | 5 |
| 4. Connect – finished! | 5 |
| **Ready in** | **50 s** |

**... with Tenso P – glued**




| **Time for one connector pair** | |
|---|---|
| 1. Cut | 25 |
| 2. Insert | 5 |
| 3. Apply glue | 5 |
| 4. Connect – finished! | 5 |
| **Ready in** | **40 s** |



Versatile use with many different connecting elements.

With the Zeta P2, you can quickly and easily connect parts with a range of angles and joining situations. Suitable for individual pieces of furniture as well as prototypes and line production.



## With P-System groove



Clamex P-14



Clamex P-14/10 Medius



Clamex P-10



Clamex P-14/10 Flexus



Bisco P-14



Bisco P-10



Tenso P-14



Tenso P-10



Divario P-18



## With 4 mm Lamello System groove cutter



20



10



0



E20-H



E20-L



K20



C20



C10



Simplex



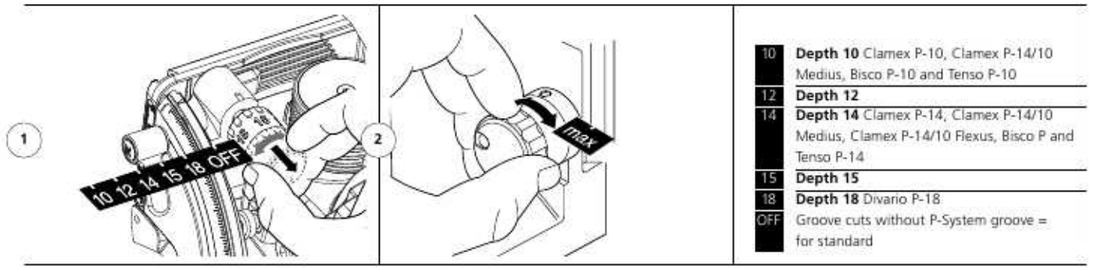
## With 3 mm Lamello System groove cutter



H9

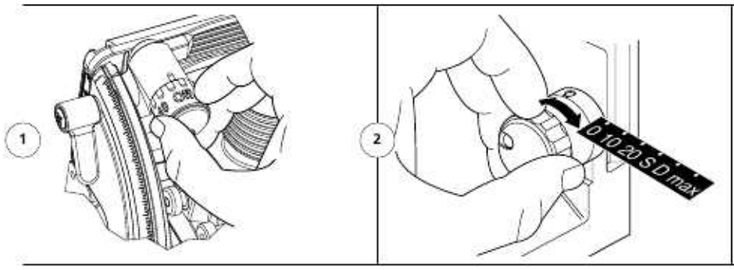


## P-System depth adjustment




| | |
|---|---|
| 10 | **Depth 10** Clamex P-10, Clamex P-14/10 Medius, Bisco P-10 and Tenso P-10 |
| 12 | **Depth 12** |
| 14 | **Depth 14** Clamex P-14, Clamex P-14/10 Medius, Clamex P-14/10 Flexus, Bisco P and Tenso P-14 |
| 15 | **Depth 15** |
| 18 | **Depth 18** Divario P-18 |
| OFF | Groove cuts without P-System groove = for standard |

## Lamello depth adjustment system

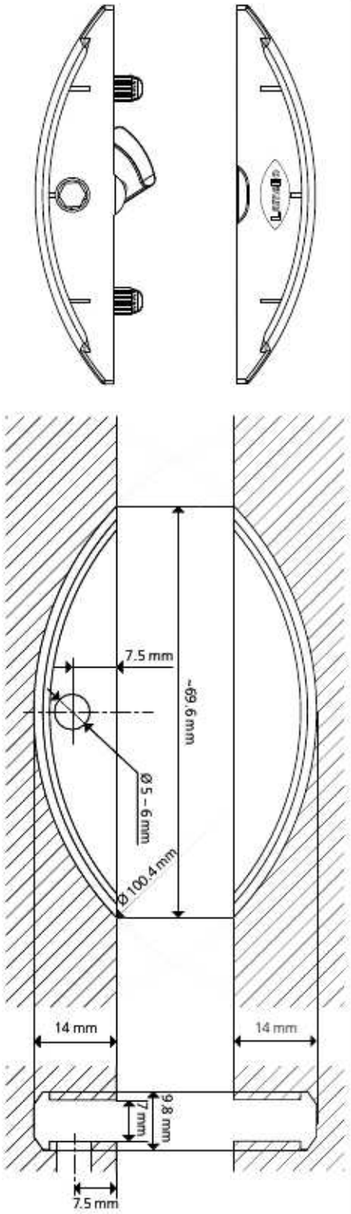



| | |
|---|---|
| 0 | **Depth 0** no. 0 |
| 10 | **Depth 10** no. 10, C10 |
| 20 | **Depth 20** no. 20, E20-L, K20, C20 |
| S | **Depth S** E20-H, Simplex |
| D | **Depth D** Clamex S-18, E20-L |
| max | **Depth max** H9 (incl. spacer), E20-L |

## Technical information

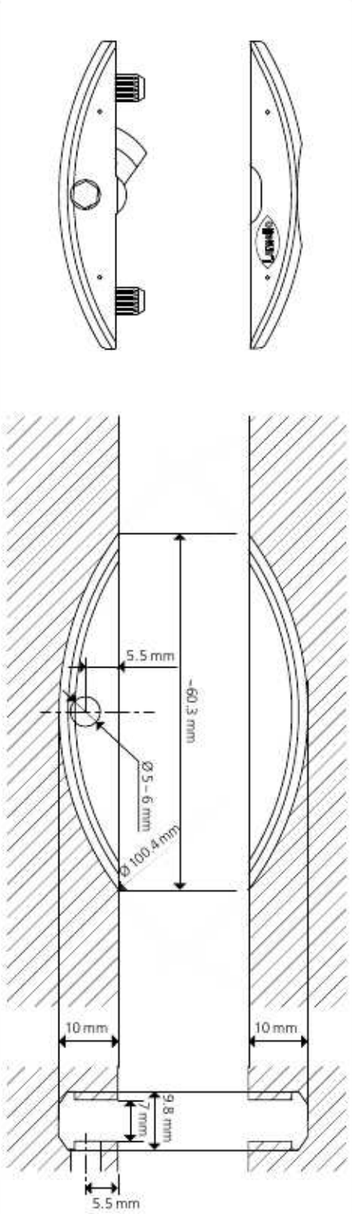
Overview of connectors + grooves (scale 1:1)

### Clamex P-14



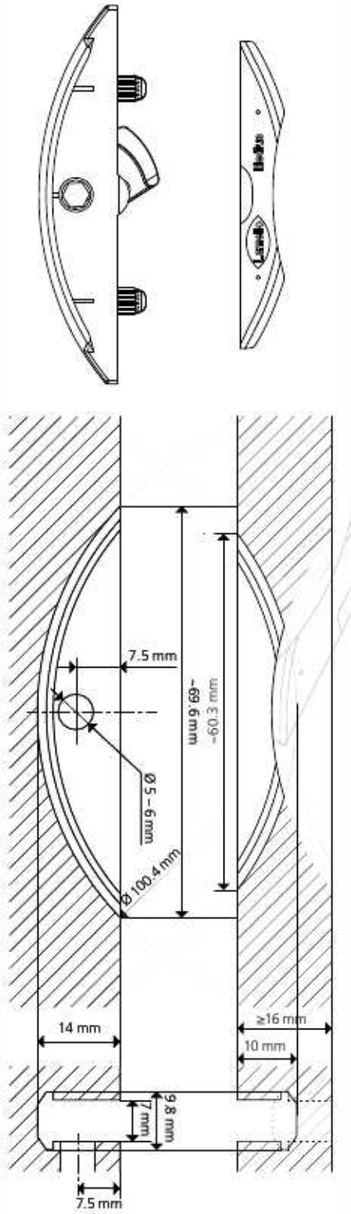

| Tensile strength (N) | Up to |
|---|---|
| MDF | 900[1] |
| Particle board | 800[1] |
| Beech | 1000[1] |

### Clamex P-10




| | Up to |
|---|---|
| MDF | 600[1] |
| Particle board | 600[1] |
| Beech | 900[1] |

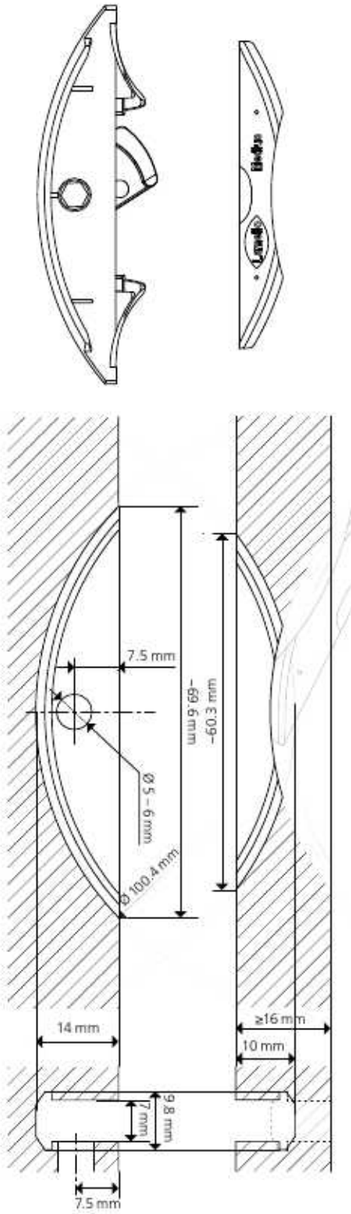
### Clamex P-14/10 Medius




| | Up to |
|---|---|
| MDF | 800[1] |
| Particle board | 600[1] |
| Beech | 900[1] |

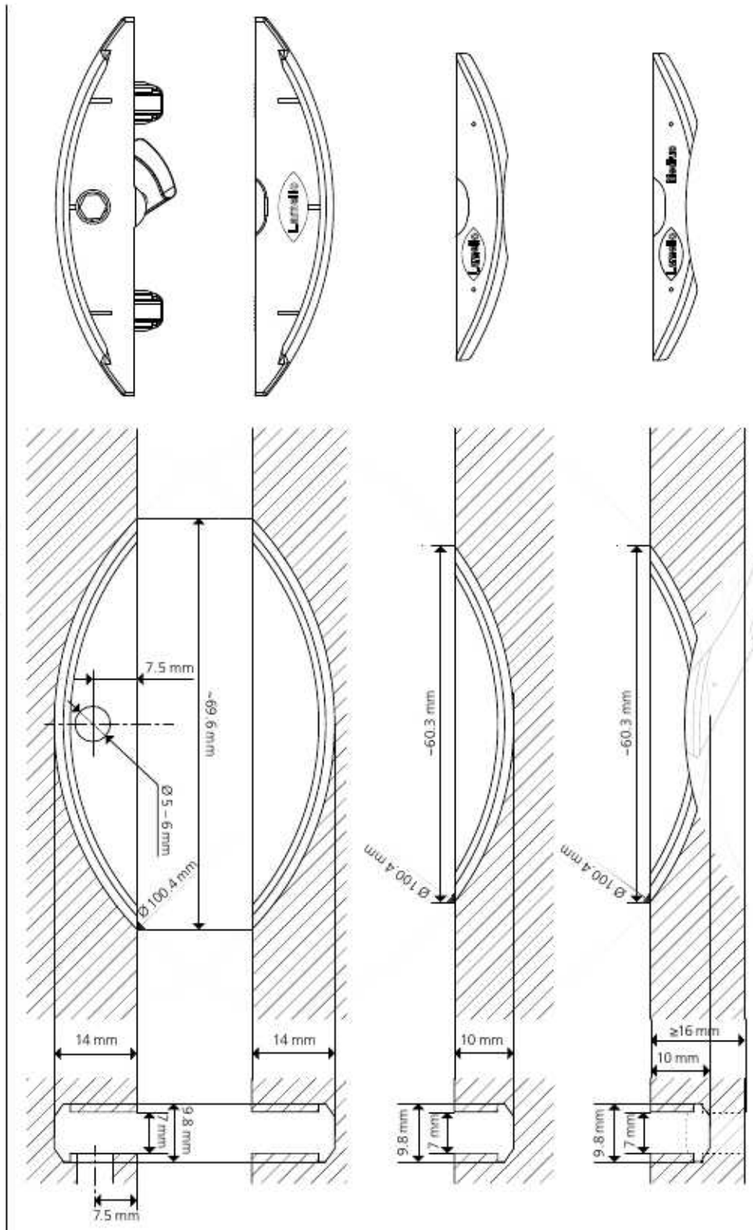


### Clamex P-14/10 Flexus




| Tensile strength (N) | Up to |
|---|---|
| MDF | 720[1] |
| Particle board | 600[1] |
| Beech | 810[1] |

### Clamex P-14 CNC with lever / Clamex P-14 without lever / Clamex P-10 without lever / Clamex P-10 Medius without lever



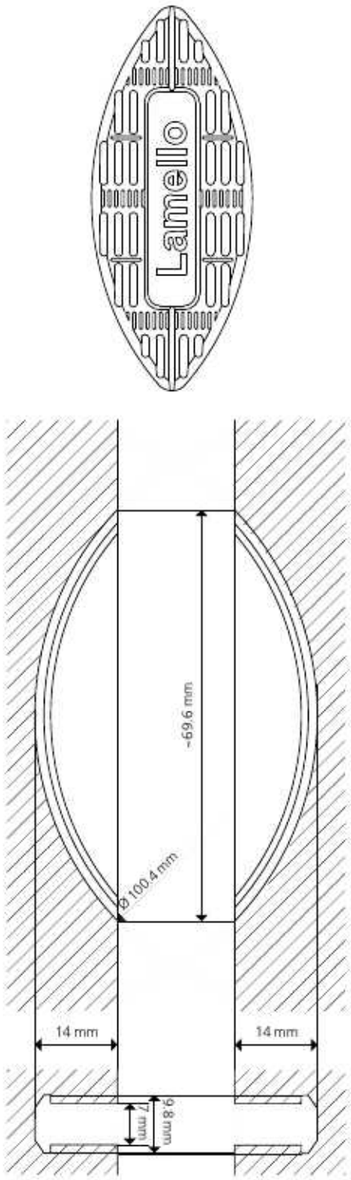

| Tensile strength (N) | Up to | Up to | Up to |
|---|---|---|---|
| MDF | 900[1] | 800[1] | 800[1] |
| Particle board | 800[1] | 600[1] | 600[1] |
| Beech | 1000[1] | 900[1] | 900[1] |

[1] See comment on load limits on **PAGE 195**

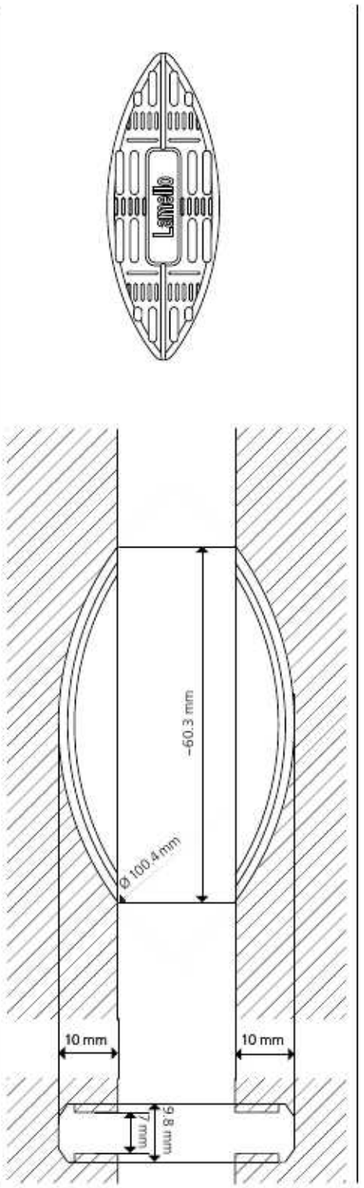
## Technical information

Overview of connectors + grooves (scale 1:1)

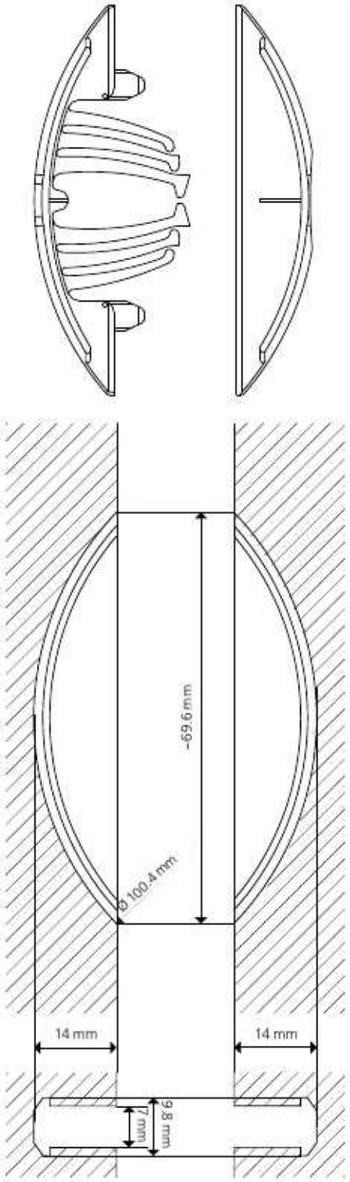
**Bisco P-14**




**Bisco P-10**



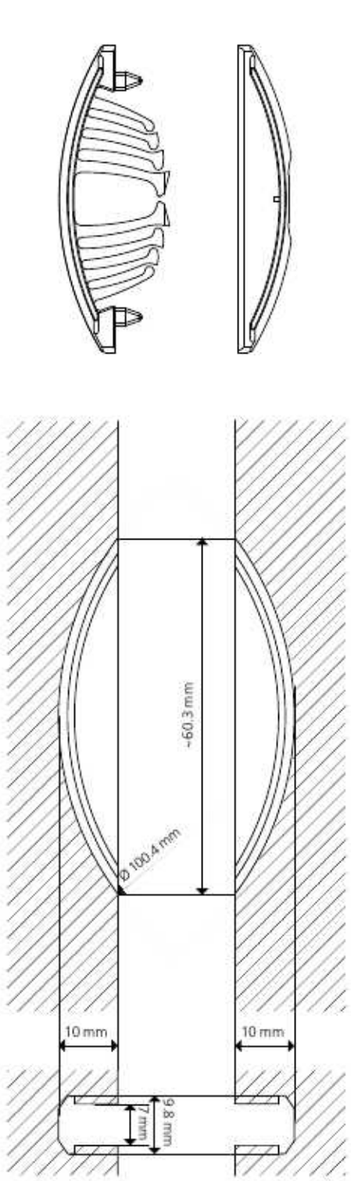

**Tenso P-14**




**Tensile strength (N)**

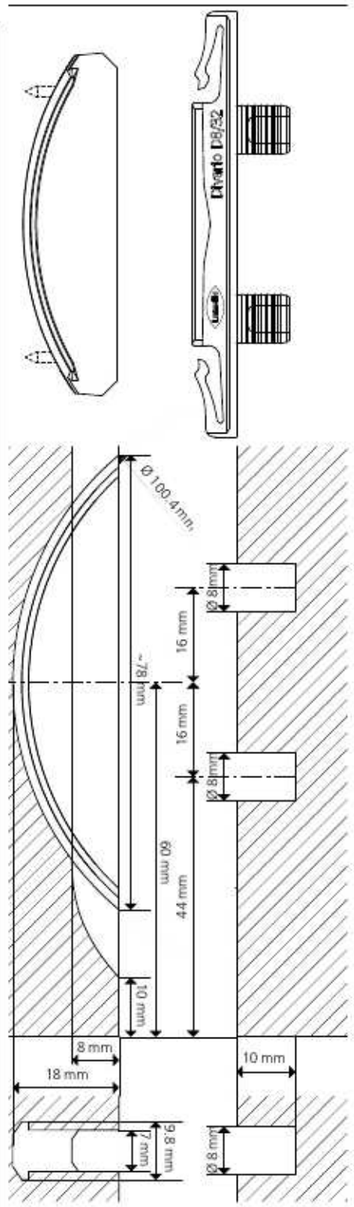
| |
|---|
| Depending on the adhesive |

**Tenso P-10**




| |
|---|
| Depending on the adhesive |

**Divario P-18**




**Load limits per connector (N)***

| (mm) | 19 | 22 | 25 | 30 |
|---|---|---|---|---|
| MDF | 600[1] | 700[1] | 800[1] | 1000[1] |
| Particle board | 500[1] | 600[1] | 700[1] | 1000[1] |
| Beech | 1700[1] | 2000[1] | 2000[1] | 2000[1] |
| Spruce | 800[1] | 900[1] | 1300[1] | 1400[1] |

**Tensile strength (N)**

| | |
|---|---|
| All materials | 600[1] |

[1] See comment on load limits on **PAGE 195** | * Up to

# Accessories / Spare Parts

P-System



## P-System



| **P-System connector assortment professional** | Art. No. |
|---|---|
| Scope of delivery: 120 pairs Clamex P-14, 30 pairs Clamex P-14/10 Flexus, 30 pairs Clamex P-10, 80 pairs Tenso P-14 incl. clip, 30 pairs Tenso P-10 incl. clip, 20 pieces Bisco P-14, 20 pieces Bisco P-10, 80 pairs Divario P-18, Divario installation tool/drill/ marking gauge, Clamex P installation tool, Tenso P-14/10 preload tool, Sortainer T-loc | **145323** |



| **P-System connector assortment basic** | Art. No. |
|---|---|
| In Systainer3 M187, scope of delivery: 80 pairs Clamex P-14, 80 pairs Tenso P-14, incl. preload clip, 30 pairs Clamex P-14/10 Medius, 30 pairs Clamex P14/10 Flexus, 20 pieces Bisco P-14 and Tenso P-14/10 preload tool | **145321** |

## Clamex P



| **Clamex P assembly tool** | Art. No. |
|---|---|
| For all angles, fast and flexible, hex 4 × 30 mm, length 290 mm | **251993** |



| **Allen key** | Art. No. |
|---|---|
| 4 mm, 75 × 55 mm | **271945** |
| 4 mm, 120 × 50 mm | **271945A** |



| **Cover cap, 100 pieces, 90°** | | Art. No. |
|---|---|---|
| RAL 9010 pure white | ○ | **335280** |
| RAL 9011 graphite black | ● | **335281** |
| RAL 1014 ivory, pine | ● | **335282** |
| RAL 1011 brown beige, beech | ● | **335283** |
| RAL 8007 fawn brown | ● | **335284** |
| RAL 8017 chocoloate brown | ● | **335289** |
| RAL 9002 grey white | ● | **335285** |
| RAL 7035 light grey | ● | **335286** |
| RAL 7040 window grey | ● | **335287** |
| RAL 7031 blue grey | ● | **335288** |
| RAL 7022 umbra grey | ● | **335298** |

| **Cover cap, 500 pieces, 90°** | | Art. No. |
|---|---|---|
| RAL 9010 pure white | ○ | **335362** |
| RAL 9011 graphite black | ● | **335363** |
| RAL 1014 ivory, pine | ● | **335364** |
| RAL 1011 brown beige, beech | ● | **335365** |



| **Cover cap, 100 pieces, 45°** | | Art. No. |
|---|---|---|
| RAL 9010 pure white | ○ | **335380** |
| RAL 9011 graphite black | ● | **335381** |
| RAL 1014 ivory, pine | ● | **335382** |
| RAL 1011 brown beige, beech | ● | **335383** |
| RAL 8017 chocoloate brown | ● | **335384** |
| RAL 7035 light grey | ● | **335386** |
| RAL 7022 umbra grey | ● | **335388** |



| **Clamex P drill jig** | Art. No. |
|---|---|
| Incl. drill, from 22.5° for all Clamex P connectors (P-10, P-14) | **125344** |
| Angle for drill jig | **255250** |
| Element insert for size P-10 | **255251** |
| Element insert for size P-14 | **255252** |



| **Clamex P drill jig long** | Art. No. |
|---|---|
| Drill jig for thick workpieces 100 mm, (P-14), incl. drill | **125345** |



| **Drill** | Art. No. |
|---|---|
| Spiral drill Ø 6 mm with centering point, for Clamex P drill jig | **131506** |
| Spiral drill Ø 6 mm with centering point, for Clamex P drill jig long | **131508** |
| Depth adjuster for drill, 6 mm diameter | **255243** |

# Accessories / Spare Parts

P-System



## Combination CNC and Zeta P2



| **Positioning pin CNC for Zeta P2*, 2 pieces** | Art. No. |
|---|---|
| Ø 5 mm | **251048** |
| Ø 8 mm | **251066** |



| **Positioning clip CNC for Zeta P2*** | Art. No. |
|---|---|
| Ø 6 mm for positioning in the Clamex P access hole (6 mm) | **251067** |

## Tenso P



| **Tenso P-14/10 preload tool** | Art. No. |
|---|---|
| Tool to pre-load the Tenso P | **145400** |



| **P-System 4 mm depth adjuster attachment for P-8** | Art. No. |
|---|---|
| For offset installation on dividing panels 16 mm with Tenso P-10 | **145439** |

## Divario P



| **Divario P-18 Marking jig metal with marking points** | Art. No. |
|---|---|
| Marking jig incl. drill with centering point and rotating depth collar for the precise drilling of Divario drill holes by hand | **125510** |



| **Divario P-18 Marking jig plastic, to mark with a pencil** | Art. No. |
|---|---|
| Marking jig to mark the Divario holes with a pencil | **125511** |



| **Divario P-18 Installation tool** | Art. No. |
|---|---|
| Divario P-18 Installation tool for fixing the Divario in the workpiece | **125500** |



| **Divario P-18 Starter set** | Art. No. |
|---|---|
| In systainer3 M137, scope of delivery: Divario P-18, 80 pairs, drill, marking jig in metal and installation tool | **145552** |



* For detailed information, see **PAGE 166/171**

## Zeta P2



| **Stop square for Zeta P2, Top 21, Classic X** | Art. No. |
|---|---|
| For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints | **251044** |



| **Spacer for Zeta P2, Top 21, Classic X** | Art. No. |
|---|---|
| 5 mm, aluminium for 18 mm panels | **253027** |
| 2 mm, plastic for 16 mm panels | **253023** |
| 4 mm, plastic for mitres | **253026** |



| **P-System groove cutter DP (diamond), Ø 100.4 × 7 × Ø 22 mm** | Art. No. |
|---|---|
| Z3, 4 NL for Zeta P2 | **132140** |



| **P-System groove cutter HW (carbide), Ø 100.9 × 7 × Ø 22 mm** | Art. No. |
|---|---|
| Z3, 4 NL for Zeta P2 | **132141** |



| **Dust bag** | Art. No. |
|---|---|
| For Zeta P2/Top 21/Classic X | **257532** |

## Batteries



| | Art. No. |
|---|---|
| Battery pack 18 V, LiHD 4.0 Ah | **313013** |



| | Art. No. |
|---|---|
| Battery pack 18 V, LiHD 5.5 Ah | **313015** |



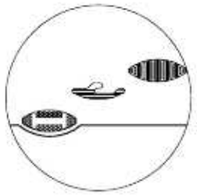
| | Art. No. |
|---|---|
| Battery charger ASC 55 | **123100** |

# Lamello System

The original for efficient, intuitive and precise joints

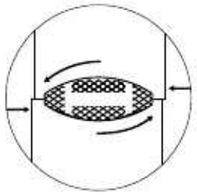


## Features



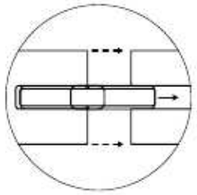
### Versatile applications

One cutting principle for many different joining elements



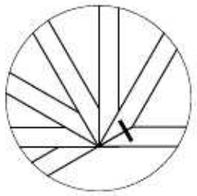
### Lateral tolerance

The generous sliding tolerance allows for perfect flush alignment of workpieces



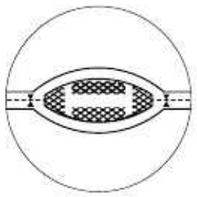
### Perfect fit

The precision of the joining elements and of the 4 mm groove lead to a perfect fit



### Versatile

The minimal element depth allows for mitres of 22.5 – 180 degrees as well as surface and corner joints and divisions



### Symmetrical

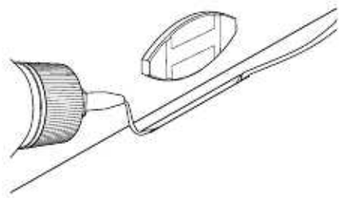
The identical groove in both workpieces leads to an increase in efficiency in production

# Lamello System

Overview

| Joining methods | Connector | Machines | | Sequence | | | |
|---|---|---|---|---|---|---|---|
| | | **Power tools** | **CNC machines** | **1** Cut | **2** Apply glue | **3** Insert the connector | **4** Clamp |

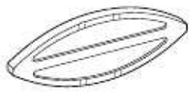
Glueing



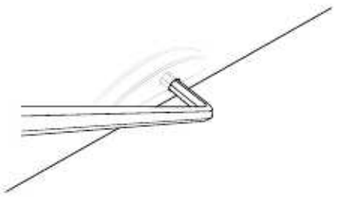
**Original wood biscuit**



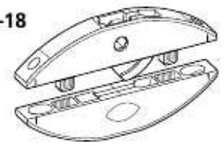

**C20**



Detachable



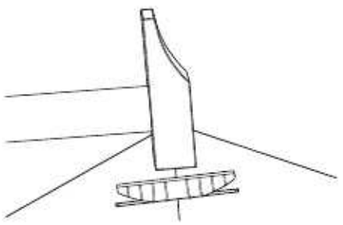
**Clamex S-18**



**Simplex**



Inserted

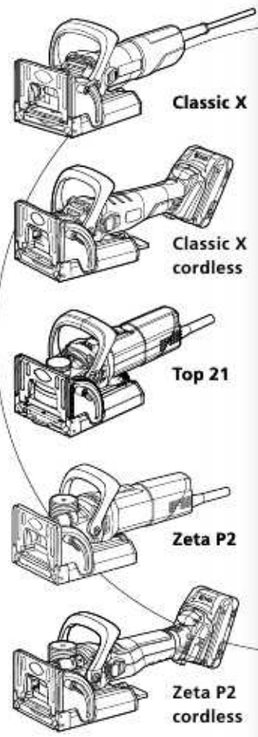


**E20**



**K20**





**Classic X**

**Classic X cordless**

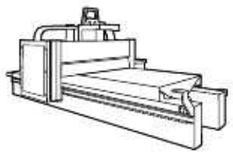
**Top 21**

**Zeta P2**

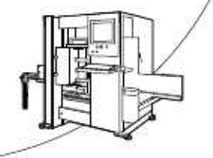
**Zeta P2 cordless**



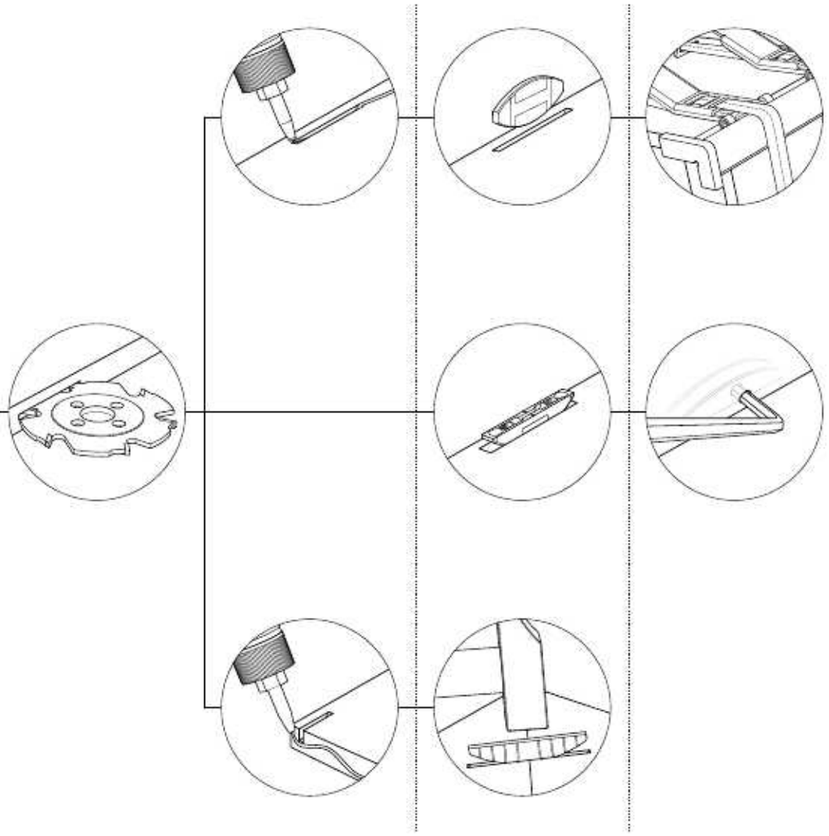
CNC processing centres with **consoles**



CNC processing centres with **nesting technology**



CNC processing centres **vertical**





*« The original biscuit – always a perfect fit! Efficient, quick and precise! »*

Antonio Orlando, Head of Production Ladenmacher AG in Hägendorf, Switzerland

# Lamello System

Applications

## Furniture manufacturing












## Interior fitting









# Lamello System

Applications

## Kitchen manufacturing










## Commercial joinery









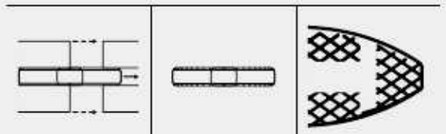

## Shop fitting

# Original wood biscuit

The original wood biscuit that always fits



## Features




The original wood biscuit is the proven solution for wood joints and the original from the inventor of the system. The original wood biscuit guarantees quality with its dimensional accuracy, optimal glue distribution, dimensional stability as well as the sustainable cultivation of the beech wood. The perfect fit demonstrates its value from the very start, when the biscuits are easily inserted into the groove and remain in place even when the work piece is turned.





## Articles




| **Original wood biscuit 20** | Art. No. |
|---|---|
| 1000 pieces | **144020** |




| **Original wood biscuit 10** | Art. No. |
|---|---|
| 1000 pieces | **144010** |



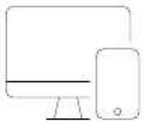

| **Original wood biscuit 0** | Art. No. |
|---|---|
| 1000 pieces | **144000** |



| **Original wood biscuit H9*** | Art. No. |
|---|---|
| 1000 pieces | **144009** |

| **Assorted** | Art. No. |
|---|---|
| 500/250/250 pieces (20/10/0) | **144030** |

**www.lamello**

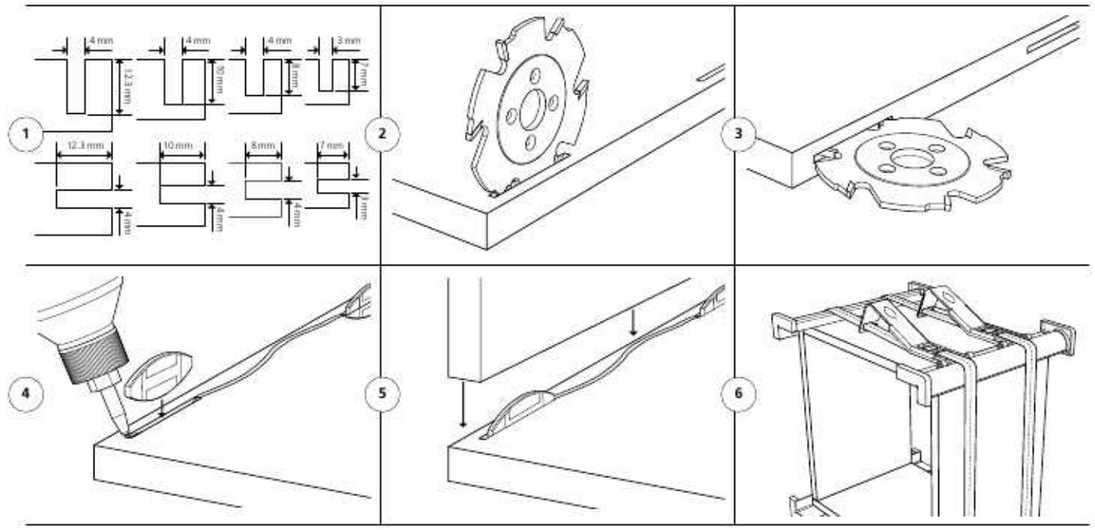


Experience the connector live and receive comprehensive product information!



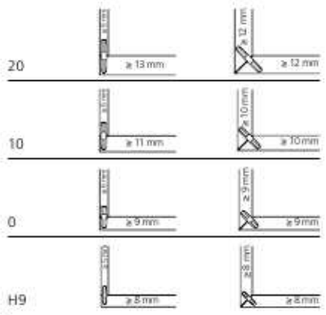
* Installation of wood biscuits with cutter Ø 100 × 4 × Ø 22 mm (standard cutter). Installation of H9 wood biscuits with cutter Ø 78 × 3 × Ø 22 mm (Art. No. 132009)

## Function




## Technical data

**Joining methods**



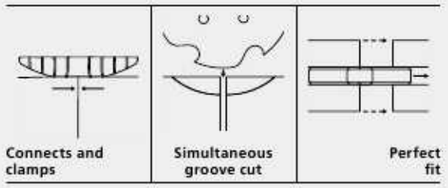

| | |
|---|---|
| Size 20 | 56 × 23 × 4 mm |
| Size 10 | 53 × 19 × 4 mm |
| Size 0 | 47 × 15 × 4 mm |
| Cutter | Ø 100 × 4 × Ø 22 mm |
| Size H9 | 38 × 12 × 3 mm |
| Cutter | Ø 78 × 3 × Ø 22 mm |
| Material connector | Beech |
| Installation tolerance | Long. ± 1.0 mm/radial ± 1.0 mm |
| Clamping force (N) | Depending on the adhesive |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. |

See **PAGE 110–111** for technical specifications

# E20

The self-clamping element

## Features




E20 is a self-clamping element and can be used with any Lamello biscuit joiner. The E20 is driven into the 4 mm groove using a hammer. During insertion, the curved ridges on each side of the connector hold in the groove and clamp the workpieces together. E20 serves as a perfect glueing aid in the workshop or on site.

E20-L is suitable for surface joints such as picture frames, plinth or panel extensions. E20-H is used in the edge and serves as a plinth connector.





## Articles



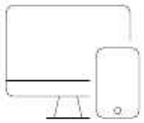
| **E20-H** | Art. No. |
|---|---|
| 80 pieces | **145021** |
| 400 pieces | **145026** |
| 1200 pieces | **145028** |



| **E20-L** | Art. No. |
|---|---|
| 80 pieces | **145022** |
| 400 pieces | **145025** |
| 1200 pieces | **145027** |

| **Assorted** | Art. No. |
|---|---|
| 40/40 pieces (E20-H/E20-L) | **145020** |

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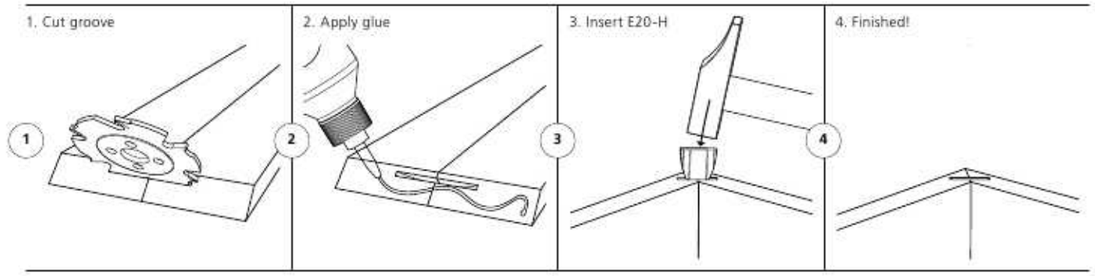


Experience the connector live and receive comprehensive product information!

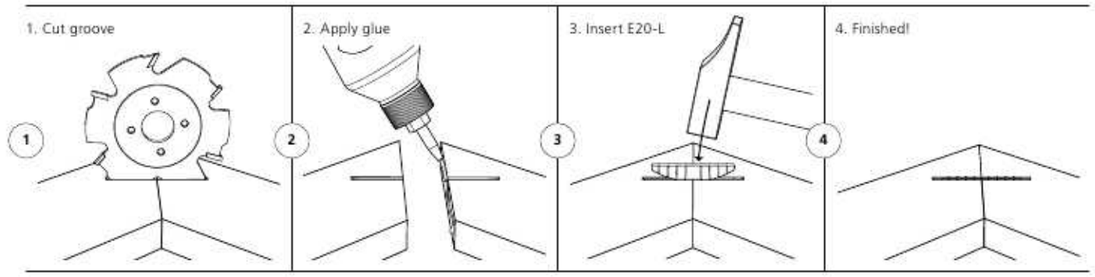


## Function

**E20-H**

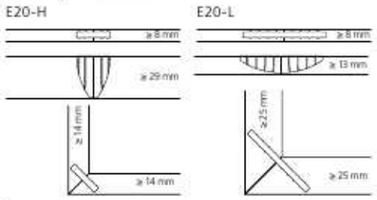



**E20-L**




## Technical data

**Joining methods**




| | |
|---|---|
| Size E20-H | 23 × 28 × 4 mm |
| Size E20-L | 56 × 11.5 × 4 mm |
| Cutter | Ø 100 × 4 × Ø 22 mm |
| Material connector | Fiberglass reinforced plastic |
| Clamping force (N) | Depending on the adhesive |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. |

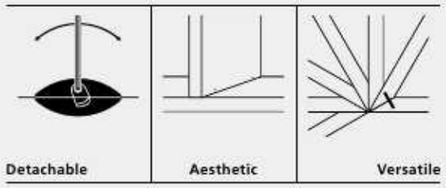
See **PAGE 113** for technical specifications

# Clamex S-18

Detachable, flexible and simple.
Installation in an 8 mm groove
with screws



## Features




Clamex S-18 is a detachable connector. It is inserted into an 8 mm wide groove and held in place with screws. Through the minimalist 6 mm access hole, Clamex S-18 is firmly connected and disconnected using a lever.

Clamex S-18 can be used with any Lamello biscuit joiner, allows aesthetic joints at all angles and is ideal for permanently joined or detachable mitres.

Clamex S-18 is used in mitre joints from 19 mm material thickness and in butt joints from 15 mm.





## Articles



| **Clamex S-18** | Art. No. |
|---|---|
| 18 pairs, incl. screws 3 × 16 mm | **145231** |
| 80 pairs | **145236** |
| 300 pairs | **145241** |
| 1000 pairs | **145251** |

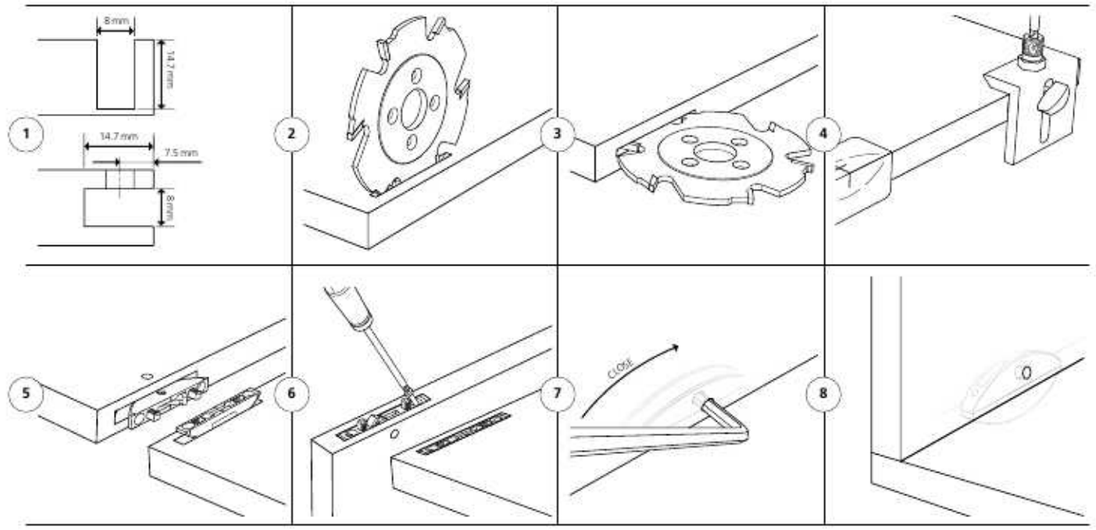
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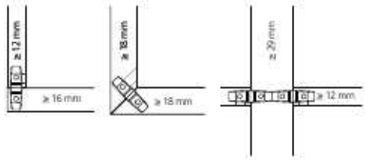
* Double cut with 4 mm cutter and spacer
Single cut with 8 mm cutter Art. No. 132108

## Function




## Technical data

**Joining methods**




| | | | |
|---|---|---|---|
| Size | 66 × 29 × 8 mm | | |
| Cutter | Ø 100 × 8 × Ø 22 mm | | |
| Material connector | Fiberglass reinforced plastic | | |
| Material of lever | Zinc die cast | | |
| Screw | Panhead 3 × 16 mm | | |
| Installation tolerance | Long. ± 1.0 mm | | |
| Clamping force (N)<br>Up to | MDF<br>600[1] | Particle board<br>600[1] | Beech<br>900[1] |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. | | |

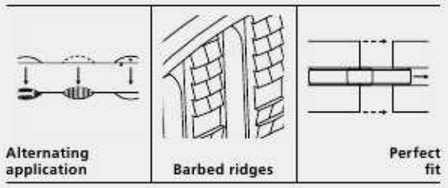
See **PAGE 112** for technical specifications | [1] See comment on load limits on **PAGE 195**

# K20

The clamping element, which holds the workpiece in position



## Features




K20 is a clamping element and can be used with any Lamello biscuit joiner. K20 has barbed ridges on each side of the connector which anchor themsleves into the 4 mm groove.

The clamping biscuit is ideal for difficult to clamp workpieces such as fillers or covers and is able to hold workpieces in the correct position until the adhesive is dry.

The combination with the original wood biscuits size 20 results in a joint with high strength.



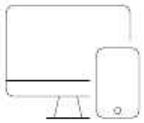


## Articles



| **K20** | Art. No. |
|---|---|
| 80 pieces | **145001** |
| 250 pieces | **145000** |

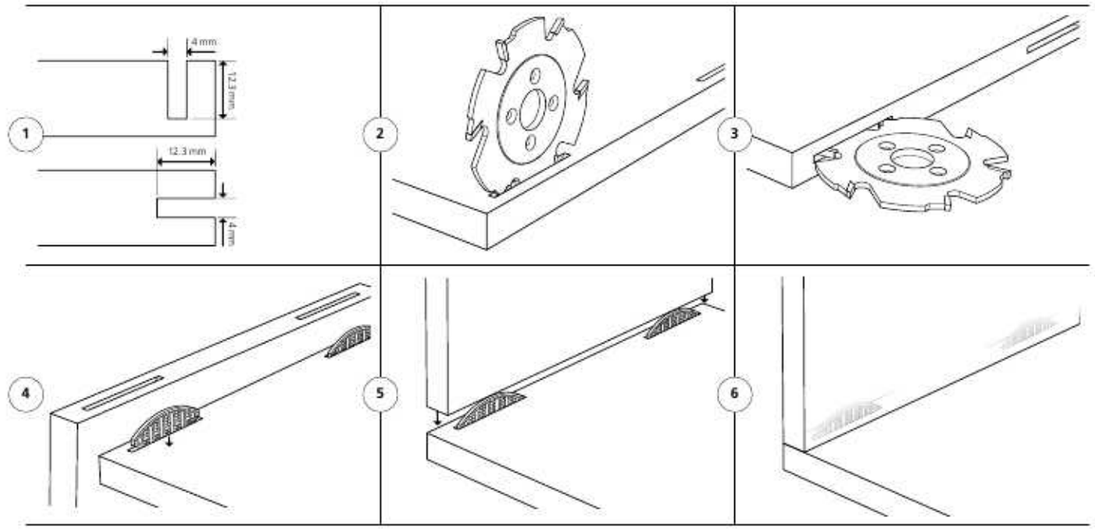
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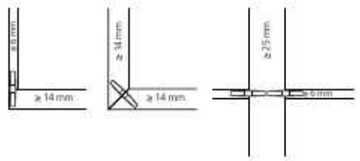


## Function




## Technical data

**Joining methods**




| | |
|---|---|
| Size | 60 × 24 × 4.5 mm |
| Cutter | Ø 100 × 4 × Ø 22 mm |
| Material connector | Plastic |
| Installation tolerance | Long. ± 1.0 mm/radial ± 1.0 mm |
| Clamping force (N) | Depending on the adhesive |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. |

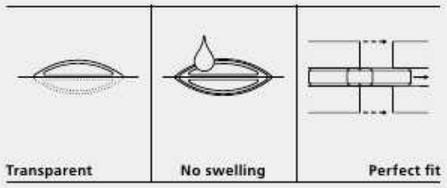
See **PAGE 113** for technical specifications

# C20/C10

The transparent element



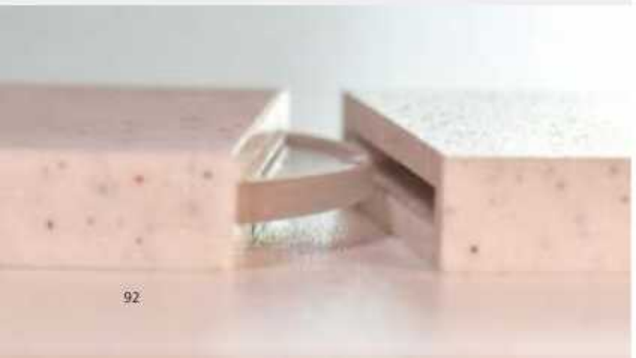
## Features



**Transparent** | **No swelling** | **Perfect fit**

C10 and C20 plastic biscuits are the proven joining solution for mineral composite materials such as Corian, Varicor.

The white transparent plastic ensures that the connectors do not show through thin materials. The specific adhesive for composites can be used for the joints as well as for the biscuits. Since the C10 and C20 do not swell, these biscuits are also suitable for outdoor or wet areas. The sizes 10/20 match the sizes of the original wood biscuit.





## Articles

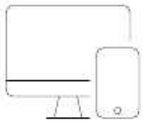


| **C20** | Art. No. |
|---|---|
| 250 pieces | **145010** |



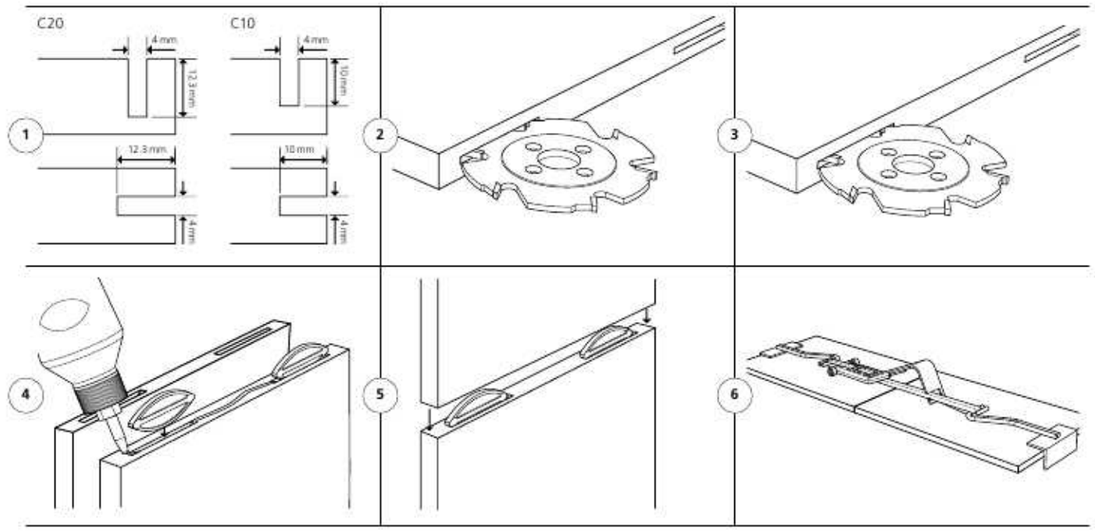
| **C10** | Art. No. |
|---|---|
| 300 pieces | **145012** |

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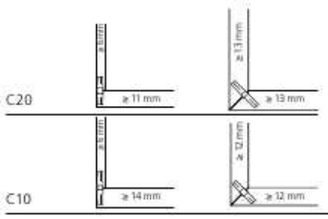
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




| | |
|---|---|
| Size C20 | 60 × 23 × 4 mm |
| Size C10 | 53 × 19 × 4 mm |
| Cutter | Ø 100 × 4 × Ø 22 mm |
| Material connector | Plastic |
| Installation tolerance | Long. ± 1.0 mm/radial ± 1.0 mm |
| Clamping force (N) | Depending on the adhesive |
| Material range | Mineral material panels (e.g. Corian) |

See **PAGE 111** for technical specifications

# Simplex

Detachable slide-in connector




## Features



| Detachable | Symmetrical | Perfect fit |
|---|---|---|

Simplex is a detachable slide-in connector in two-parts for dismountable constructions and can be used with any Lamello biscuit joiner. Simplex is inserted into the 4 mm groove and anchored with PUR adhesive. The connector has a stop on one side and can be slid-in and removed again.

Simplex is ideal for repeated insertion and removal of a workpiece, e.g. an inspection cover, a filler, for detachable constructions or as a glueing aid.





## Articles



| **Simplex** | Art. No. |
|---|---|
| 50 pairs | **166101** |
| 100 pairs | **166100** |

## Accessories

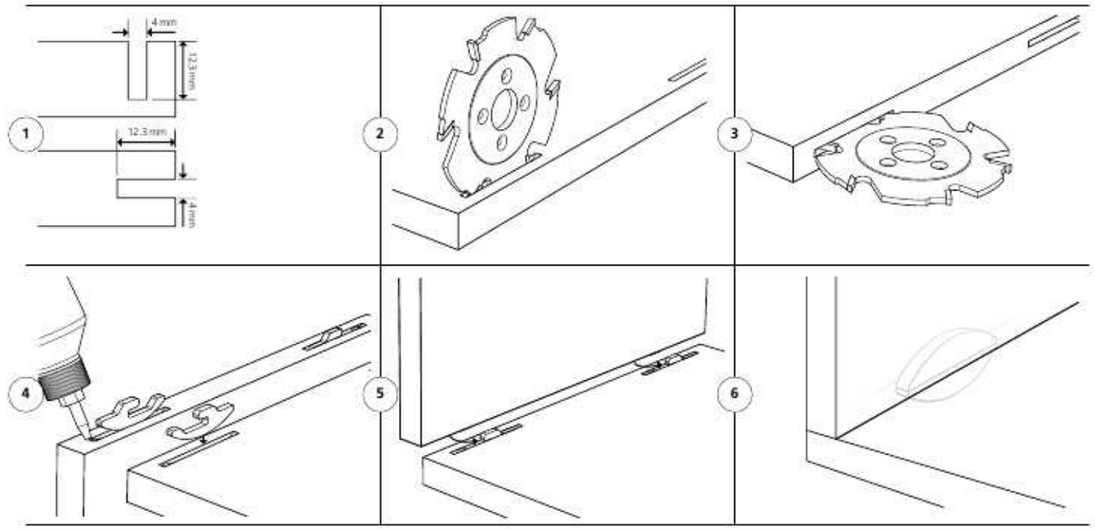


| **Simplex inserting tool** | Art. No. |
|---|---|
| For accurate positioning of Simplex | **166110** |

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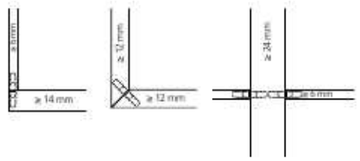
Experience the connector live and receive comprehensive product information!

## Function




## Technical data

**Joining methods**




| | |
|---|---|
| Size | 54 × 23 × 4.1 mm |
| Cutter | Ø 100 × 4 × Ø 22 mm |
| Material connector | Aluminium |
| Installation tolerance | Long. ± 0.5 mm |
| Clamping force (N) | Depending on the adhesive |
| Material range | Particle board, MDF, plywood, softwood, hardwood etc. |

See **PAGE 112** for technical specifications

# Minicol

The all purpose glue applicator





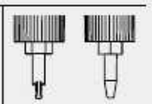
## Features



**Glue application on the sides**



**Immediate use**



**Versatile nozzles**

Minicol is a universal glue applicator and the ideal solution for applying glue in 4 mm grooves.

Unlike with a glue bottle, the glue exits the nozzle on the sides. Therefore glue is applied to the groove sides instead of the groove bottom, resulting in better distribution and a more stable joint.

As the glue applicators are positioned with the nozzles facing downwards in the wooden base, the glue leaves the nozzle immediately and drying out is prevented. In addition to the plastic nozzle, a metal nozzle for biscuit grooves and a pointed nozzle are also available.

## Articles



| **Minicol glue applicator** | Art. No. |
|---|---|
| With plastic nozzle<br>for biscuit grooves | **175500** |
| With metal nozzle<br>for biscuit grooves | **175550** |

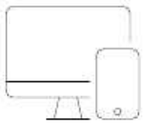


| **Minicol pointed nozzle** | Art. No. |
|---|---|
| Plastic nozzle | **335522** |



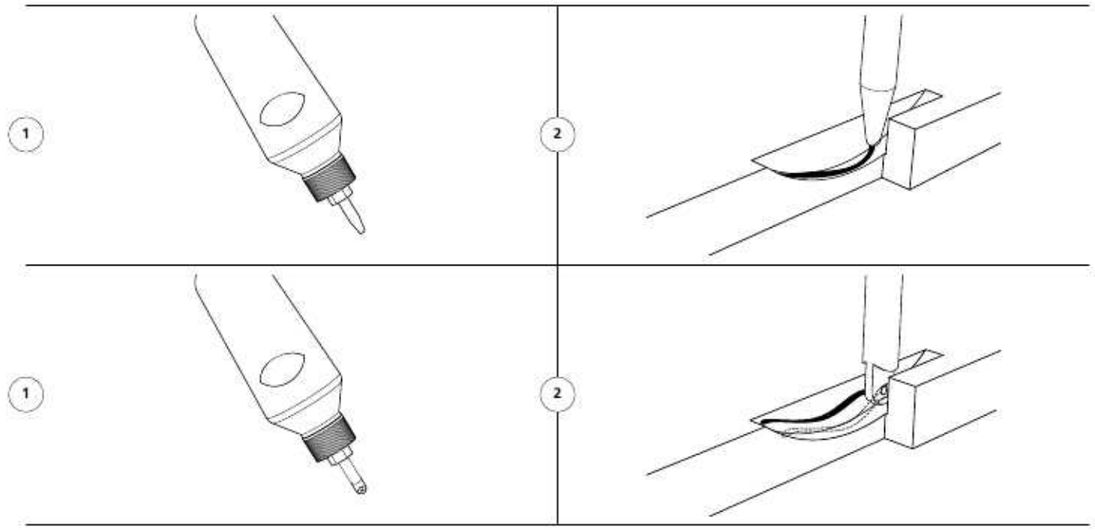
| **Minicol nozzles for biscuit grooves** | Art. No. |
|---|---|
| Metal nozzle | **285512** |
| Metal nozzle for biscuits size H9 | **285509** |
| Plastic nozzle | **335511** |

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## Function




## Technical data

| | | |
|---|---|---|
| Dimension | 100 × 100 × 230 mm | |
| Volume | 300 ml | |
| Material | Base | Maple |
| | Bottle | Plastic |
| | Nozzle | Metal/Plastic |

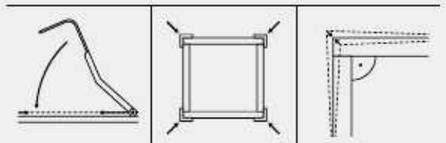
# Clamping set

Clamping system for cabinets





## Features



| Easy clamping | Even pressure distribution | Correct angle |
|---|---|---|

Clamping set is a system for glueing cabinets and various other components in furniture production and is an addition to the Lamello System. The clamping set consists of profile sections to protect the edges, 8 meter long straps with tensioners and two tension hooks. Unlike with screw clamps, the pressure distribution is always uniform, which means furniture is automatically clamped at right angles regardless of whether the panels are glued in a butt or mitre joint.

Clamping set is ideal for drawers,cabinets, frames or wall and floor panels.

## Articles



| **Clamping set** | | Art. No. |
|---|---|---|
| 20 cm | 1 piece of clamps | **175021** |
| | 8 m strap | |
| | 4 pieces profile sections 20 m | |
| 60 cm | 2 pieces of clamps | **175020** |
| | 2 pieces 8 m straps | |
| | 4 pieces profile sections 60 cm | |
| | 2 pieces tension hooks | |

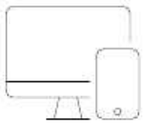


| **Tension hooks** | Art. No. |
|---|---|
| 2 pieces | **175200** |



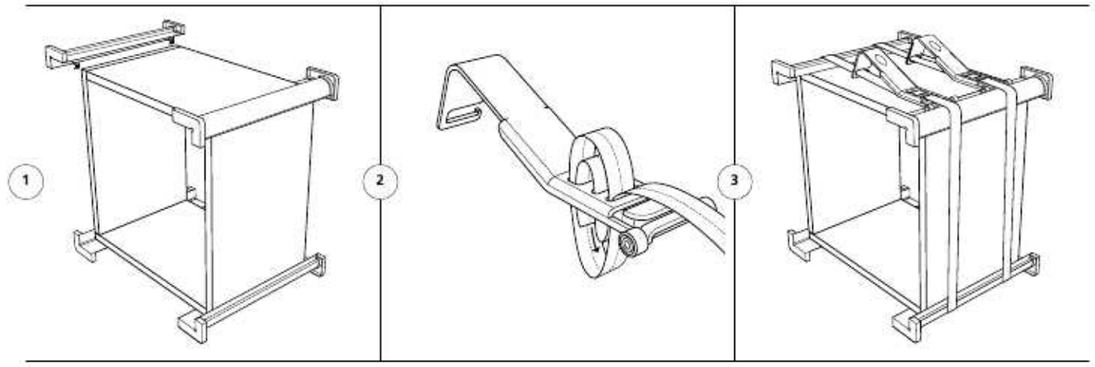
| **Profile sections** | Art. No. |
|---|---|
| 4 pieces, length 12 cm | **175401** |
| 4 pieces, length 40 cm | **175402** |
| 4 pieces, length 60 cm | **175403** |

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## Function




## Technical data

| | | |
|---|---|---|
| Min. workpiece length | 150 mm | |
| Material | Aluminium protectors | Anodised aluminium |
| | Polyester belt for clamps | Polyester |
| | Clamps/Tension hooks | Metal powder-coated |