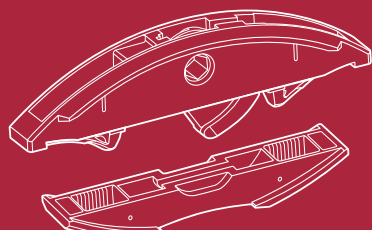
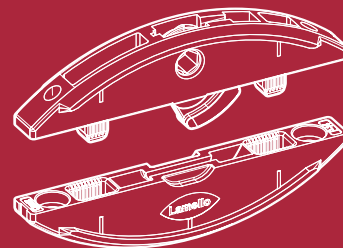
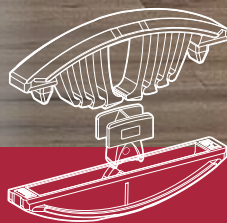
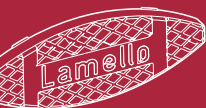


**Lamello**



**Catalogue 25/26**

Every connection counts



## Lamello connects

In the world of joining technology, every joint is more than just a technical solution – it is an expression of precision, reliability and progress.

For more than half a century, we have been passionate about developing tools and systems that complete your unique projects and support processes efficiently and sustainably. We want to give you the freedom to realise your ideas – without compromise.

Discover the latest innovations in our catalogue and be inspired by the possibilities of our products.

Together, we create joints that last for generations.



Marco Schweizer  
Group CEO




Susanne Affolter-Steiner  
Owner and Chairperson of the Board of Directors







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The time-saving joining system with form-locking anchoring	


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# People at the heart

These values connect us:

## Together

We support each other, communicate respectfully on an equal footing, give each other undivided attention and use the diversity of our shared creativity – we are one team.



## Reliable

We are committed to consistent quality; we respect our partners' time with consistent punctuality, keep our promises, actively inform and create trust across borders.

## Transparent

We act according to clear guidelines and expectations, have comprehensible decision-making processes, communicate openly and honestly and view feedback as a valuable asset.

## Customer-focused

We create the best possible customer experiences, spend a lot of time with users, act quickly and effectively on customer feedback, share our experiences with the community, behave loyally and anticipate future needs.



## Responsible

We take full responsibility for our actions and are committed to sustainability towards the environment, people and business. Ethical behaviour is the norm and we are committed to the common good, stand by our decisions and are willing to learn from them.

## Inspiring

We live creativity and innovation, motivate each other, promote personal training and individual development, create global standards and give meaning to our stories.



# Our promise

Your unique piece of furniture – perfectly connected



- Endless design possibilities for timeless aesthetics
- Time-saving and reliable
- From experts to experts
- Our passion for your craft
- With us, your furniture connects generations

Interior  
fitting



Shelf  
construction



Furniture  
manufacturing



Inspired by the roots of our global connector legends, we will continue to strive for the next innovation "made in Switzerland".

Furniture in series – without compromise



- Unlimited design freedom for your angles and mitres
- Differentiate your collections with unique designs
- Reliably pre-assembled, optimally disassembled and compactly stacked – simply ingenious
- Combine serial manufacturing and innovation with us

Kitchen  
manufacturing



Bathroom  
furniture



Shop  
fitting



Office  
furniture





# Added value

This is what you can expect from us.

## 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.



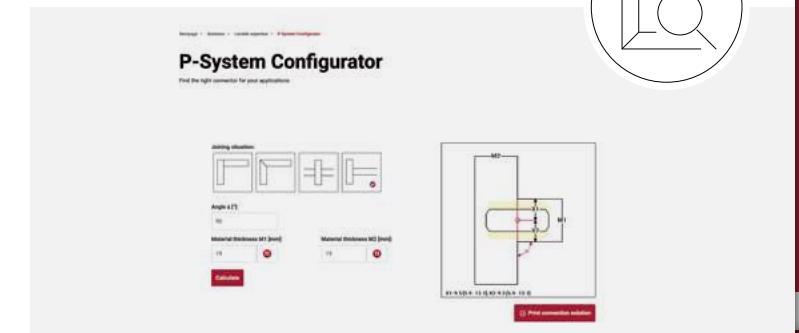
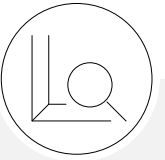
## Our services

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.



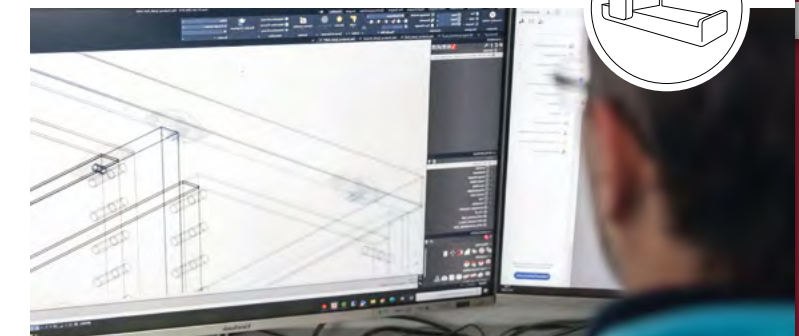
## Qualified sales partners

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.



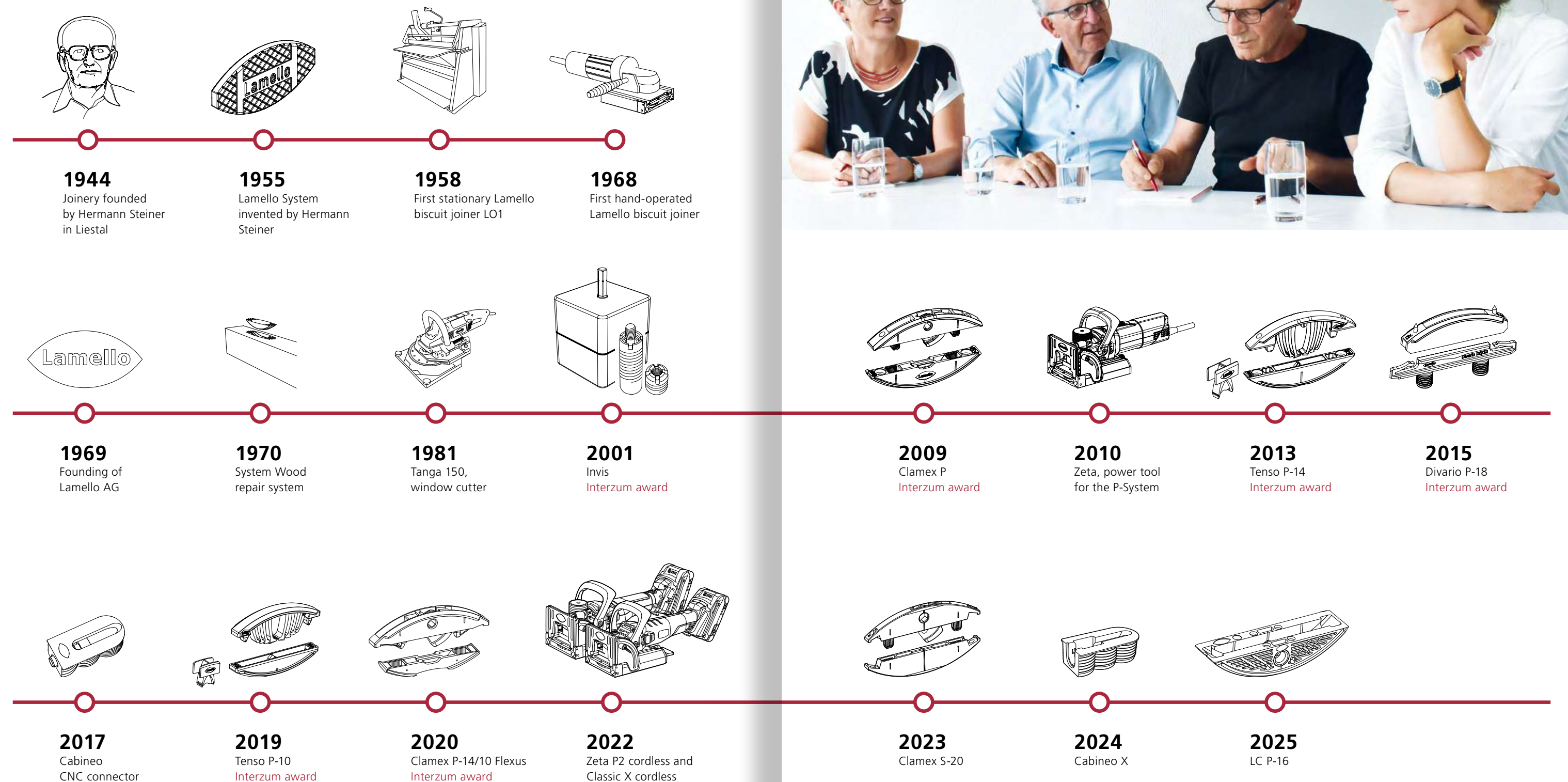
## Competent planning and machining partners

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.





# Our roots: Looking back. Thinking ahead.



We are proud of our more than 50-year history. At the same time, we are looking ahead and continuously developing. Since the beginning of Lamello's history, the pursuit of new insights, continuous improvements and system solutions have been at the heart of Lamello.

Hermann Steiner is the founder of Lamello, who launched his revolutionary idea, the wooden biscuit, in 1955. Every milestone starts with an idea. However, influential or even revolutionary ideas don't just happen.



# Innovation

Flexibility. Productivity. Creativity.  
Every connection counts



## Combination of many years of expertise and intensive development work

Since the beginning of Lamello's history, the pursuit of new insights, continuous improvements and system solutions has been at the heart of Lamello.

It is only through many years of practical knowledge and intensive development work 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 to this day. We have built up our expertise over the course of more than 60 years. This knowledge is complemented by a large dose of curiosity and a close relationship with our customers.

## A pioneer of innovation

Our products are the result of continuous innovation and enable our customers to work more creatively, flexibly, productively and efficiently. As pioneers, we strive to overcome technological limits – over 300 patents and industrial property rights are the result of this.



## Multiple awards

The Interzum Awards and national innovation awards are a valuable recognition and an incentive to continue moving forward. Our wooden biscuit even made it to the renowned Museum of Modern Art in New York for the exhibition "The Most Humble Innovations of the 20th Century".



## Revolutionary ideas, pioneering innovations

In 1955, Hermann Steiner invented the original wooden biscuit – a revolutionary idea. It all started with wood, but new materials are shaping the future. Lamello is opening a new era with the P-System connectors. The P-System groove enables quick assembly without the use of glue or screws.





# Sustainability

Beech wood from sustainable, locally managed forests is just the beginning



## At Lamello, we are committed to promoting a sustainable future

We source and use the raw material wood responsibly as a renewable resource. We also take a conscious approach to the use of other materials, as our goal is to continuously reduce the environmental impact of our products and production methods through innovative technologies and efficient processes.

We actively engage in our communities and support educational initiatives that raise awareness of sustainable practices. Through transparency in our communication and partnerships, we strive to help shape the standards in our industry. Together, we work to find the balance between economic success and environmental responsibility to preserve our planet for future generations.

At Lamello, we actively support specialist knowledge relating to Lamello products in the training and development of cabinetmakers. With our commitment, we want to take responsibility and make a valuable contribution to high-quality vocational training in the carpentry industry, because we are convinced that well-trained specialists are the foundation of our successful industry.

## Social responsibility and training at Lamello

Our employees are the key to our success, which is why we attach great importance to training and professional development. We work with workshops for people with disabilities to produce popular customer samples. We also promote cabinetmaking talent and support training through active participation and sponsorship.



## Sustainability and regionality: Production at our site in Bubendorf

We rely on beech wood (FSC) from the region and manufacture our products in Bubendorf. Our own wood chip heating system covers our heat requirements, saving over 300 tonnes of crude oil annually. Our long-lasting products conserve resources and avoid waste.



## Efficient production and sustainable future at Lamello

Our state-of-the-art manufacturing facilities optimise energy consumption and contribute to sustainability. Spare parts are available for up to 15 years to ensure the durability of our machines. Old machines are recycled in an environmentally friendly way and surplus energy is used to supply households with community heating.



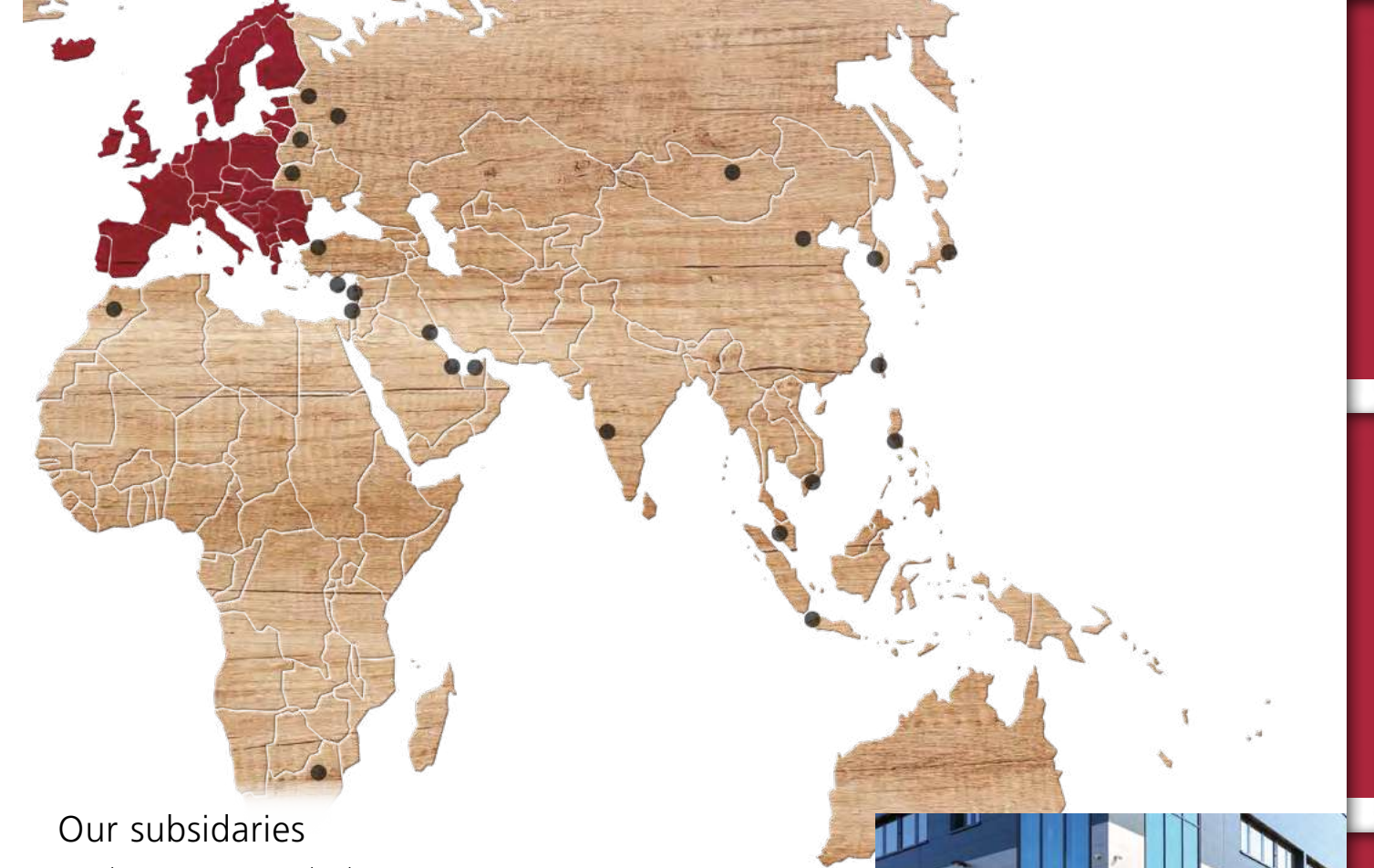


# Locations

Far-reaching. Close to home.  
We are there for you worldwide

## Global presence

Lamello has an international sales network consisting of four sales offices, representatives in over 65 countries and over 400 authorised sales partners.



## Our subsidiaries

From here, we support our local customers.

Grenzach-Wyhlen, Germany



Kruishoutem, Belgium | France | Netherlands



Angera, Italy



Feldkirch, Austria



## Our head office in Bubendorf, Switzerland

Around 110 employees work at the head office in Bubendorf. Every day, we ensure that our customers receive first-class advice, processes run smoothly and new innovations are created.



## Our plastic injection factory in Bubendorf, Switzerland

Lamello's plastic injection factory is located near our head office. Our plastic connectors are manufactured in-house with high precision and years of experience. Lamello's quality promise is perfectly fulfilled by the safety standards.



## Our logistics centre in the tri-border region, Germany

Our modern and sustainable logistics centre is located in Grenzach-Wyhlen, Germany. This tactically chosen location offers a great amount of space and enables smooth international shipping to Germany, Austria, Belgium, France, Luxembourg and Italy.



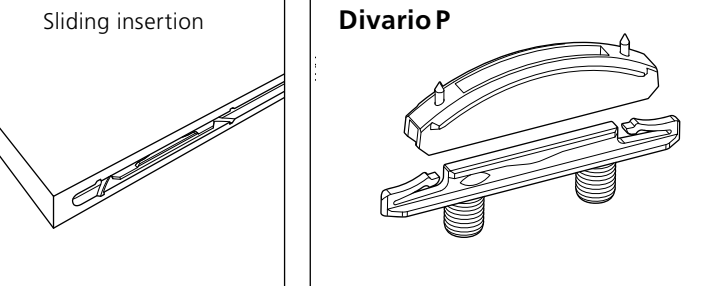
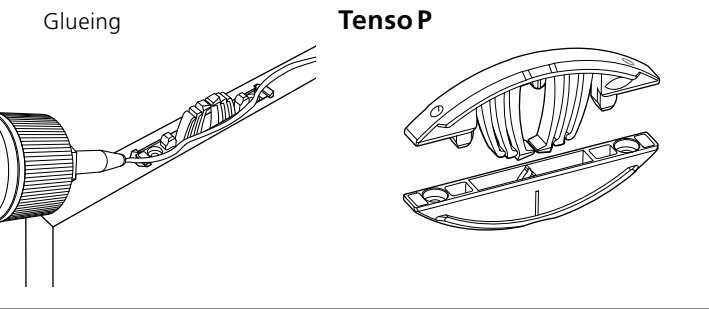
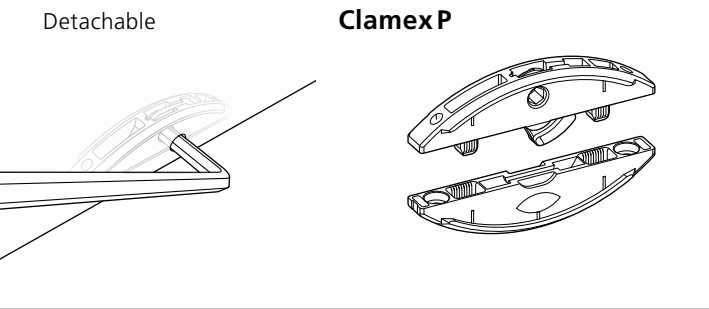


# Systems

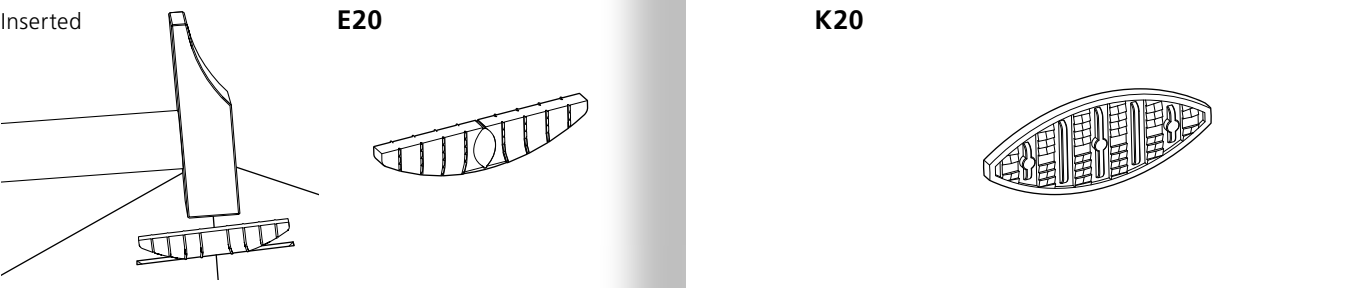
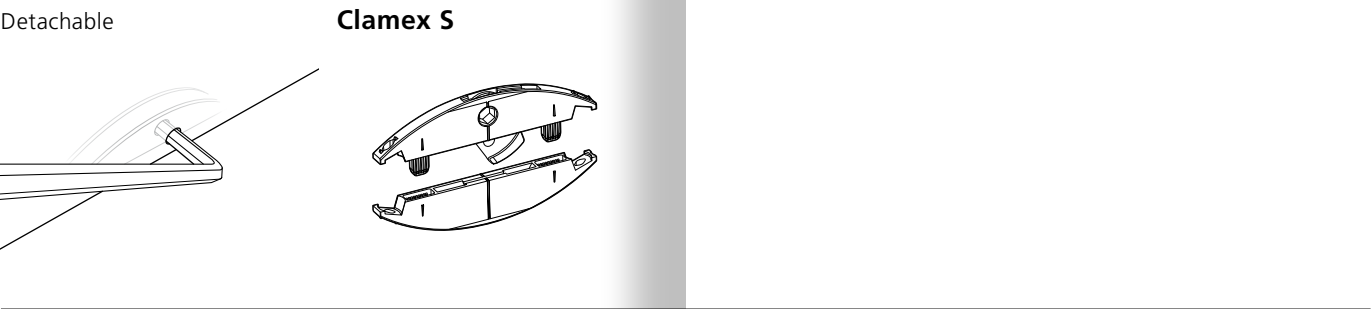
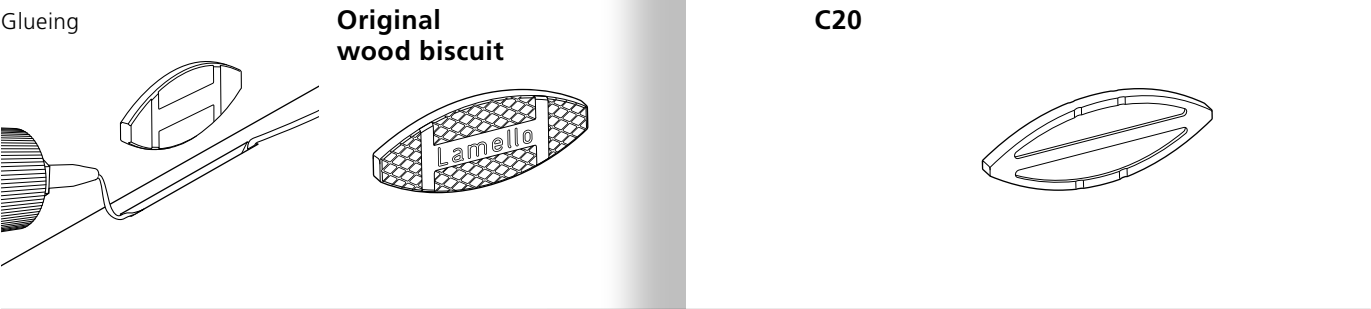
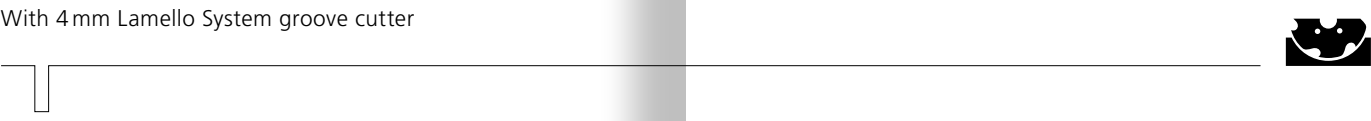
- P-System
- Lamello System
- Drilling System

Overview

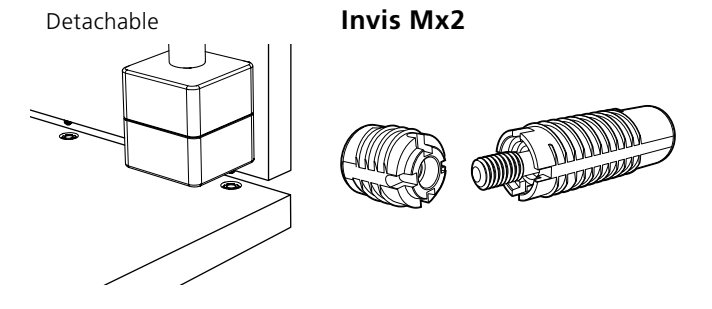
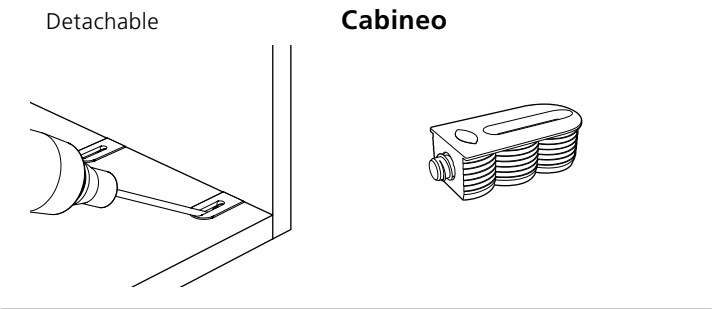
P-System	
Features	Connector



Lamello System	
Features	Connector



Drilling System	
Features	Connector



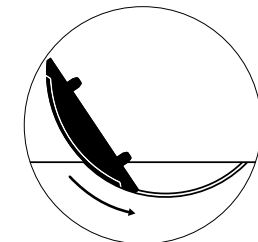


# P-System

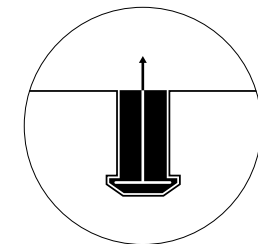
The time-saving joining system  
with form-locking anchoring



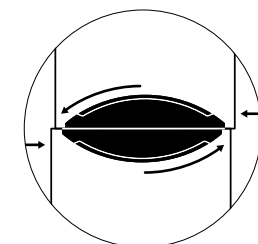
## Features



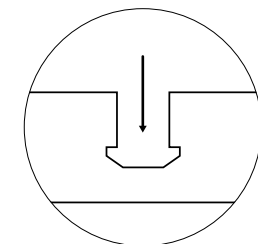
**Fast installation**  
Inserting instead of  
screwing or glueing



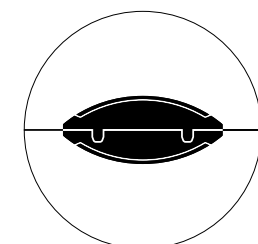
**Strong**  
Form-locking  
anchorage across  
large surface areas



**Lateral tolerance**  
Perfect, flush  
alignment of both  
workpieces



**Shallow depth**  
Minimal cutting  
depth with maximum  
tensile strength



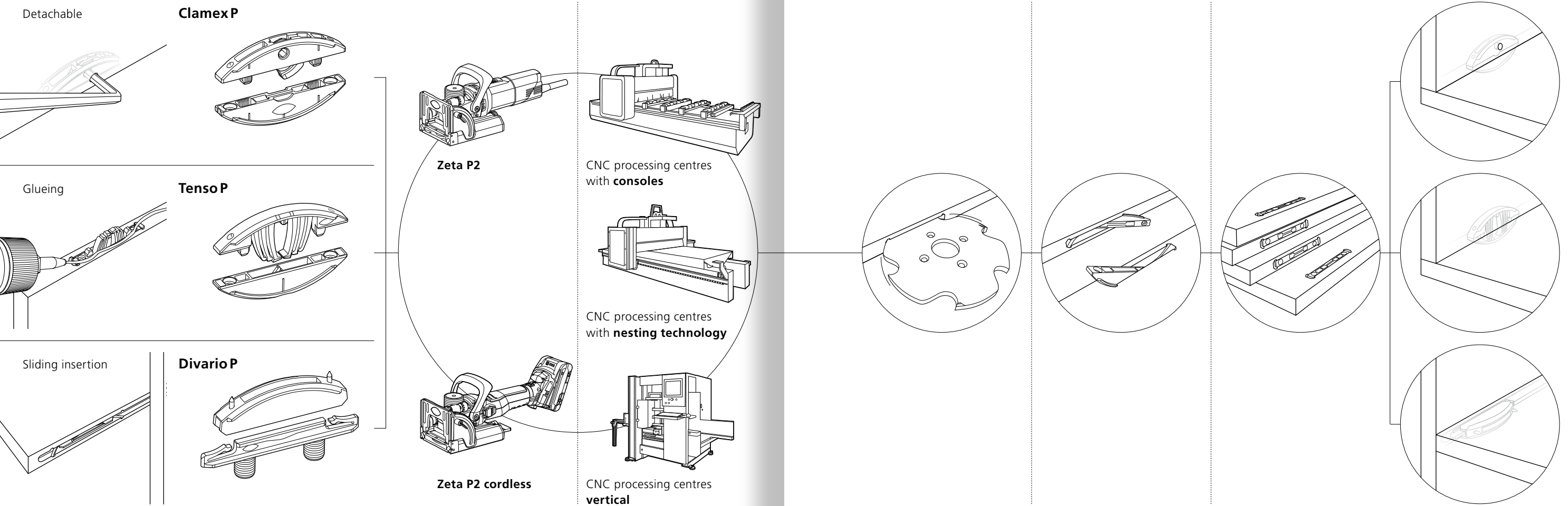
**No twisting**  
The positioning  
pins prevent  
twisting without  
additional dowels



# P-System

Overview

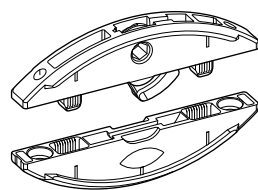
Features	Connector	Machines		Sequence			
		Power tool	CNC machines	1 Cut	2 Insert the connector	3 Deliver flat pack	4 Connect the workpieces





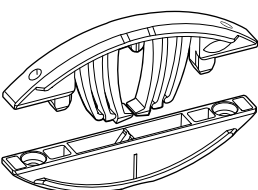
# Connectors

Features overview



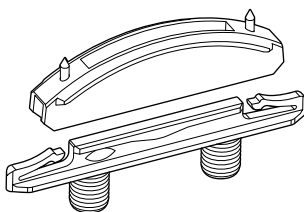
## Clamex P

Detachable furniture connector



## Tenso P

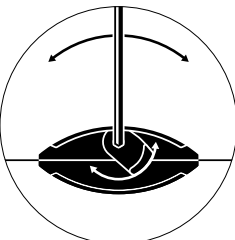
Self-clamping connector for glueing



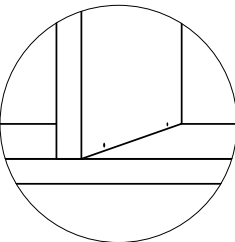
## Divario P

Self-clamping, invisible connector for slide insertion

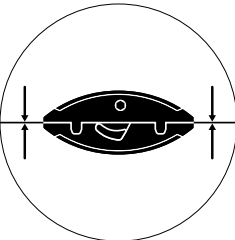
### Features



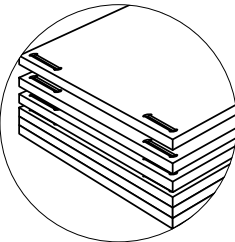
**Detachable**  
Open the connection time and time again with the rotating lever



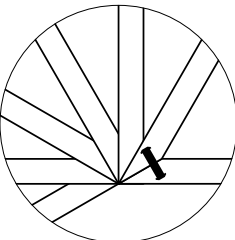
**Aesthetic**  
The small, hardly visible opening ( $\varnothing = 6\text{ mm}$ ) serves to close and open the connector



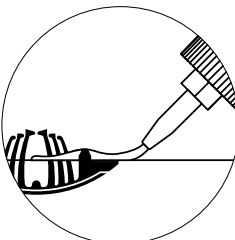
**High clamping force**  
Clamp and glue workpieces at any angle



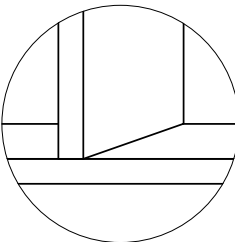
**Stackable**  
Workpieces with pre-installed P-System connectors are stackable for storage and transport



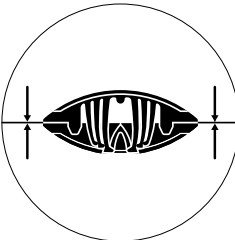
**Versatile**  
The shallow element depth allows for mitres from  $22.5^\circ - 180^\circ$ , surface, corner and dividing panel connections



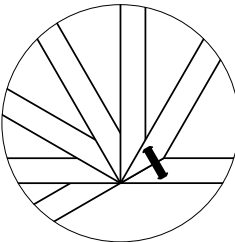
**Glueing**  
Fixed joints of two workpieces



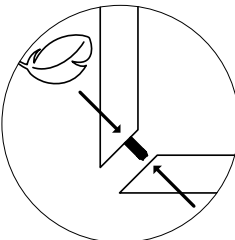
**Invisible**  
No visible connector



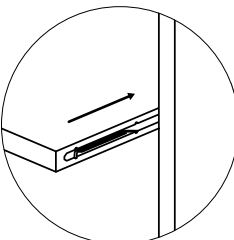
**High clamping force**  
Allows for perfect alignment and clamps the workpieces ~ 15 kg or 30 lb



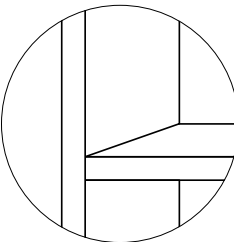
**Versatile**  
Simple glueing of mitre joints



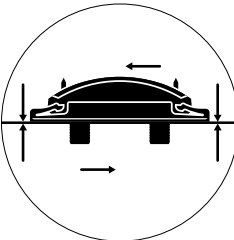
**Lower assembly force**  
In combination with the pretension clip, only a short force impulse is required to snap it into place



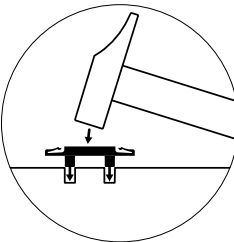
**Sliding insertion**  
Insertion between two fixed sides or shelves via a guiding groove



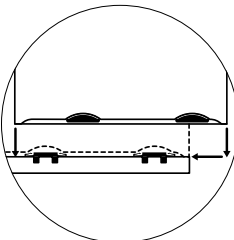
**Invisible**  
Guiding groove covers the connectors



**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

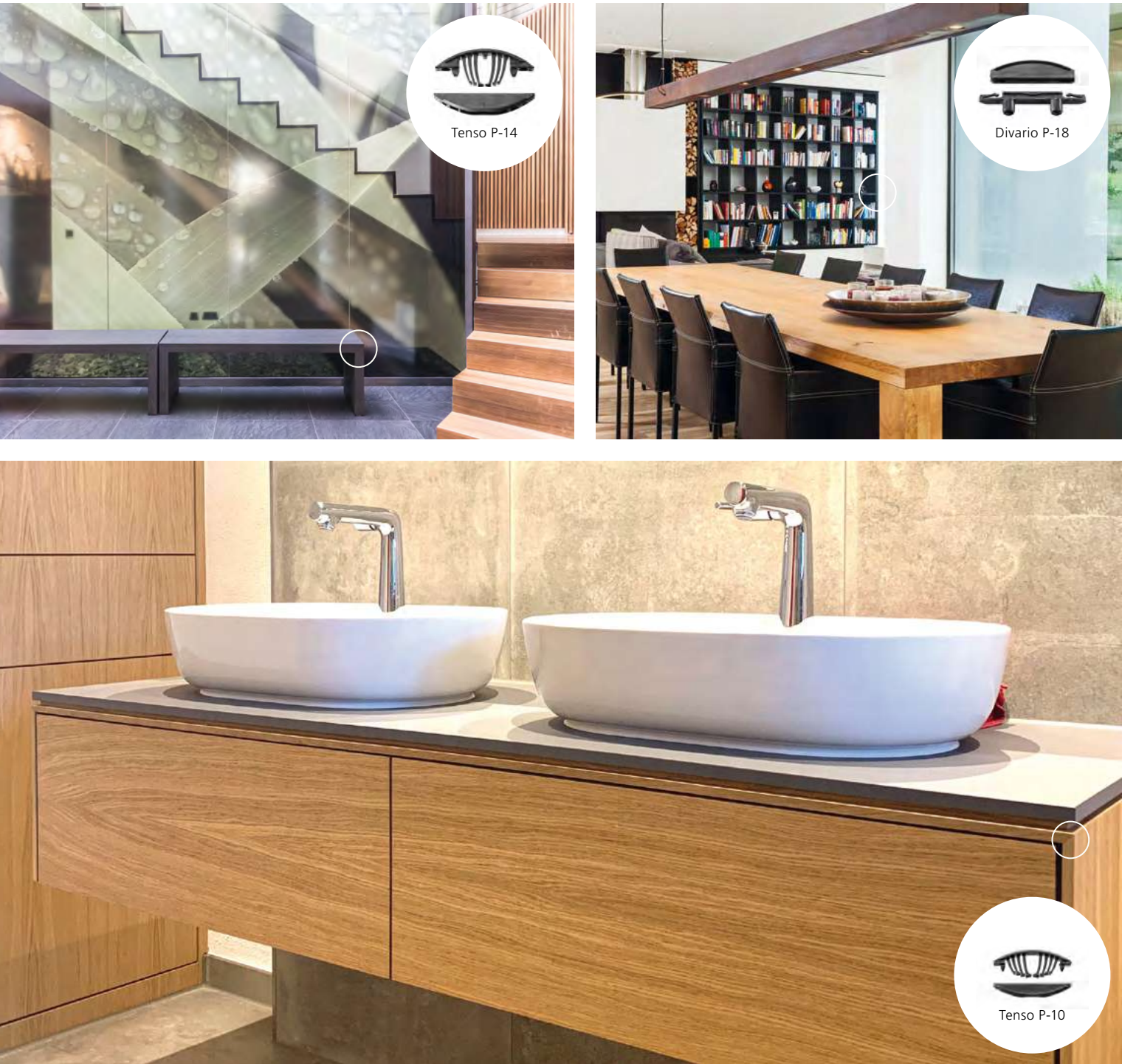




# P-System

Applications

## Furniture manufacturing



## Interior fitting





# P-System

Applications

Kitchen manufacturing



Commercial joinery



Shop fitting



# Clamex P-14

Detachable furniture connector



## Features

Detachable	Aesthetic	Fast installation

- Detachable furniture connector, installed in seconds
- Aesthetic look with the hardly visible 6 mm access hole
- All-rounder for all angle and miter joints from 22.5° to 180°
- High clamping force for perfectly closed joints
- Ideal for open shelves, cupboards or wardrobes under sloping roofs

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.

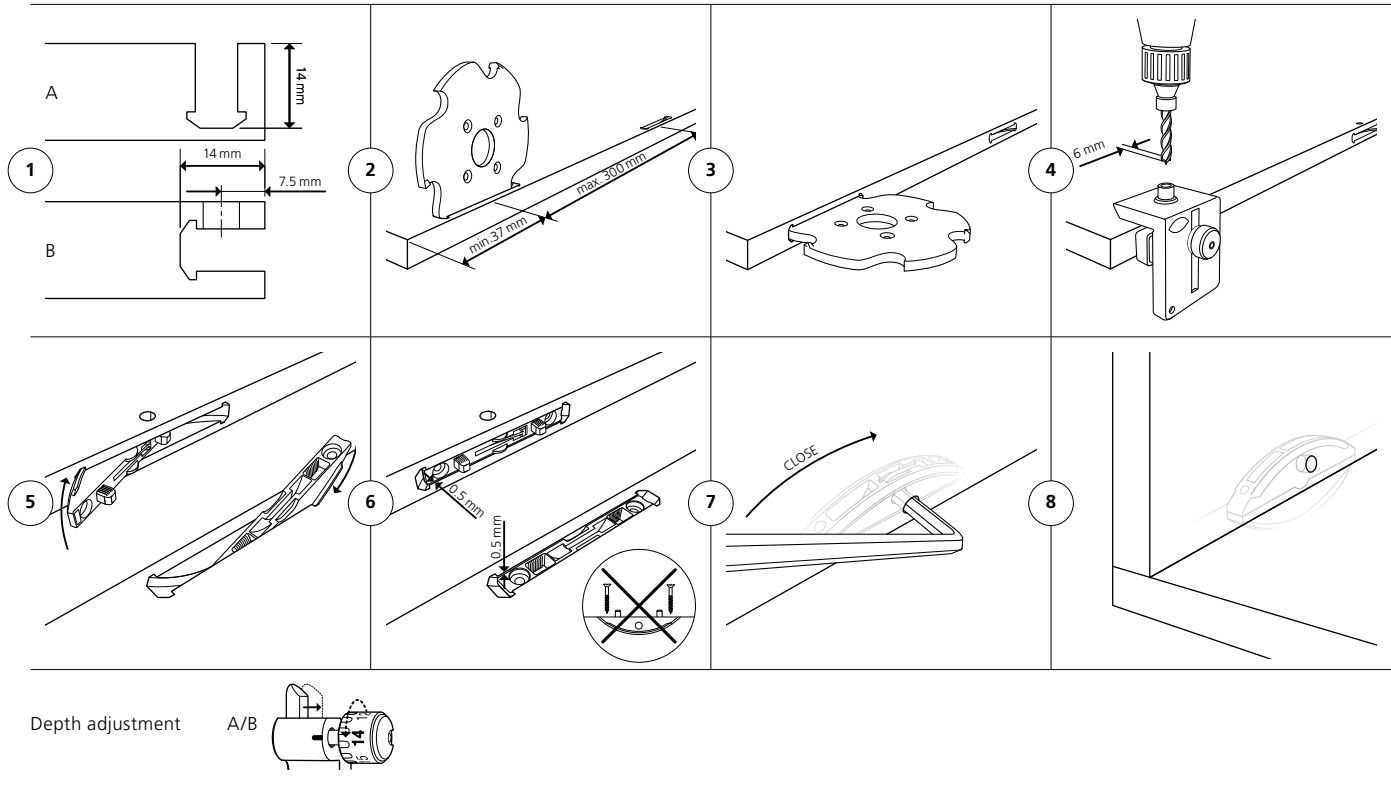
## Articles

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

Matching accessories starting on **PAGE 170**



## Installation



## 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 1210 <sup>1</sup>	Particle board 1070 <sup>1</sup>	Beech 1870 <sup>1</sup>
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 74** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 172–173**

<sup>1</sup> See comment on load limits on **PAGE 185**

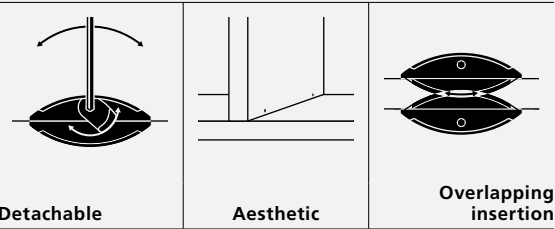


# Clamex P-14/10 Medius

Detachable connector for centre panels for materials from 16 mm thickness




## Features



- Detachable furniture connector, installed in seconds
- Supplement to Clamex P-14 for dividing panel connections from 16 mm
- Aesthetic look with the hardly visible 6 mm access hole
- High clamping force for perfectly closed joints
- Ideal for dividing panel connections in sideboards, shelves or cupboards

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.

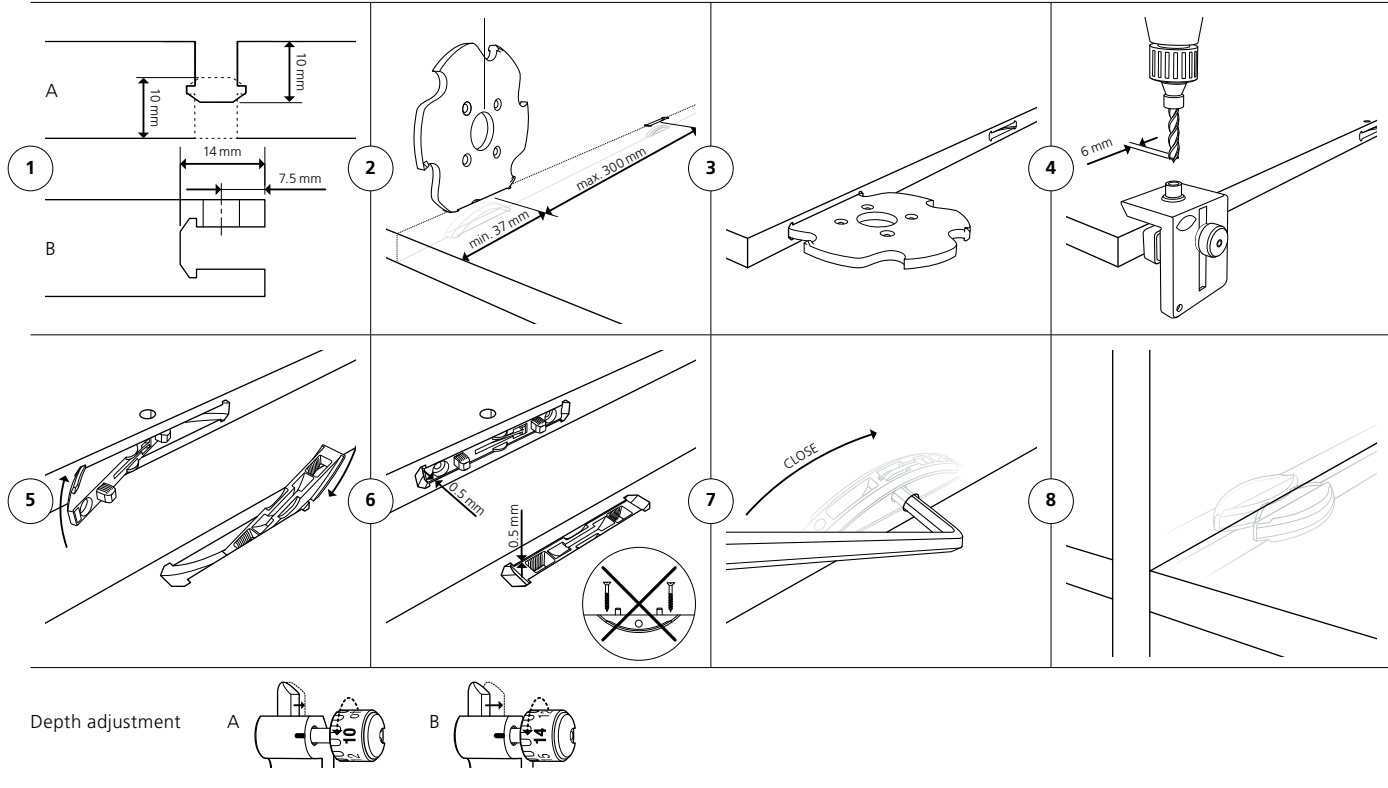
## Articles

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

Matching accessories starting on **PAGE 170**



## Installation



## Technical data

Joining methods	Size	64 × 13.5 × 9.7 mm 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) Up to	MDF 760 <sup>1</sup>	Particle board 680 <sup>1</sup>	Beech 1070 <sup>1</sup>
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 74** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 172–173**

<sup>1</sup> See comment on load limits on **PAGE 185**



# Clamex P-10

Detachable connector for materials from 12 mm thickness



## Features

Detachable	Aesthetic	Low cutting depth

- Detachable furniture connector, installed in seconds
- For miters from 15 mm and butt joints from 12 mm material thickness
- Aesthetic look with the hardly visible 6 mm access hole
- All-rounder for all angle and miter joints from 22.5° to 180°
- Ideal for thin materials, miters, wooden drawers, open shelves

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.

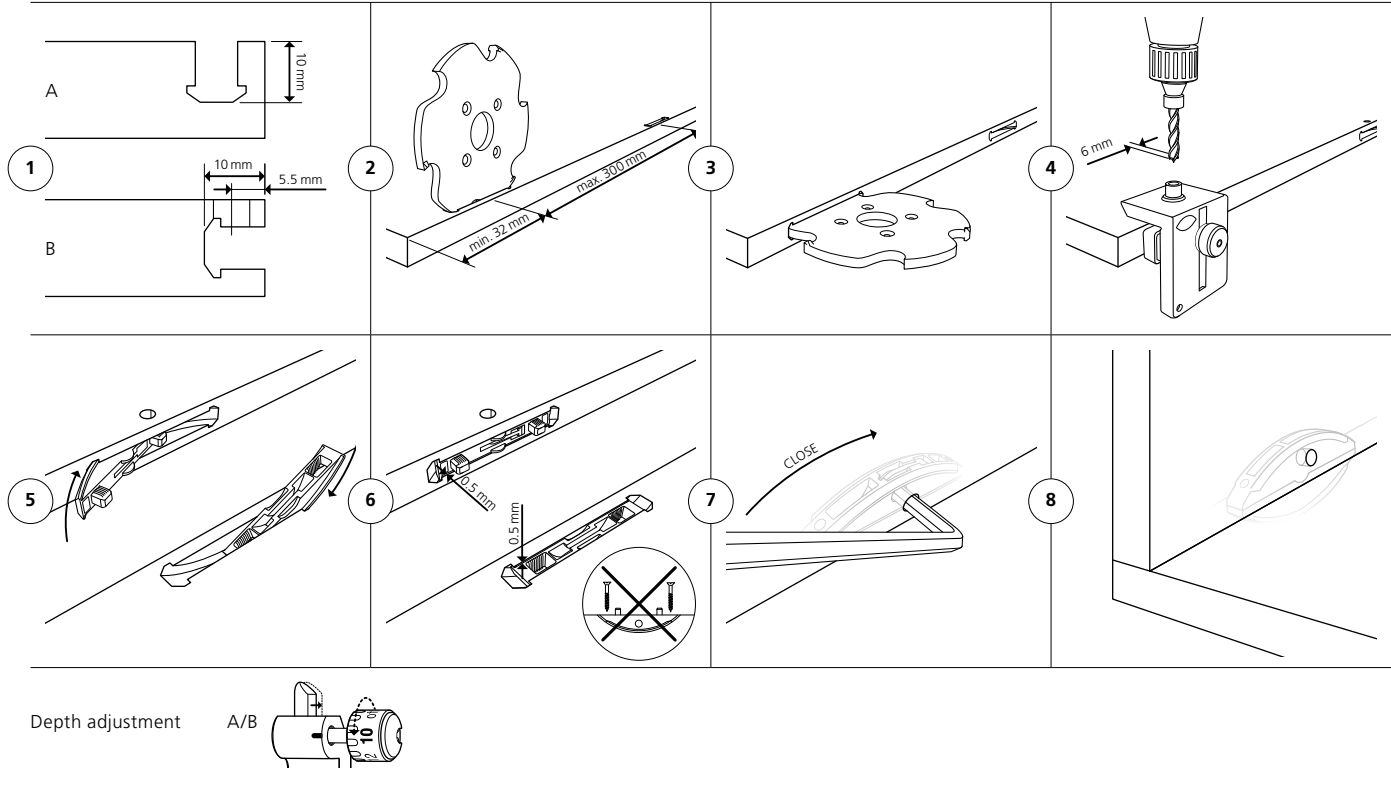
## Articles

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

Matching accessories starting on PAGE 170



## Installation



## 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 700 <sup>1</sup>	Particle board 540 <sup>1</sup>	Beech 900 <sup>1</sup>
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See PAGE 74 for technical specifications | 90° and 45° cover caps are available in a variety of colours PAGE 172–173

<sup>1</sup> See comment on load limits on PAGE 185

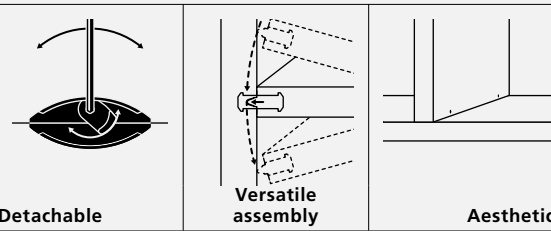


# Clamex P-14/10 Flexus

Detachable furniture connector with flexible positioning pins





## Features



- Detachable furniture connector, installed in seconds
- Flexible positioning pins for retrofitting shelves
- Aesthetic look with the hardly visible 6 mm access hole
- All-rounder for all angle and miter joints from 22.5° to 180°
- Ideal for furniture construction, sideboards, wine racks, inspection flaps

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.

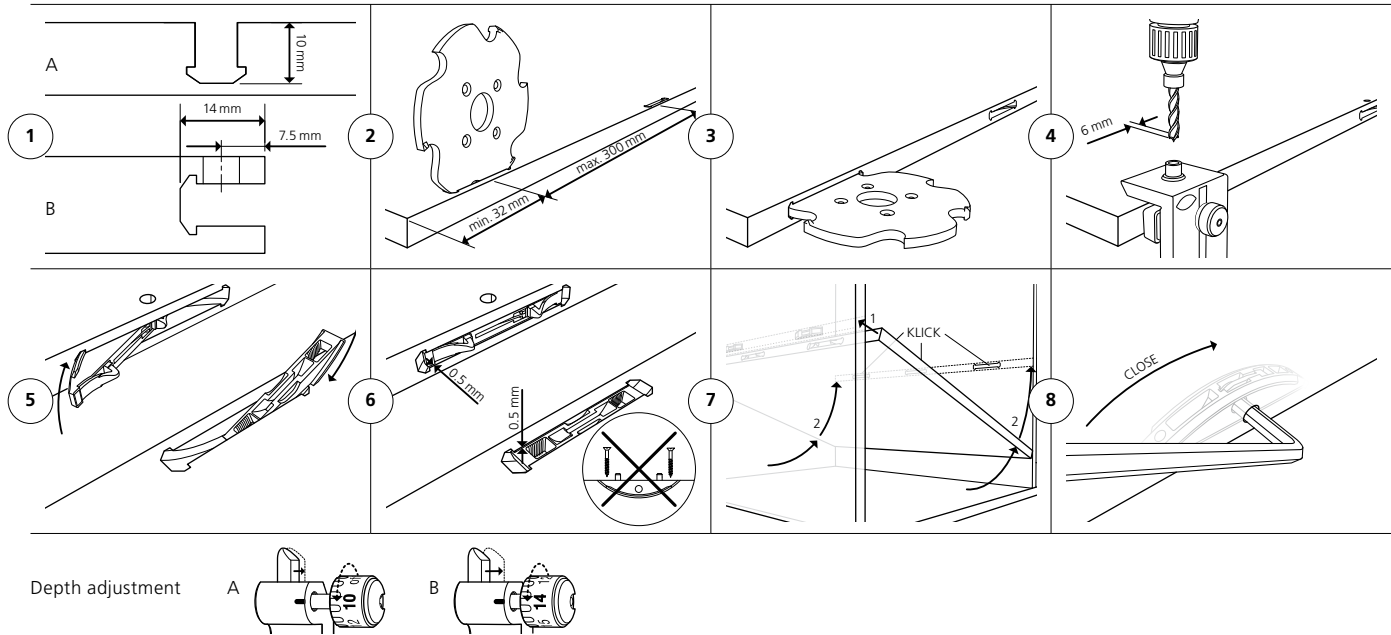
## Articles

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

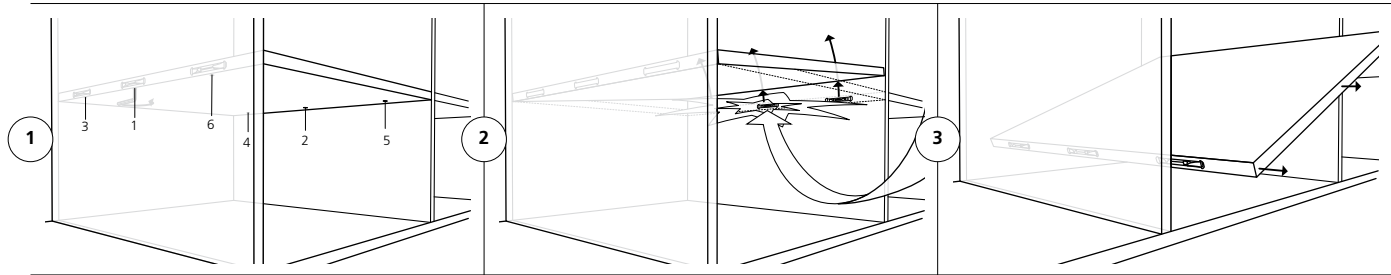
Matching accessories starting on PAGE 170



## Installation



## Shelf disassembly



## Technical data

Joining methods	Size	64 × 13.5 × 9.7 mm 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) Up to	MDF 790 <sup>1</sup>	Particle board 710 <sup>1</sup>	Beech 1190 <sup>1</sup>
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See PAGE 75 for technical specifications | 90° and 45° cover caps are available in a variety of colours PAGE 172–173

<sup>1</sup> See comment on load limits on PAGE 185



# Clamex P-14 CNC

Detachable furniture connector with precise alignment



## Features

Detachable	Aesthetic	Precise alignment

- Detachable furniture connector, installed in seconds
- CNC connector with automatic alignment for efficient assembly
- Aesthetic look with the hardly visible 6 mm access hole
- All-rounder for all angle and miter joints from 22.5° to 180°
- Ideal for furniture construction, especially for flat-pack furniture

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.

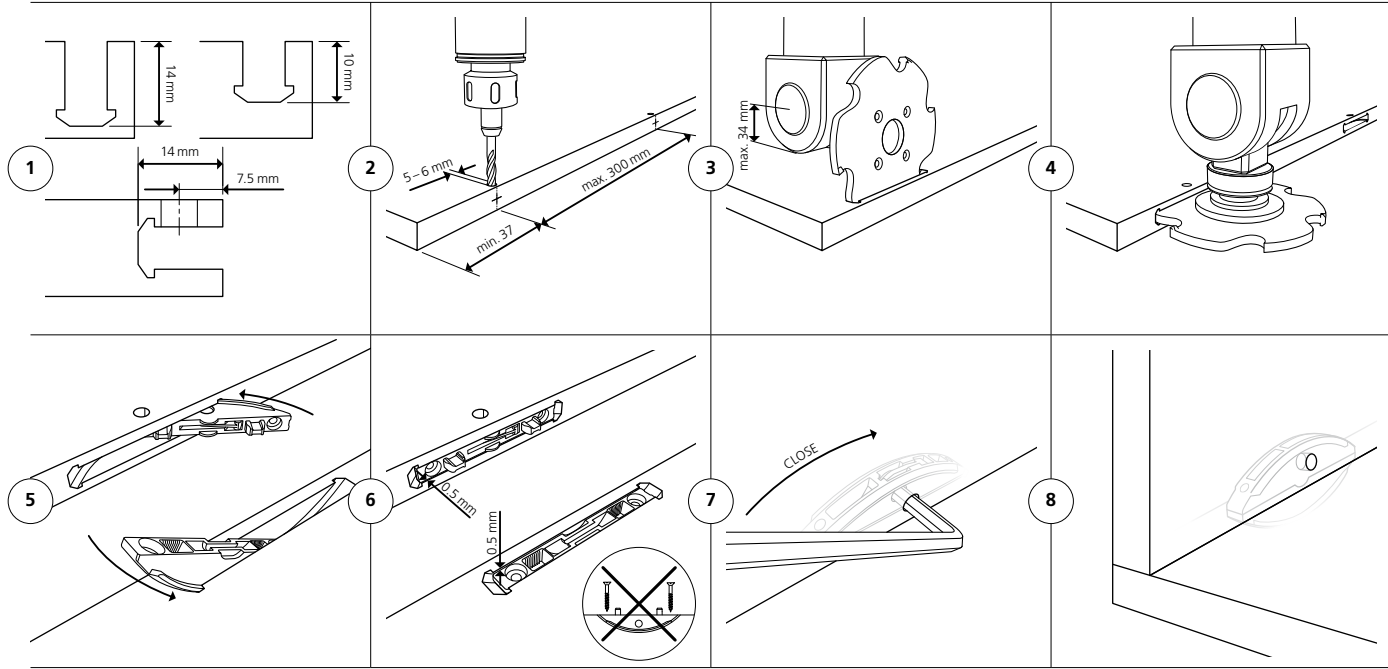
## Articles

	Art. No. <b>145388</b>
Clamex P-14 CNC element with lever, 2000 pieces	
	Art. No. <b>145339</b>
Clamex P-14 element without lever, 2000 pieces	
	Art. No. <b>145358</b>
Clamex P-10 element without lever, 2000 pieces	
	Art. No. <b>145369</b>
Clamex P-10 Medius element without lever, 2000 pieces	

Matching accessories starting on **PAGE 170**



## Installation



Version with CNC

## Technical data

<b>Joining methods</b>	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.

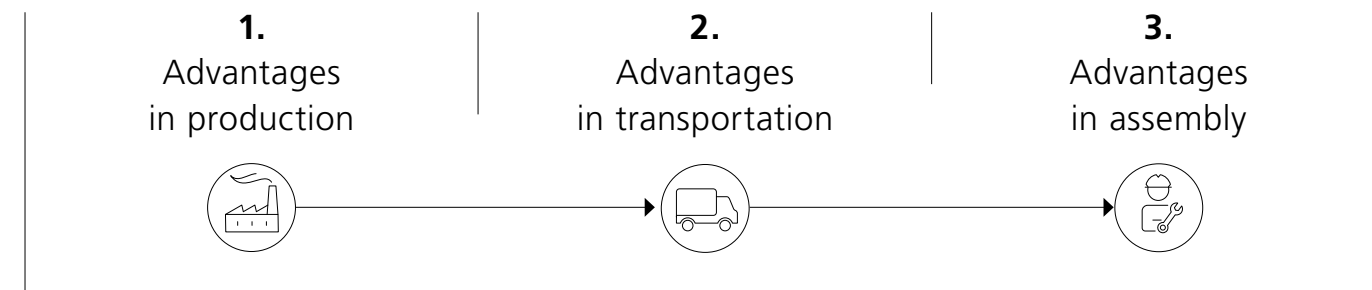
See **PAGE 75** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 172–173**

<sup>1</sup> See comment on load limits on **PAGE 185**



# Advantages of the Clamex P

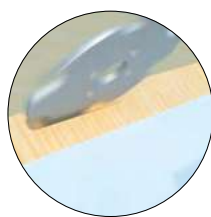
Detachable furniture connector



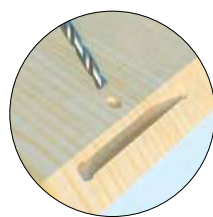
- Machining possible with Zeta P2 or CNC machinery
- Only one tool change from P-System cutter to 6 mm drill
- Same groove everywhere: whether corner connection, shelf, centre panel or mitres
- Consistently competent partners: from CAD to CAM and CNC

- 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

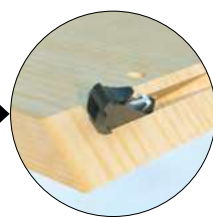
- Simple positioning of workpieces thanks to positioning pins
- Easy assembly with an Allen key
- Aesthetically small, barely visible hole ( $\varnothing = 6 \text{ mm}$ )
- Open the connection time and time again with the rotating lever
- Lateral tolerance perfect, flush alignment of both workpieces



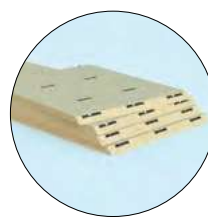
1. Machining with a Zeta P2 or CNC machine



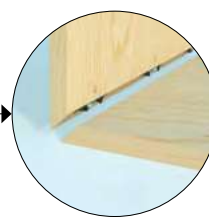
2. Only one tool change



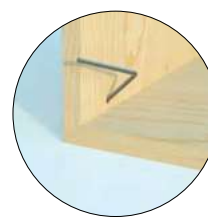
3. Tool-free connector installation



4. Flat pack delivery



5. Versatile for all angles and joining situations



6. Strong and detachable connection

*« The P-System saves us an enormous amount of time in production. Our fitters are big fans of Clamex and now they don't want to work with anything else. »*

Markus Fust, Managing Director,  
Fust Schreinerel AG, Wil, Switzerland



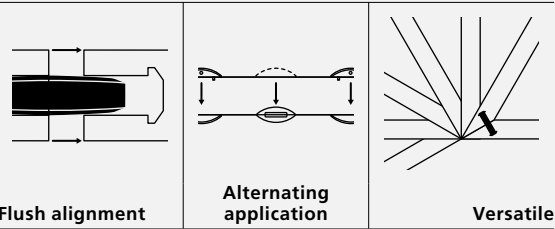


# Bisco P

Aligning element, suitable for the P-System groove




## Features




- Plastic element for Clamex P and Tenso P
- Align furniture parts flush together with Clamex P
- Before gluing with Tenso P, check furniture for quality control with Bisco P
- All angle and miter joints from 22.5° to 180°
- Bisco P-10 from material thickness 12 mm, Bisco P-14 from 16 mm

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

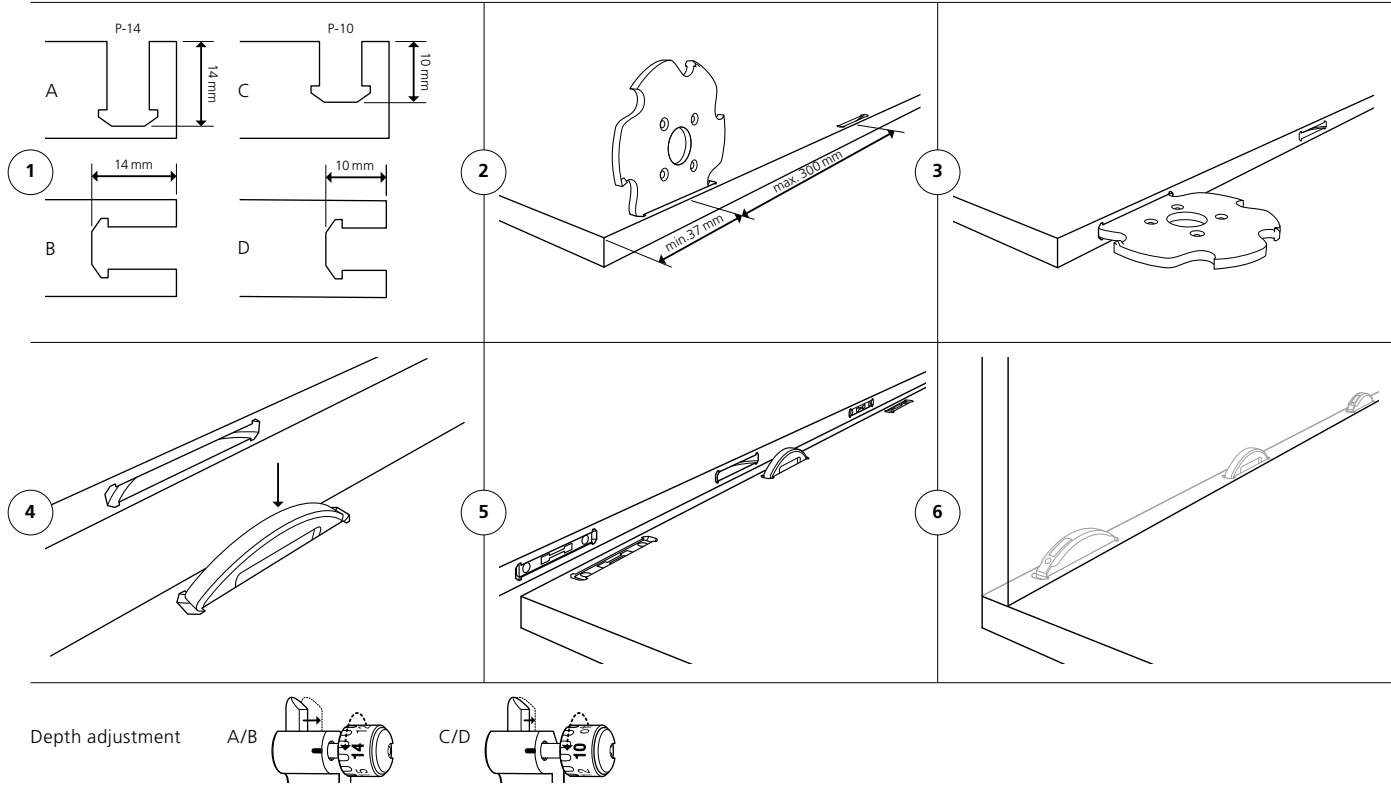
	Art. No.
Bisco P-14, 80 pieces	<b>145301</b>
Bisco P-14, 300 pieces	<b>145302</b>
Bisco P-14, 1000 pieces	<b>145303</b>

	
Bisco P-10, 80 pieces	<b>145304</b>
Bisco P-10, 300 pieces	<b>145305</b>

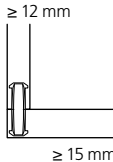
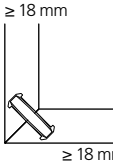
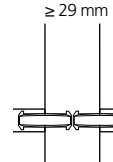
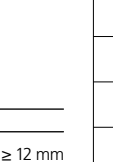
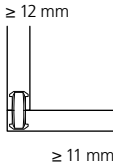
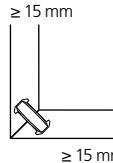
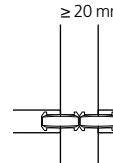

Matching accessories starting on **PAGE 170**



## Installation



## 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 76** for technical specifications

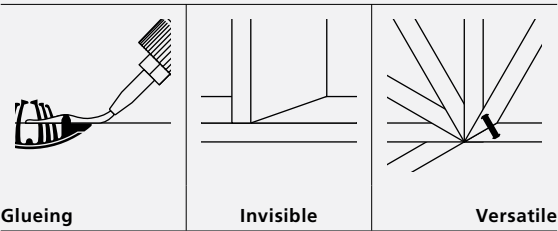


# Tenso P-14

Self-clamping connector for glueing materials from 16 mm thickness





## Features




- Self-clamping connector for glueing, installed in seconds
- Invisible connection for maximum aesthetics
- Pretensioning function, ideal for miters and connection situations from 22.5° to 180°
- High clamping force for perfectly clamped joints without screw clamps and shims
- Gluing aid for a wide range of applications in furniture or interior design

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

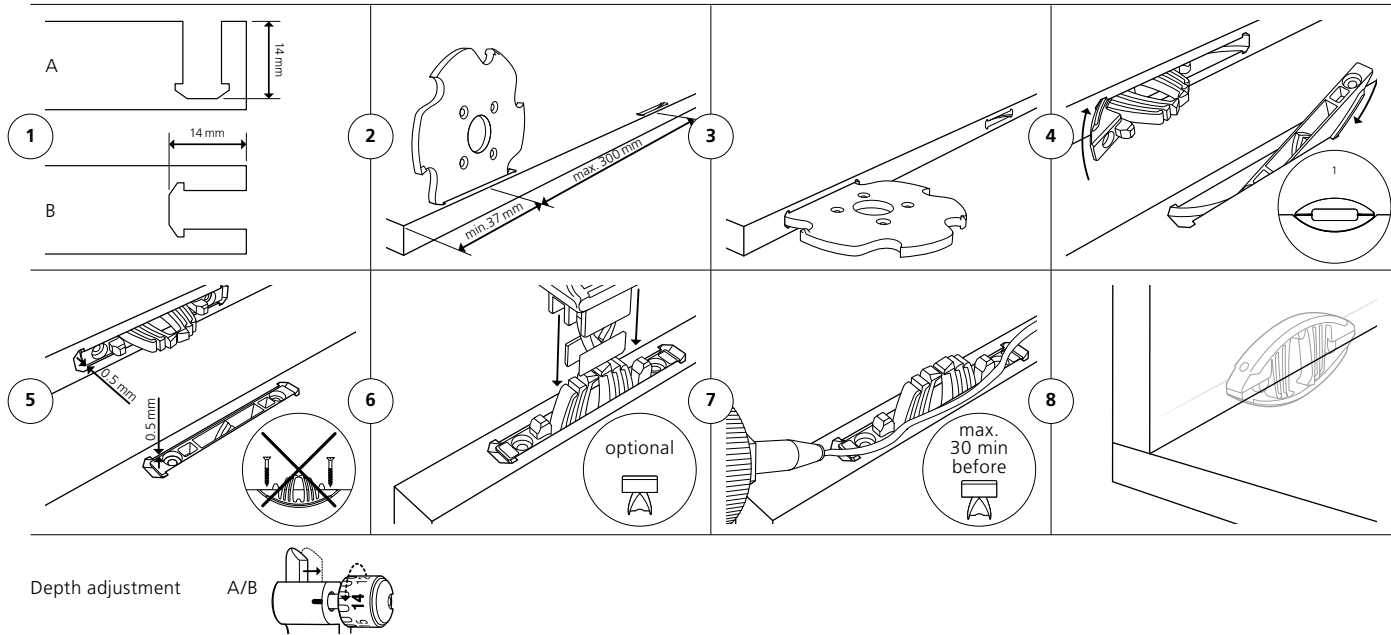
	
Art. No.	
Tenso P-14, 80 pairs	145415
Tenso P-14, with preload clip, 80 pairs	145415S
Tenso P-14, 300 pairs	145425
Tenso P-14, with preload clip, 300 pairs	145425S
Tenso P-14, 1000 pairs	145435
Tenso P-14 element with spring, 2000 pieces	145440
Tenso P-14 element without spring, 2000 pieces	145441

	
Tenso P-14 preload clip, 300 pieces	145426
Tenso P-14 preload clip, 1000 pieces	145436

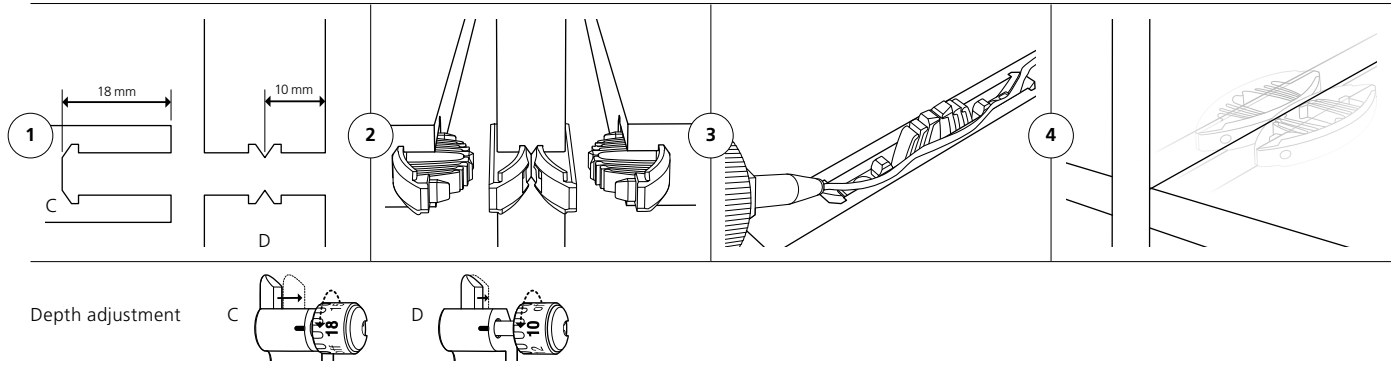
Matching accessories starting on PAGE 170



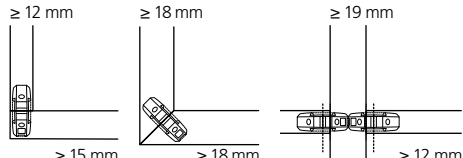
## Installation



## Displacer installation



## Technical data

<b>Joining methods</b> 	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 77 for technical specifications | <sup>1</sup> Note: The aligning element Bisco P-14 is ideal to dry-assemble the joints before glueing.

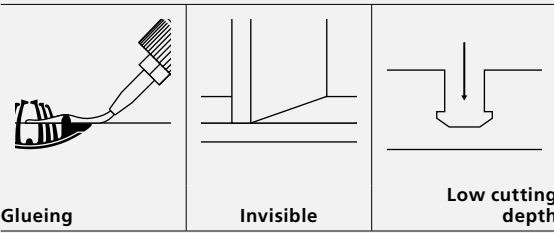


# Tenso P-10

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






## Features



- Self-clamping connector for gluing, installed in seconds
- For miters from 15 mm and butt joints from 12 mm material thickness
- Invisible connection for maximum aesthetics
- Pretensioning function, ideal for miters and connection situations from 22.5° to 180°
- Gluing aid for a wide range of applications in furniture or interior design

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.

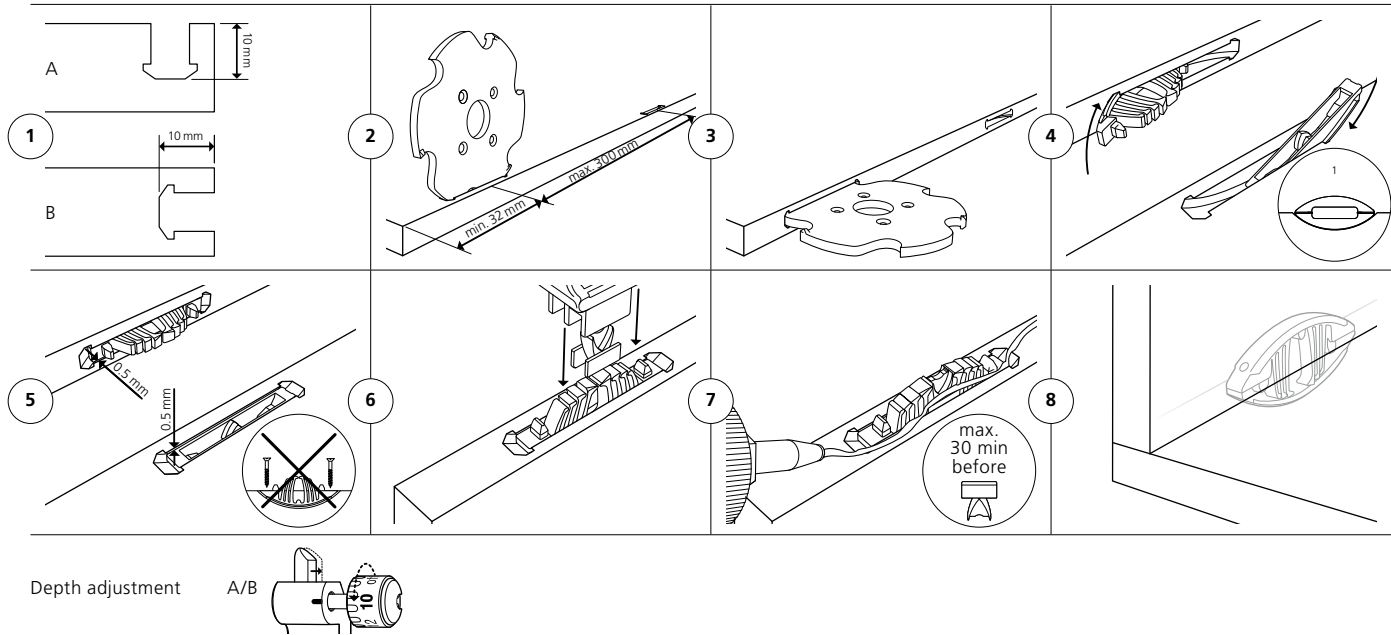
## Articles

	
Art. No.	
Tenso P-10, with preload clip, 80 pairs	145418
Tenso P-10, with preload clip, 300 pairs	145428
Tenso P-10, with preload clip, 1000 pairs	145438
Tenso P-10 element with spring, 2000 pieces	145442
Tenso P-10 element without spring, 2000 pieces	145443
	
Tenso P-10 preload clip, 2000 pieces	145445

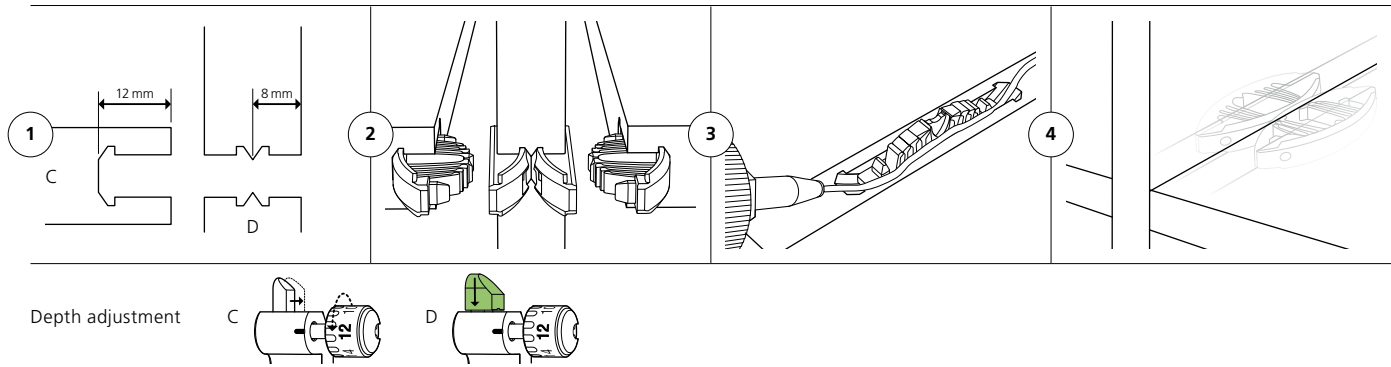
Matching accessories starting on PAGE 170



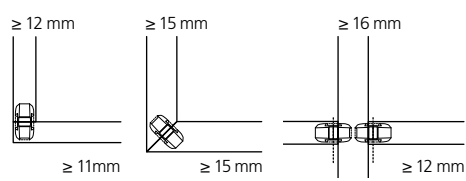
## Installation



## Displacer installation



## Technical data

<b>Joining methods</b> 	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 77 for technical specifications | <sup>1</sup> Note: The aligning element Bisco P-10 is ideal to dry-assemble the joints before glueing.

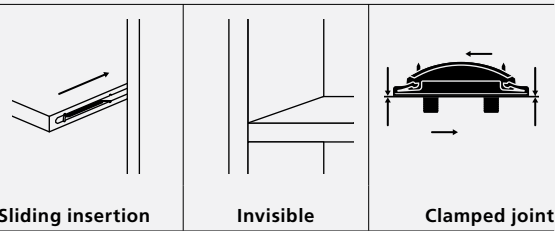


# Divario P-18

Self-clamping, invisible connector for slide insertion





## Features



- Furniture connectors for subsequent insertion of shelves or partitions
- Quick assembly on site – insert. Done.
- Divario P-18 tensions the joint perfectly during insertion
- Invisible connection for maximum aesthetics
- Ideal for wall units, wine racks, large pieces of furniture, flat-pack furniture

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

	
Divario P-18, 80 pairs	<b>145550</b>
Divario P-18, 300 pairs	<b>145560</b>
Divario P-18, 1000 pairs	<b>145570</b>
Divario P-18 element for P-System groove, 2000 pieces	<b>145520</b>
Divario P-18 element for drill holes, 2000 pieces	<b>145540</b>

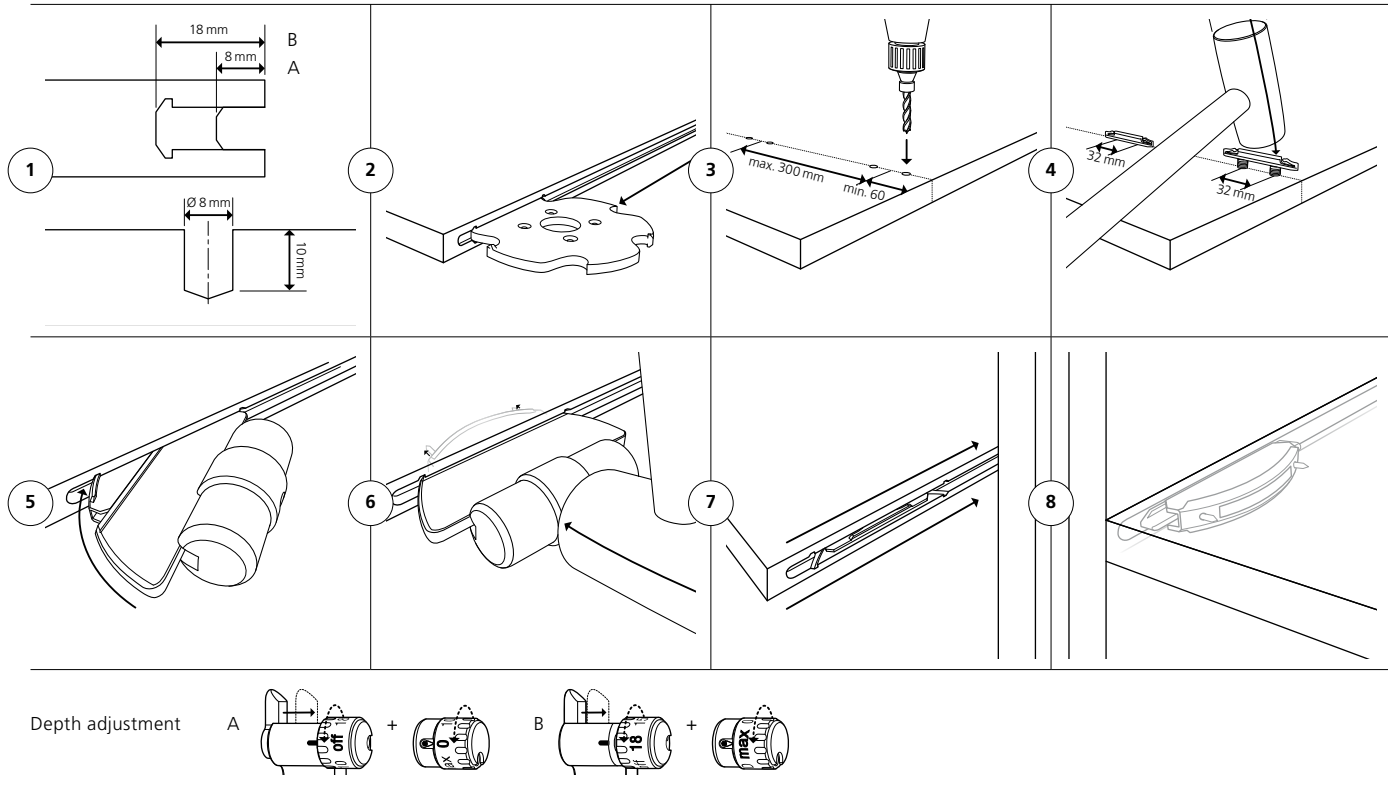
	
Divario P-18 installation tool	<b>125500</b>

	
Divario P-18 Starter set	<b>145550S</b>
Scope of delivery: 80 pair Divario P-18, Divario installation tool, marking jig plastic	

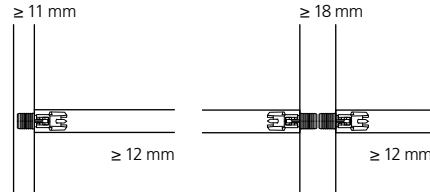
	
Divario P-18 Starter kit, in Systainer <sup>3</sup> M 137	<b>145552</b>
Kit contains: 80 pairs Divario P-18, Divario installation tool, marking jig metal	

Matching accessories starting on PAGE 170

## Installation



## Technical data

Joining methods	Element with P-System groove	58 × 16 × 9.7 mm
	Element with drill holes	72 × 17 × 8 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)	19 mm
	Up to	MDF 740 <sup>1</sup>
		Particle board 590 <sup>1</sup>
		Beech 1820 <sup>1</sup>
	Tensile strength (N)	All materials 600 <sup>1</sup>
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.

See PAGE 77 for technical specifications | <sup>1</sup> See comment on load limits on PAGE 185

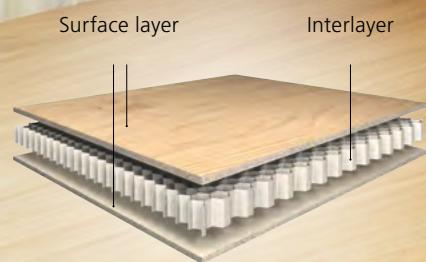


# LC P-16 connector for lightweight construction

New possibilities in lightweight construction with the P-System



LC P-16 is a connector that combines the advantages of lightweight construction with the efficient and aesthetic Clamex connection. Due to its width, the LC P-16 is anchored in the surface layers and acts as an adapter into which a Clamex P-14 connector is slid in.



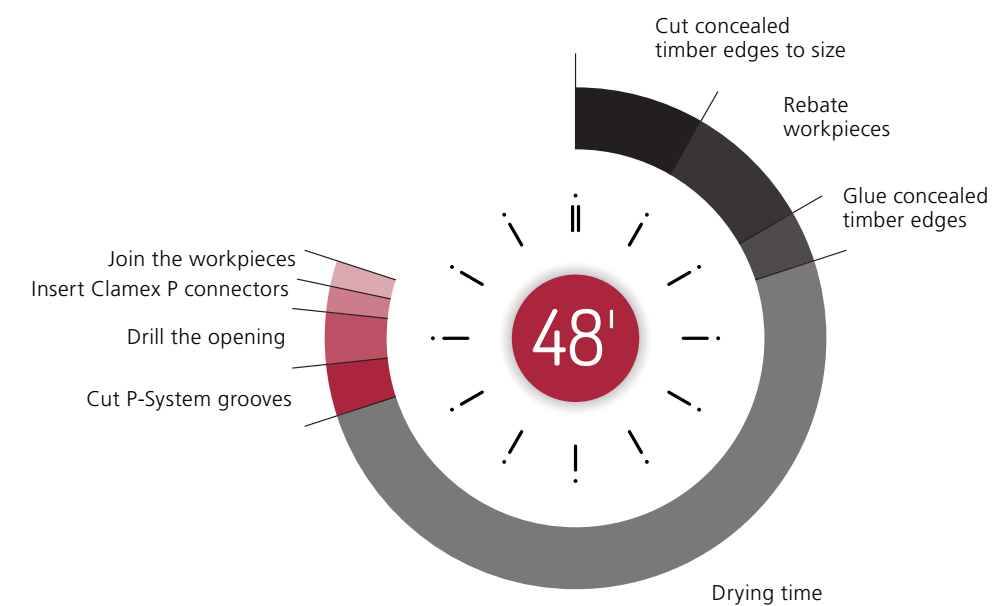
Lightweight construction stands for innovative designs that offer maximum stability and functionality with minimal use of materials. At a time when sustainability and resource conservation are becoming increasingly important, lightweight construction plays a central role. The use of intelligent materials and innovative technologies not only reduces weight and costs, but also protects the environment. Whether in the furniture industry, interior fittings or vehicle construction – lightweight construction enables flexible, resilient and sustainable solutions. It opens up new design possibilities and promotes efficient, future-oriented construction.

## Advantages in the manufacturing process

The LC P-16 lightweight connector significantly improves the machining and assembly process. The time-consuming use of a concealed timber edge is eliminated, which speeds up the production process and also saves material. The simple assembly – the connector is simply slid in – completely eliminates waiting times due to glueing. The result is a fast, smooth process that reduces time and costs in both manufacturing and assembly without compromising on aesthetics, stability and quality.

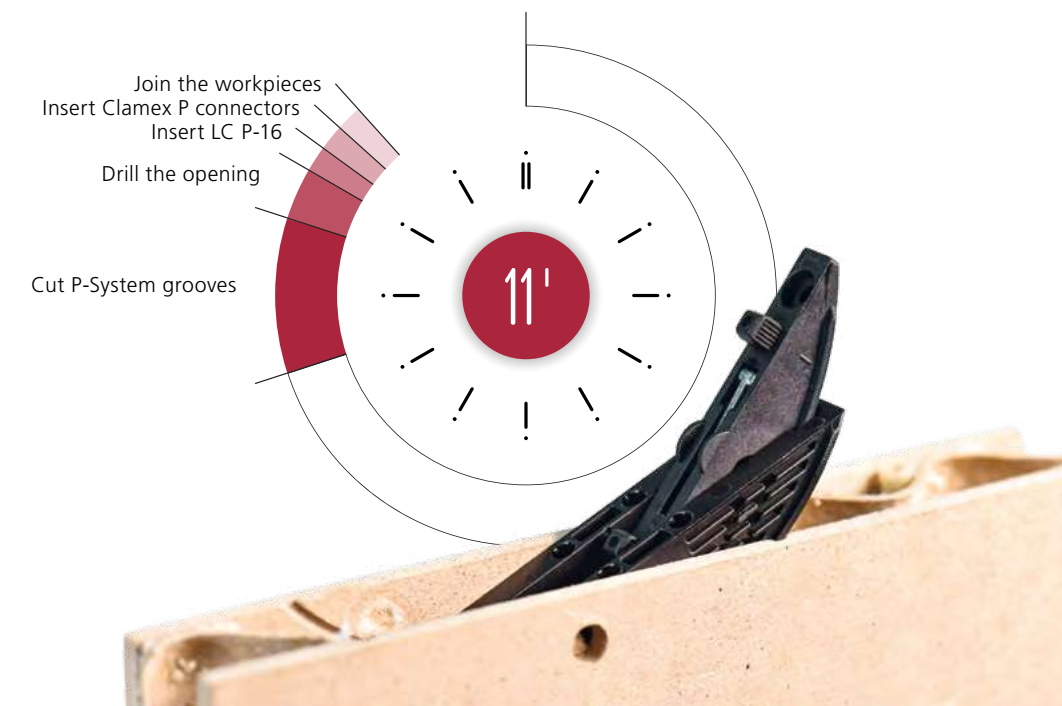
### Cabinet with concealed timber edge

Processing time per cabinet



### Cabinet with LC P-16

Processing time per cabinet



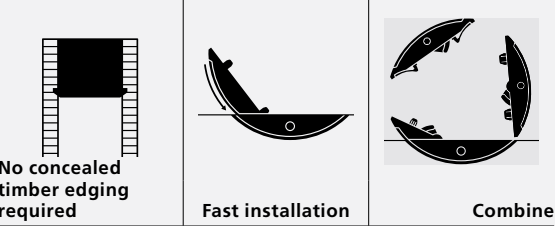


# LC P-16

Joining system for lightweight panels without the need for concealed timber edges



## Features




- P-System joint for lightweight materials and speedy installation
- Strong anchorage in the surface layers without concealed timber edges
- Three product sizes for use with all common material thicknesses
- Enables the use of the detachable Clamex P family
- Ideal for furniture and assemblies in lightweight construction, caravans and shipbuilding

The LC P-16 is a P-System joint for lightweight panels. It is securely anchored in the surface layer by its profile. The integrated P-System groove makes it possible to slide in Clamex P connectors without the time-consuming use of concealed timber edges or glues. Machining with two to three machining steps is carried out either with the Zeta P2 or, even more efficiently, with the CNC machining centre. Thanks to the three sizes of the LC P-16, detachable connections in various lightweight panels are possible.

## Articles

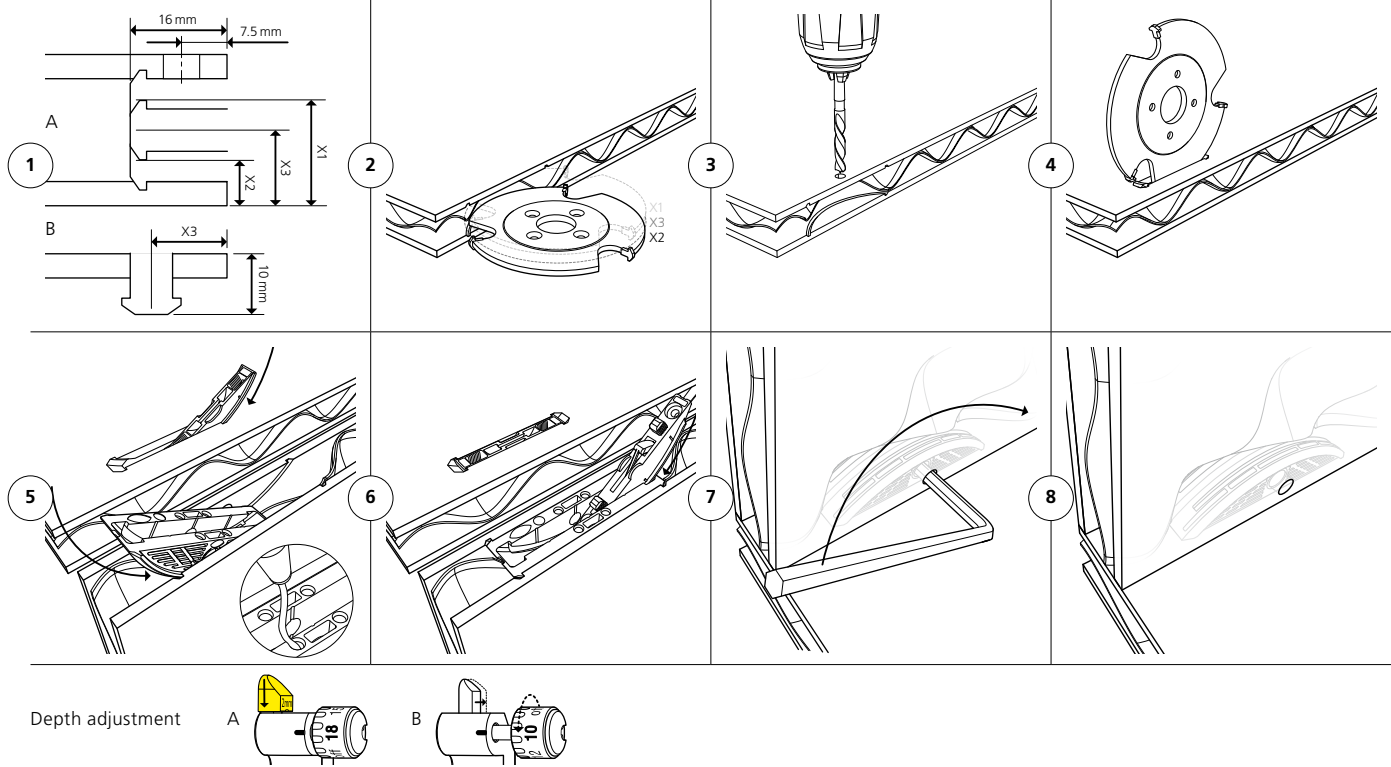
	Art. No.
LC P-16 x 11, 80 pieces	<b>145710</b>
LC P-16 x 11, 1000 pieces	<b>145711</b>
LC P-16 x 11 Set, 80 pieces, incl. Clamex P-14/10	<b>145712</b>

	
LC P-16 x 17, 80 pieces	<b>145720</b>
LC P-16 x 17, 1000 pieces	<b>145721</b>
LC P-16 x 17 Set, 80 pieces, incl. Clamex P-14/10	<b>145722</b>

	
LC P-16 x 22, 80 pieces	<b>145730</b>
LC P-16 x 22, 1000 pieces	<b>145731</b>
LC P-16 x 22 Set, 80 pieces, incl. Clamex P-14/10	<b>145732</b>

	
LC P-16 Starter Set	<b>145700</b>
Scope of delivery: 20 x LC P-16 x 11, 20 x LC P-16 x 17, 20 x LC P-16 x 22, 20 pairs Clamex P-14/10, 1 piece positioning clip, 1 piece element insert Clamex P-16, 1 piece depth adjuster cap 2 mm, 1 piece allen key, SW 4 mm, 75 x 55 mm	

## Installation



## Technical data

Joining methods	Size 16 x 11	71.4 x 15.3 x 13.6 mm	
	Size 16 x 17	71.4 x 15.3 x 19.6 mm	
	Size 16 x 22	71.4 x 15.3 x 24.6 mm	
	Cutter	Ø 100.4 x 7 x Ø 22 mm	
	Material connector	Fiberglass reinforced plastic	
	Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm	
	Tensile strength 90° (N) Up to	Surface layer / Interlayer: MDF / Corrugated wood fibre    Particle board / Cardboard honeycomb	
	LC size / Surface layer thickness:		
	LC P-16 x 11 / 4 mm	680 <sup>1</sup>	460 <sup>1</sup>
	LC P-16 x 17 / 4 mm	670 <sup>1</sup>	410 <sup>1</sup>
	LC P-16 x 22 / 8 mm	1100 <sup>1</sup>	870 <sup>1</sup>
	Material range	Lightweight materials, particle board, MDF, softwood etc.	



# LC P-16 installation information

## Machining with Zeta P2

The LC P-16 is fixed in the surface layers of the lightweight panel using the P-System anchoring. Machining can be carried out with a CNC machining centre or with the Zeta P2. Depending on the size of the surface layer, two to three milling operations are required to achieve the required groove width, as the LC P-16 is wider than a P-System connector. The machining process for an LC P-16 x 11 with the Zeta P2 is as follows:



Position the angle stop and cut the first groove



Drill 6 mm access hole



Align the Zeta P2 in the hole using the positioning clip and cut the next groove\*



Inserting the LC P-16



Slide Clamex P-14 into LC P-16 and Clamex P-10 connector half into the surface.



Connect the workpieces – finished!

## Choosing the right connector size

The LC P-16 lightweight connector is available in three sizes. This enables joints in the most common lightweight panels

### LC P-16 x 11



Panel thickness / surface layer  
19 mm / 4 mm

### LC P-16 x 17



Panel thickness / surface layer  
25 mm / 4 mm

### LC P-16 x 22



Panel thickness / surface layer  
30 mm / 4 mm  
38 mm / 8 mm



The LC P-16 configurator is available for selecting the correct connector for other material or surface layer thicknesses. Based on the panel thickness and thickness of the interlayer or surface layer, the configurator determines whether the installation of the LC P-16 is possible, which sizes can be used and which cutting position is ideal.

# Versatile applications with LC P-16

## Furniture-making



Robust, aesthetic joints between lightweight panels that combine design and functionality. Perfect for large wall units, cupboards, suspended sideboards or dining tables.

## Interior fitting



Strong joints of lightweight panels for modern interior solutions. Ideal for butt joints of wall panels, ceiling elements, reception counters, floating shelves or separation walls.

## Kitchen manufacturing



Weight reduction for carcasses, wall-mounted cabinets or high cabinets. Ideal for private kitchen installations.

## Shopfitting and trade fair construction



Strong, detachable joint of lightweight panels for fixed or temporary structures. The solution for wall panels, free-standing furniture or exhibition furniture.

## Caravan and vehicle interior fittings



Strong, aesthetic joints for lightweight materials when low weight is critical. Ideal for interior fitting and furniture construction.

## Boat interiors



Removable joints with lightweight panels in small rooms. Transport the disassembled furniture parts through the narrow entrance and assemble it efficiently and stably inside the boat.

\* If the machining is carried out with the Zeta P2, creating spacers is recommended for performing the two to three machining operations for the LC P-16. The correct dimension ican be found with the LC P-16 configurator.



# High performance without cable

Lamello – partner in the Cordless Alliance System.

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.»



## CAS. The multi-brand battery system.

More than 40 powerful manufacturers have joined forces so that tools, battery packs, and chargers are 100% compatible with each other. CAS battery packs are developed in Germany and perform well even in the most demanding applications thanks to leading battery pack technology.

### One battery pack, many advantages.

- Clear cost advantages
- High investment security
- 40 years of battery pack experience
- Compatible with 18 Volt since 2009 & in the future
- 15 million battery packs on the market



Cross-  
Manufacturer



18 V  
compatible



Fits in over  
400 tools

Find out more at:  
[www.cordless-alliance-system.com](http://www.cordless-alliance-system.com)



## LiHD 4.0 Ah battery pack

### The unique 4.0 Ah battery pack with a single cell row and thus

- considerably flatter than a standard Li-Ion 4.0 Ah battery pack
- significantly lighter
- better handling thanks to less weight and size
- the perfect battery for Lamello cordless biscuit joiner machines and all cordless drill drivers, cordless impact drivers and impact wrenches.





# 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

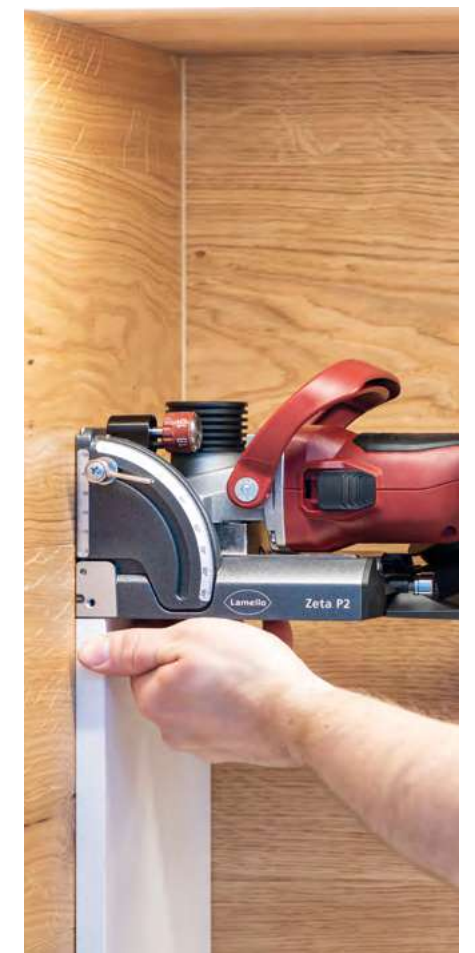


- For renovation work, the grooves are only cut directly on site after fitting
- Cable-free work facilitates handling overhead and in hard-to-reach niches

## 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 connection	Automatic vertical movement	Cordless freedom

- Cordless biscuit joiner for the production of the form-locking P-System groove
- Extremely fast, time-saving joining method
  - Cut. Connect. Done.
- Maximum freedom of movement in the workshop or on the construction site
- Large range of connectors for different applications
- Same application advantages as the well-known Lamello system with wooden biscuits

The cordless Zeta P2 is the profile biscuit joiner for even faster joints, 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 thanks to its battery drive. 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, Set, in systainer, incl. batteries, charger type C Euro	Art. No. <b>101801DESD</b>
Zeta P2 cordless biscuit joiner, DP, in systainer, without batteries without charger	<b>101800DESD</b>
Zeta P2 cordless biscuit joiner, DP, Set, in systainer, incl. batteries, charger type G	<b>101801GBSD</b>
Zeta P2 cordless biscuit joiner, DP, in systainer, without batteries without charger	<b>101800GBSD</b>
Kit contains: Zeta P2 cordless biscuit joiner, DP, 2 x Battery pack 18V, 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. 101801DESD/101801GBSD  
For other plug versions please contact your local Lamello specialist

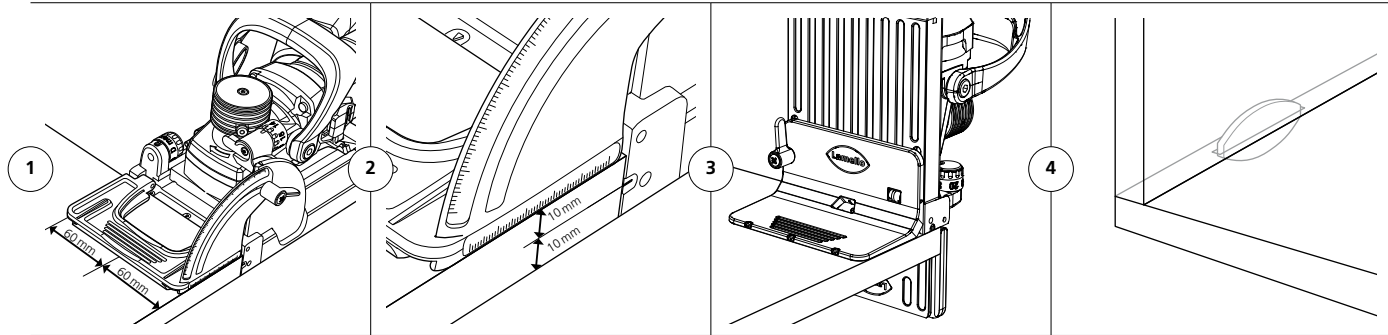


Matching accessories starting on PAGE 170

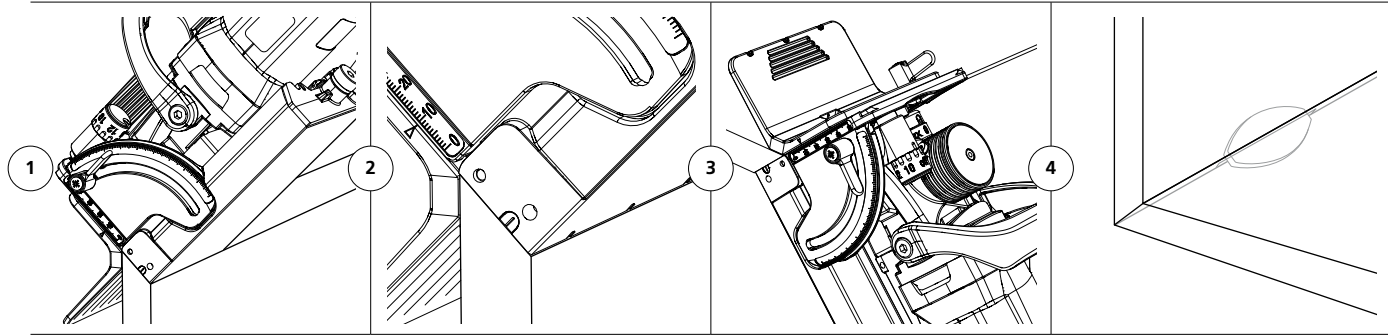


## Function

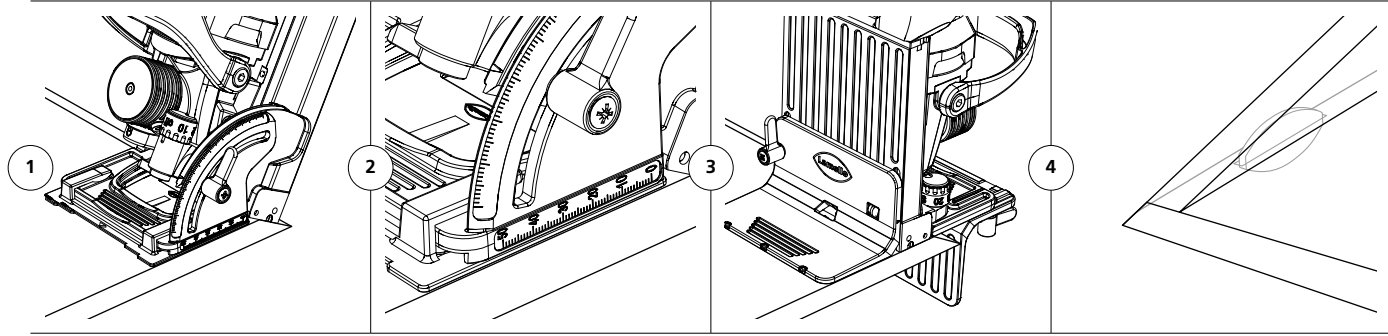
### 90° corner and dividing panel connection



### Miter connection 45° – 180° (struck from the outside)



### Obtuse miter connection 22.5° – 120°



## Technical data

Battery voltage	18 V	Groove width	7/10 mm
Speed	9 000 min <sup>-1</sup>	Groove depth max.	20 mm
P-System Cutter	Ø 100.4 x 7 x 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 connection	Automatic vertical movement	Numerous machining options

- Biscuit joiner for the production of the form-locking P-System groove
- Extremely fast, time-saving joining method
  - Cut. Connect. Done.
- Large range of connectors for different applications
- Same application advantages as the well-known Lamello system with wooden biscuits
- Precise furniture connections in all angle and connection situations

The Zeta P2 is the biscuit joiner for P-System connectors and is used to create the form-locking P-System groove 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

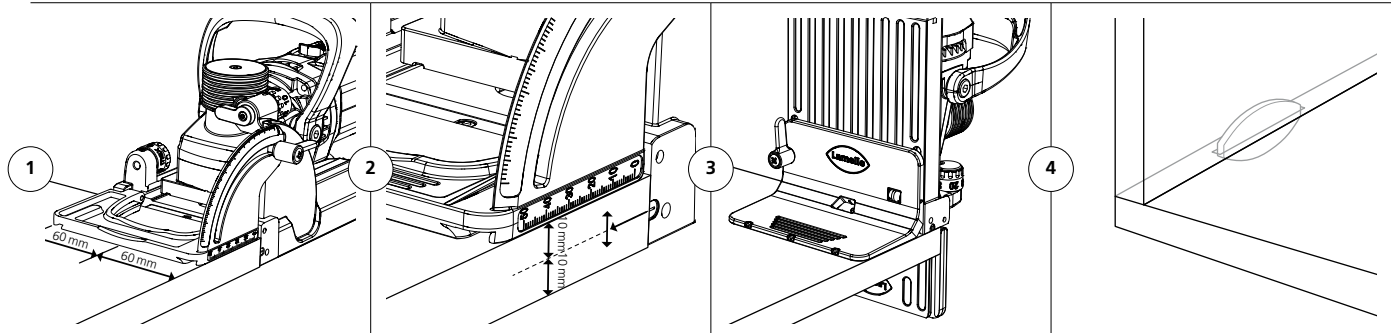
	Art. No.
Zeta P2 biscuit joiner, HW, plug type F Schuko, in Systainer <sup>3</sup> M	<b>101403DES</b>
Zeta P2 biscuit joiner, HW, plug type G, in Systainer <sup>3</sup> M	<b>101403GBS</b>
Zeta P2 biscuit joiner, DP, plug type F Schuko, in Systainer <sup>3</sup> M	<b>101403DESD</b>
Zeta P2 biscuit joiner, DP, plug type G, in Systainer <sup>3</sup> M	<b>101403GBSD</b>
Kit contains: Zeta P2 biscuit joiner, DP, plug type C Euro, Clamex P drill jig incl. drill, adapter 36 mm, spacer 2 and 4 mm, set of tools, stop square	
For other plug versions please contact your local Lamello specialist	



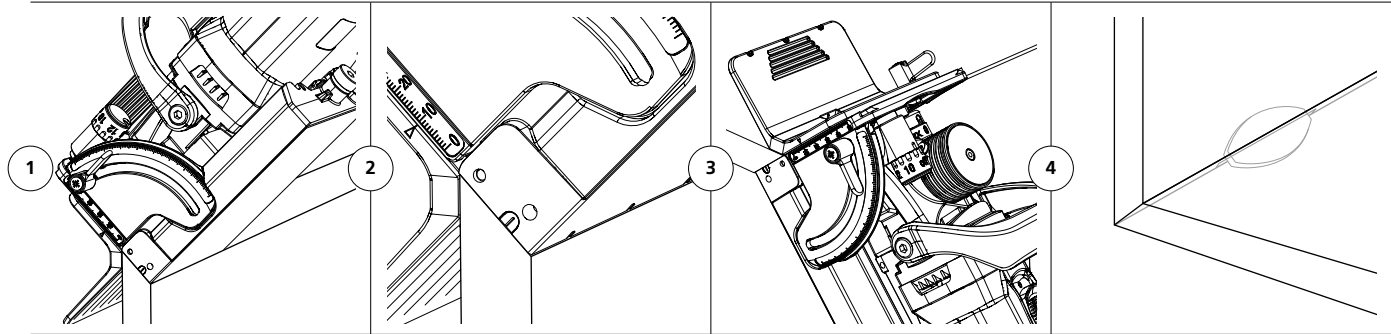
Also available as a set (see PAGE 68)

## Function

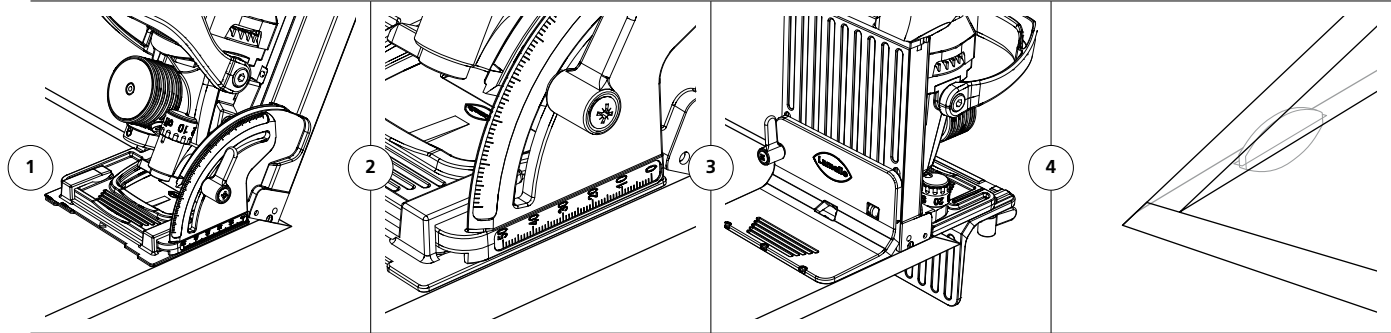
### 90° corner and dividing panel connection



### Miter connection 45° – 180° (struck from the outside)



### Obtuse miter connection 22.5° – 120°



## Technical data

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



# Zeta P2 Set

The perfect start to the P-System

# Connected in seconds ...

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

## Articles

The Zeta P2 Set is the comprehensive pack to get started with the P-System. It consists of three systainers that can be stacked compactly. The first systainer contains the Zeta P2 machine including accessories. The second systainer contains the Divario P-18 Starter Set and the third systainer contains the most common connectors, Clamex P-14 and Tenso P-14.

	Art. No.
Zeta P2 Set, DP, plug type F Schuko, in Systainer <sup>3</sup> M incl. connector assortment	101403DESET
Zeta P2 Set, DP, plug type G, in Systainer <sup>3</sup> M incl. connector assortment	101403GBSET

### Scope of delivery 1st systainer:

1 pce Zeta P2 biscuit joiner, Clamex P drill jig incl. drill, adapter 36 mm, spacer 2 and 4 mm, set of tools, stop square

### Scope of delivery 2nd systainer

1 pce Divario P-18 Starter Set in Systainer<sup>3</sup> M  
Consisting of: 80 pairs Divario P-18, marking jig metal, installation tool, drill

### Scope of delivery 3rd systainer:

1 pce P-System connector set in Systainer<sup>3</sup> M  
Consisting of: 80 pairs Clamex P-14, 80 pairs Tenso P-14 incl. preload tool







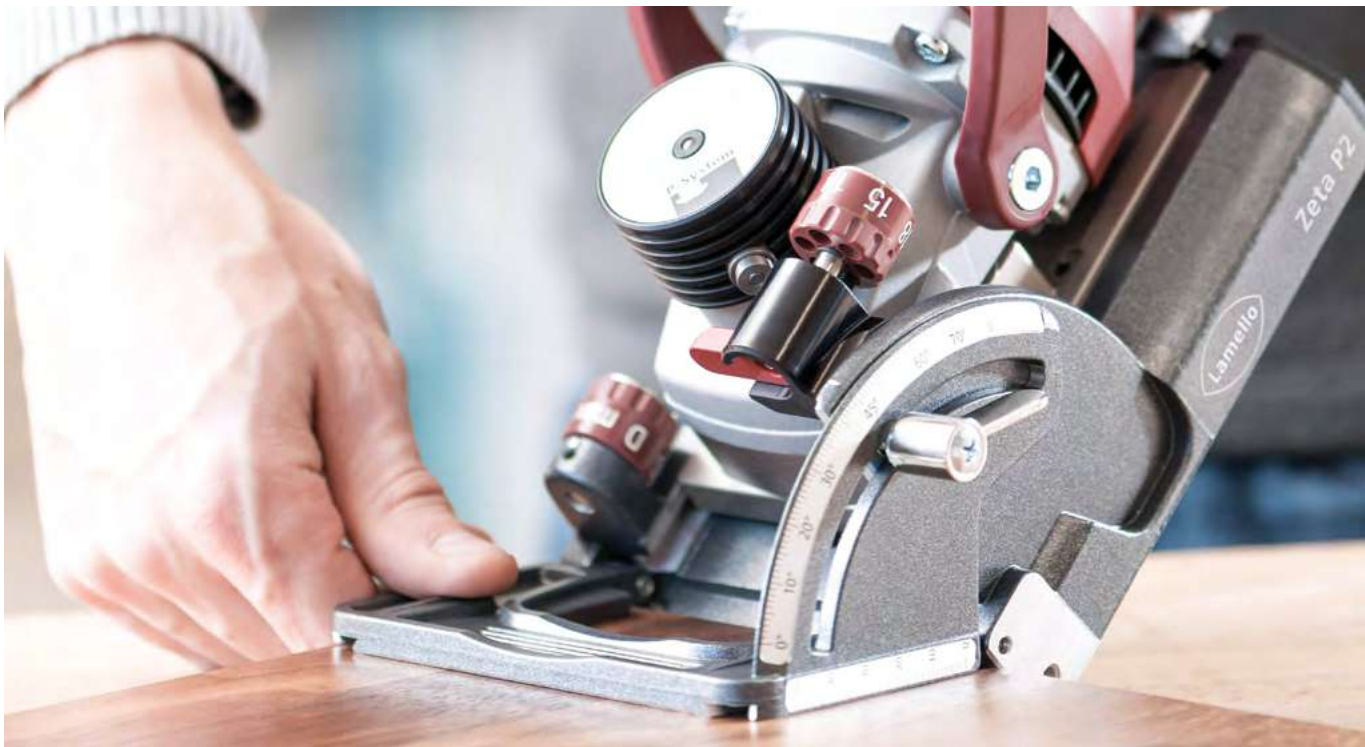
## Advantage

### ... with Clamex P – detachable

				connector pair	
					
					
1	Cut	2	Drill	3	Insert
4	Connect – finished!				
Ready in				50 s	

### ... with Tenso P – glued

																<b>connector pair</b>	
1. Cut				2. Insert				3. Apply glue				4. Connect – finished!				1. Cut 25	
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# 3-year Lamello warranty

Register now and benefit!

## Comprehensive cover

By registering your new device online you can obtain an additional extension of your guarantee and comprehensive cover against repair costs for a total of three years from your purchase date.



Register now  
on our website!

## How do I register?

1. Website:  
Service > Guarantee registration
2. Fill out the form online

The guarantee applies exclusively to the Lamello biscuit joiners Zeta P2, Classic X and Top 21 in selected countries. Registration must take place via the Lamello website and within 30 days of purchase from an authorised dealer.

3 year  
warranty

*« Zeta P2 – for fast, easy  
and precise work. »*

Jeffrey De Smet, independent carpenter, Belgium



# 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
LC P-16		

## P-System depth adjustment

10	Depth 10	Clamex P-10, Clamex P-14/10 Medius, Bisco P-10, Tenso P-10
12	Depth 12	
14	Depth 14	Clamex P-14, Clamex P-14/10 Medius, Clamex P-14/10 Flexus, Bisco P-14 and Tenso P-14
15	Depth 15	
18	Depth 18	Divario P-18, LC P-16
OFF		Groove cuts without P-System groove = for standard

## With 4 mm Lamello System groove cutter

20	10	0
E20-H	E20-L	Clamex S-20
K20	C20	C10

## With 3 mm Lamello System groove cutter

H9

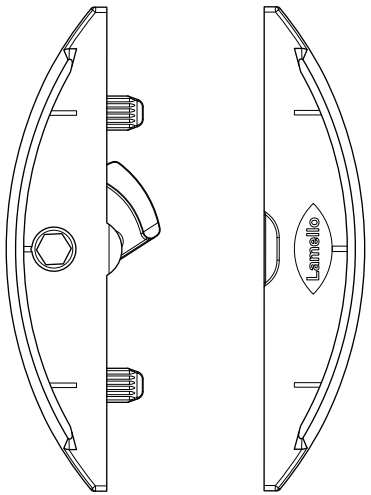
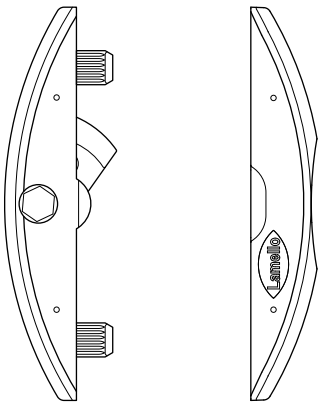
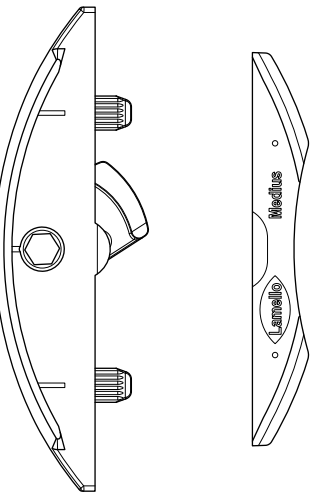
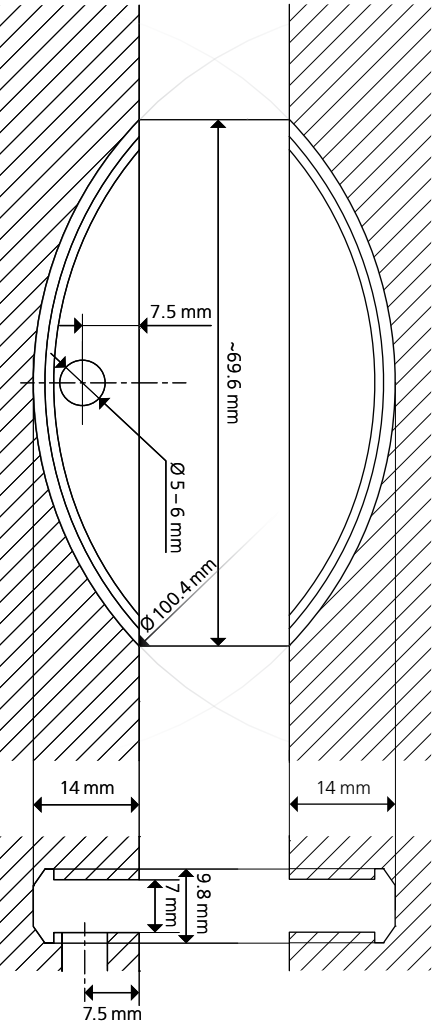
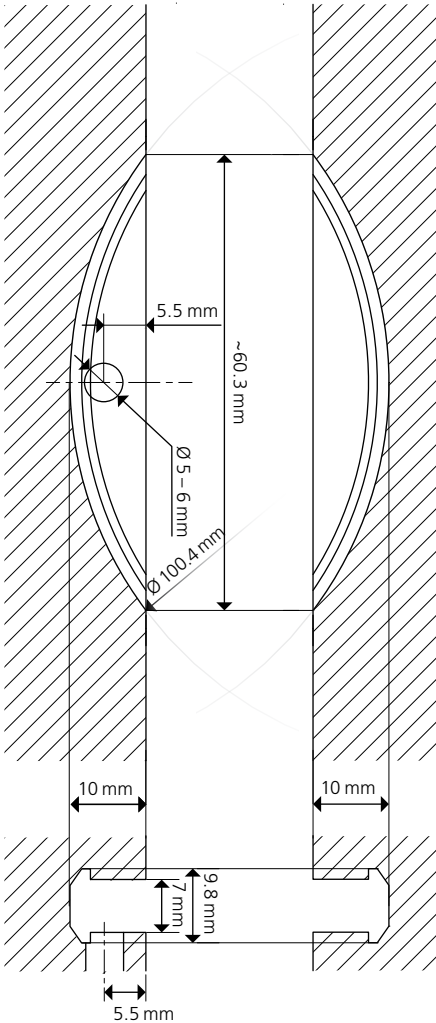
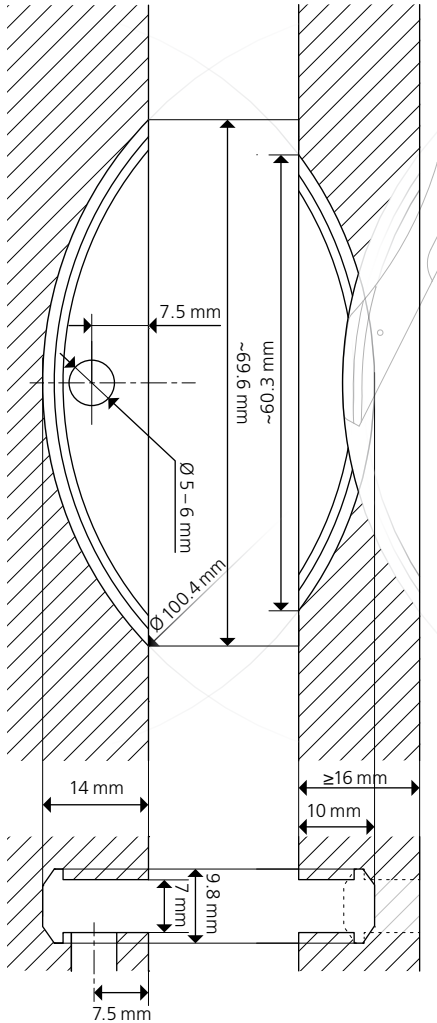
## Lamello depth adjustment system

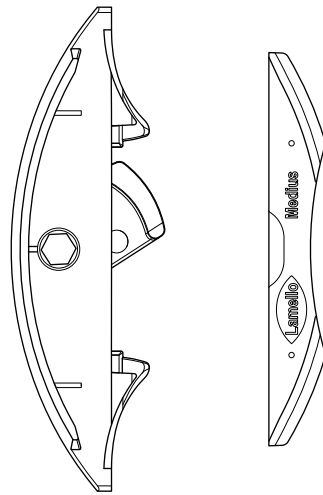
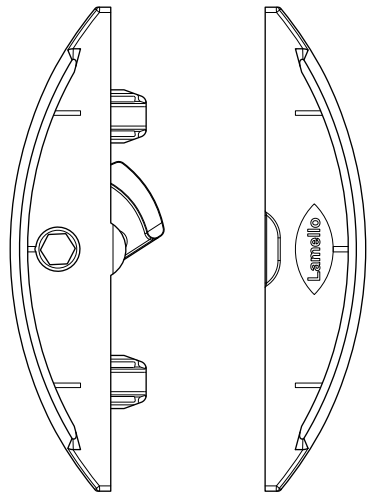
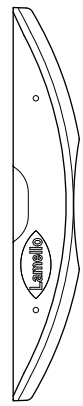
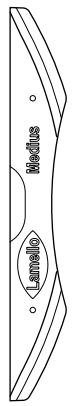
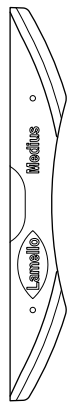
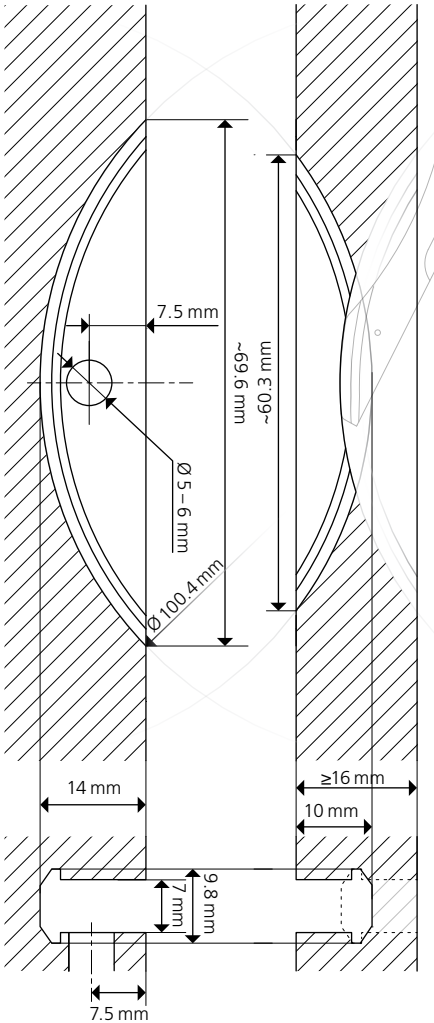
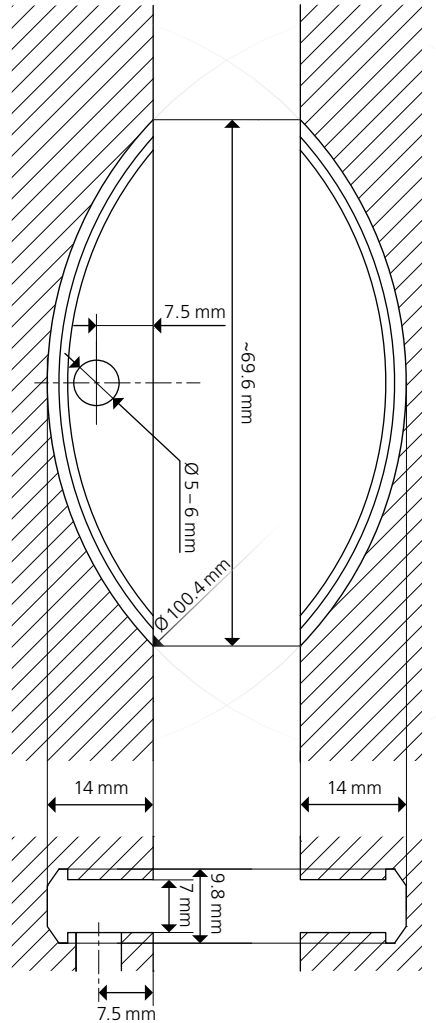
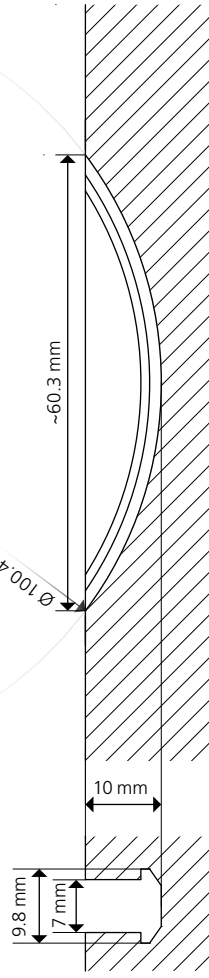
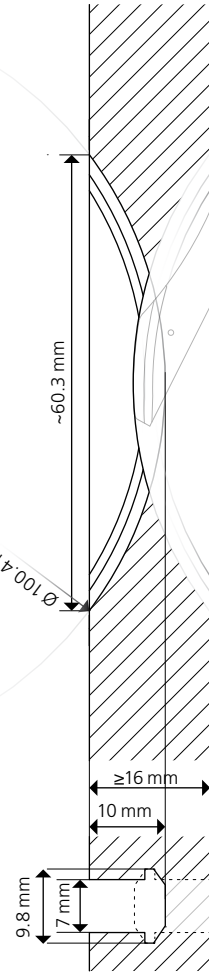
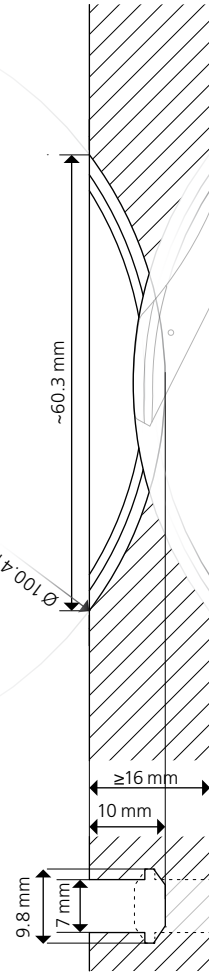
0	Depth 0	no. 0
10	Depth 10	no. 10, C10
20	Depth 20	no. 20, E20-L, K20, C20, Clamex S-20
S	Depth S	E20-H
D	Depth D	Clamex S-18, E20-L
max	Depth max	H9 (incl. spacer), E20-L



Technical information

Overview of connectors + grooves (scale 1:1)

Clamex P-14		Clamex P-10		Clamex P-14/10 Medius	
					
					
<b>Tensile strength (N)</b>	Up to	<b>Tensile strength (N)</b>	Up to	<b>Tensile strength (N)</b>	Up to
MDF	1210 <sup>1</sup>	MDF	700 <sup>1</sup>	MDF	760 <sup>1</sup>
Particle board	1070 <sup>1</sup>	Particle board	540 <sup>1</sup>	Particle board	680 <sup>1</sup>
Beech	1870 <sup>1</sup>	Beech	900 <sup>1</sup>	Beech	1070 <sup>1</sup>

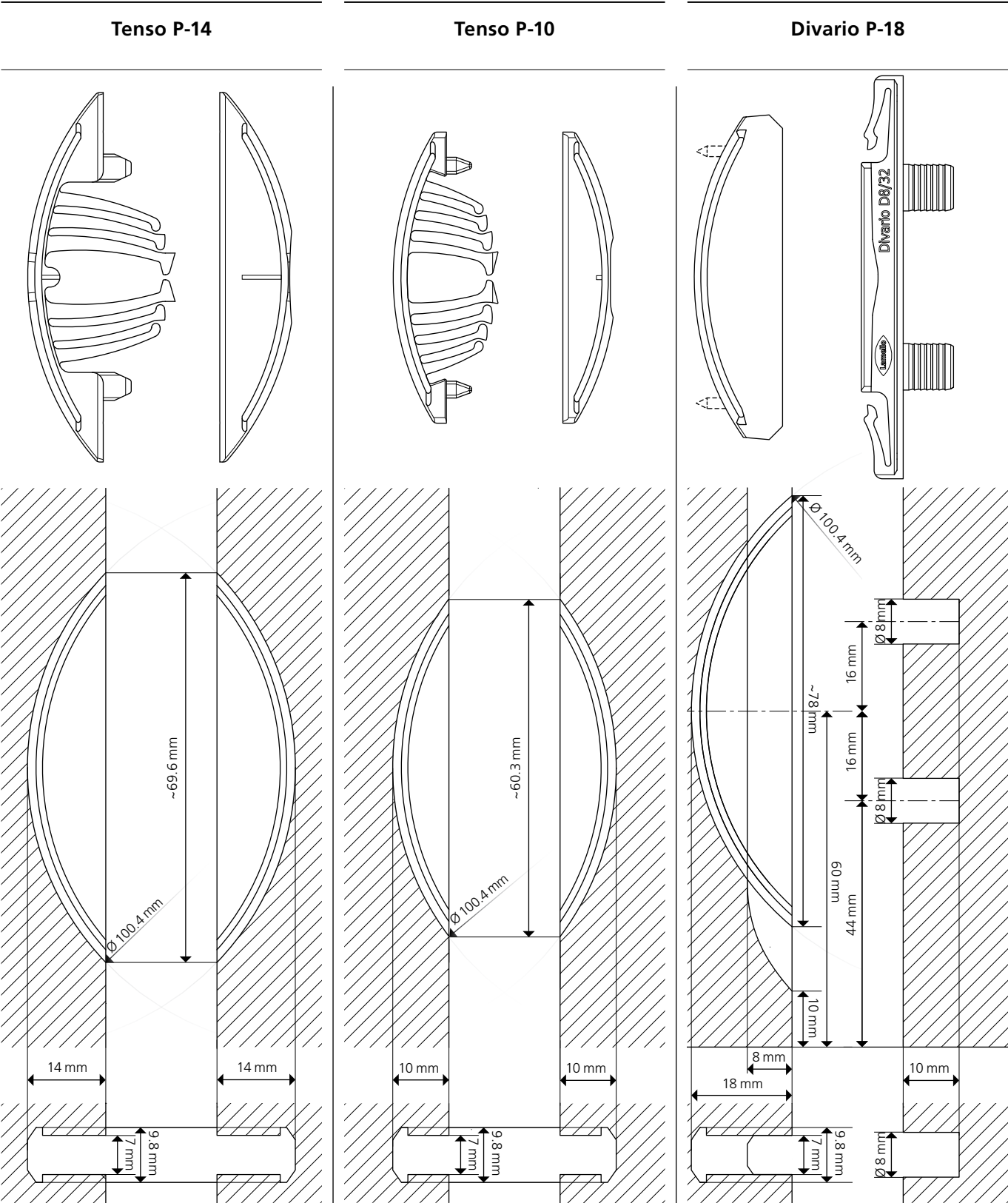
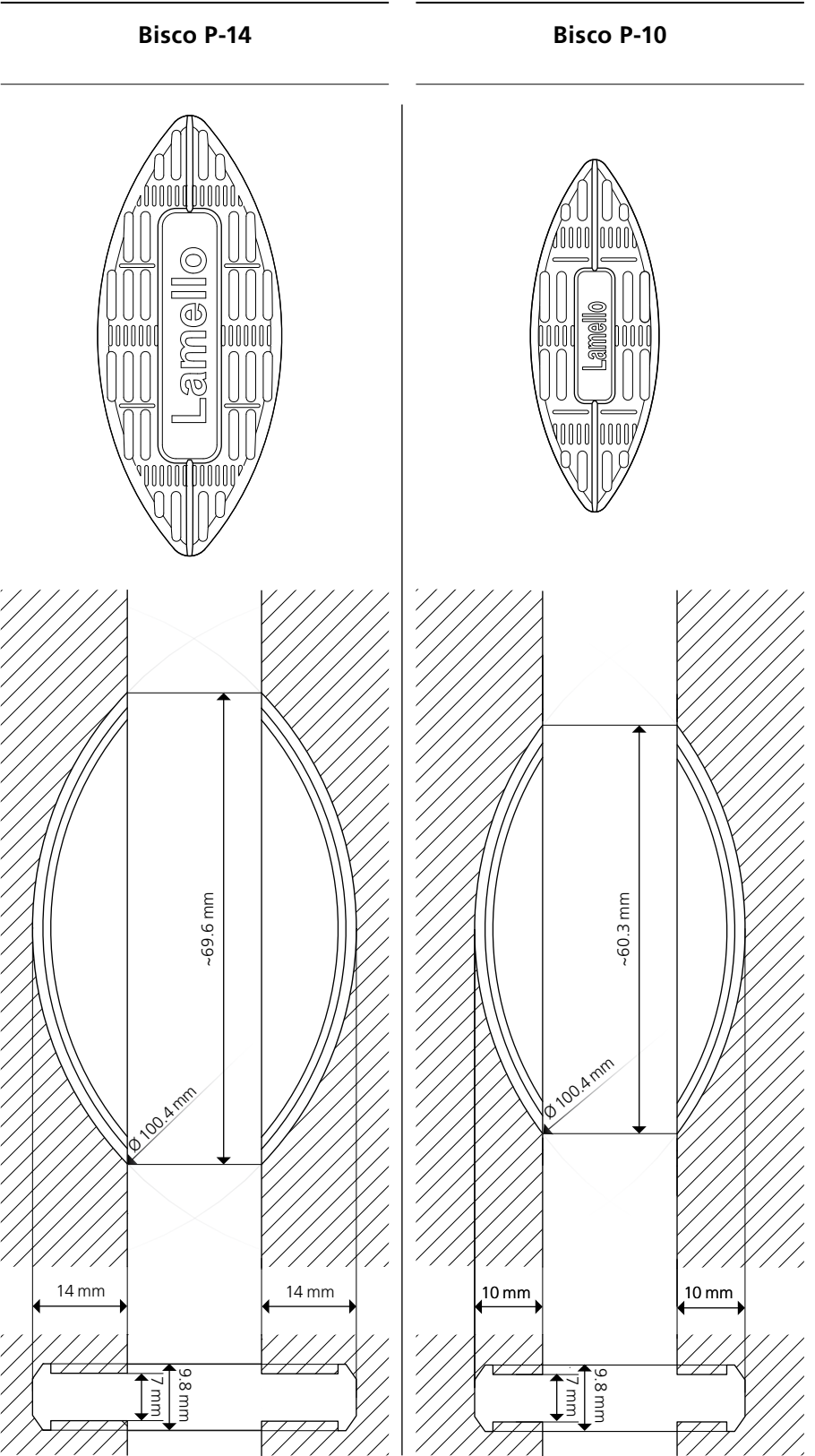
Clamex P-14/10 Flexus		Clamex P-14 CNC with lever		Clamex P-14 without lever	Clamex P-10 without lever	Clamex P-10 Medius without lever	
							
							
<b>Tensile strength (N)</b>	Up to	<b>Tensile strength (N)</b>	Up to			<b>Tensile strength (N)</b>	Up to
MDF	790 <sup>1</sup>	MDF	1210 <sup>1</sup>			MDF	950 <sup>1</sup>
Particle board	710 <sup>1</sup>	Particle board	1000 <sup>1</sup>			Particle board	880 <sup>1</sup>
Beech	1190 <sup>1</sup>	Beech	1660 <sup>1</sup>			Beech	1560 <sup>1</sup>

<sup>1</sup> See comment on load limits on PAGE 185



Technical information

Overview of connectors + grooves (scale 1:1)



Tensile strength (N)

Depending on the adhesive

Depending on the adhesive

Load limits per connector (N)\*

19 mm	
MDF	740 <sup>1</sup>
Particle board	590 <sup>1</sup>
Beech	1820 <sup>1</sup>

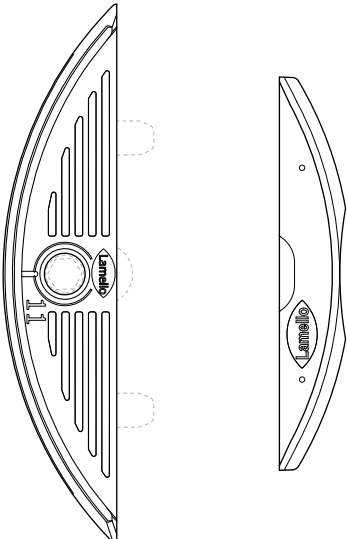
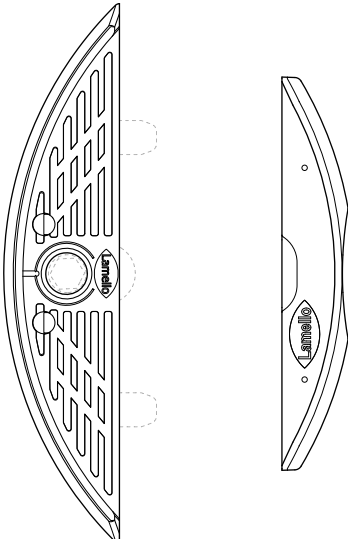
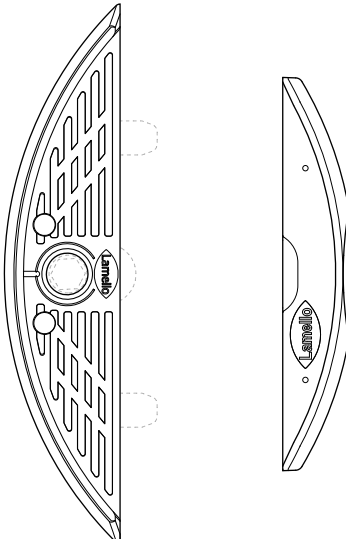
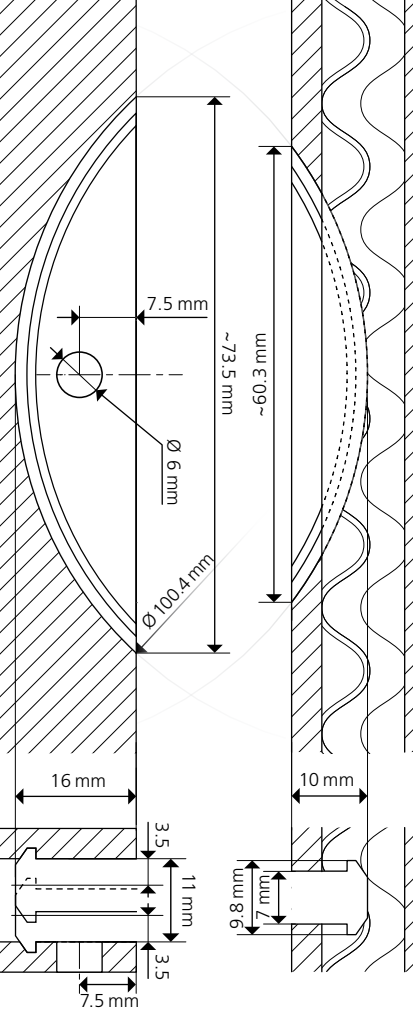
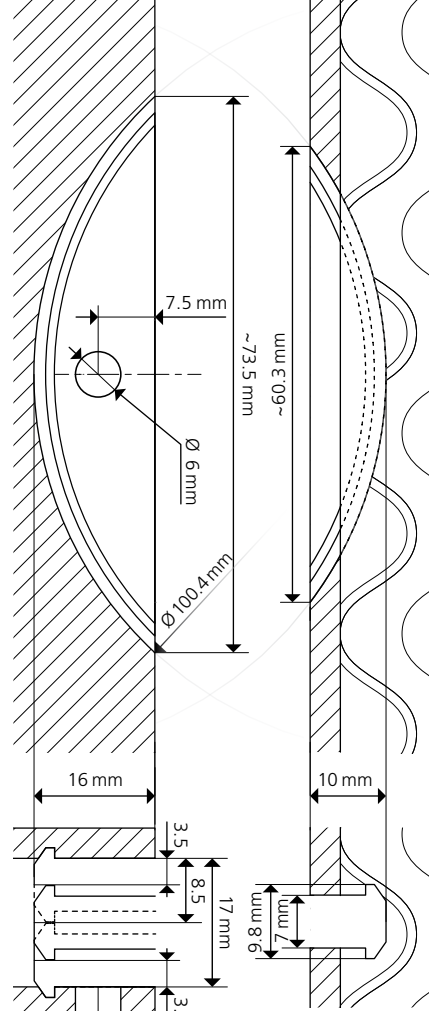
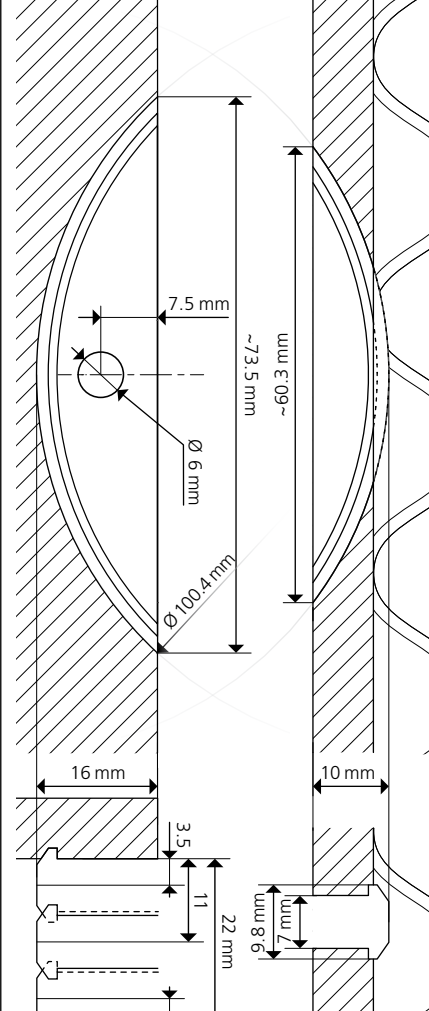
Tensile strength (N)

All materials	600 <sup>1</sup>
---------------	------------------



Technical information

Overview of connectors + grooves (scale 1:1)

LC P-16×11		LC P-16×17		LC P-16×22	
					
					
<b>Tensile strength 90° (N)</b>					
Surface layer / Interlayer		Up to		Up to	
MDF / Corrugated wood fibre		680 <sup>1</sup>		1100 <sup>1</sup>	
Particle board / Cardboard honeycomb		460 <sup>1</sup>		870 <sup>1</sup>	



« The Zeta P2 gives me complete design freedom, is efficient and allows for precise work. »

Mila Muller, Story Design Amsterdam, Netherlands

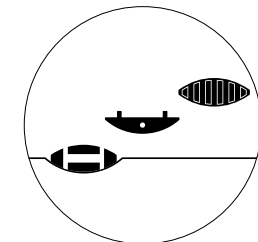


# Lamello System

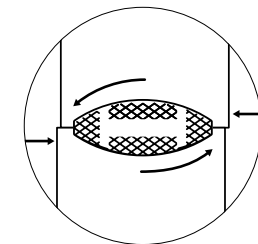
The original for efficient, intuitive and precise joints



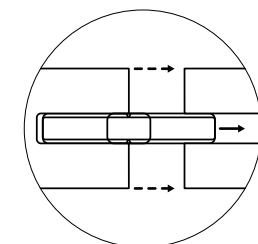
## Features



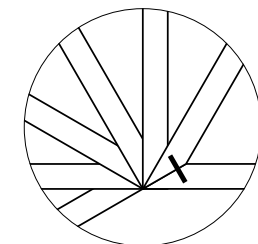
**Versatile use**  
One cutting principle for many different joining elements



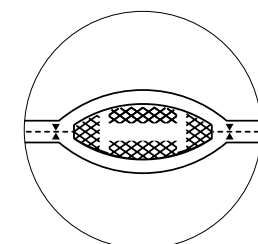
**Lateral tolerance**  
The generous sliding tolerance allows for perfect flush alignment of workpieces



**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



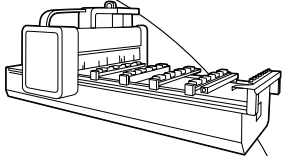
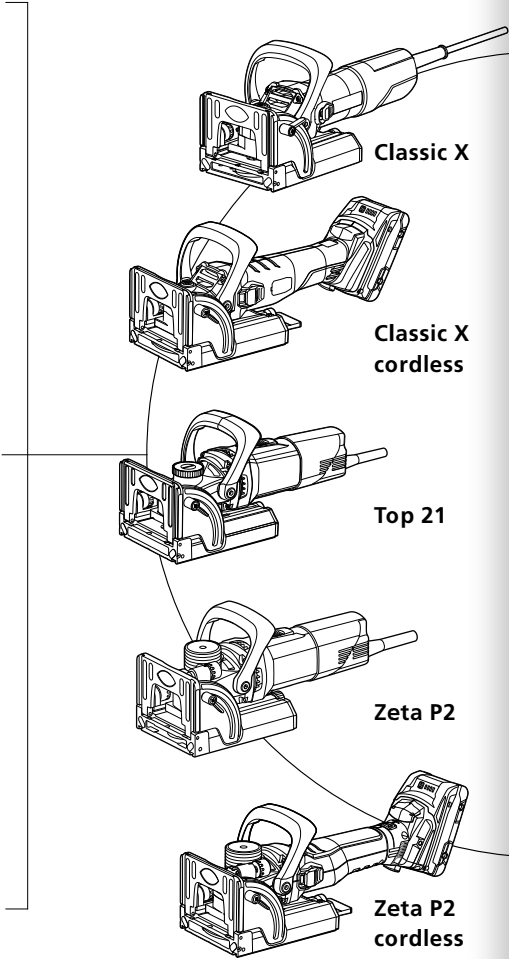
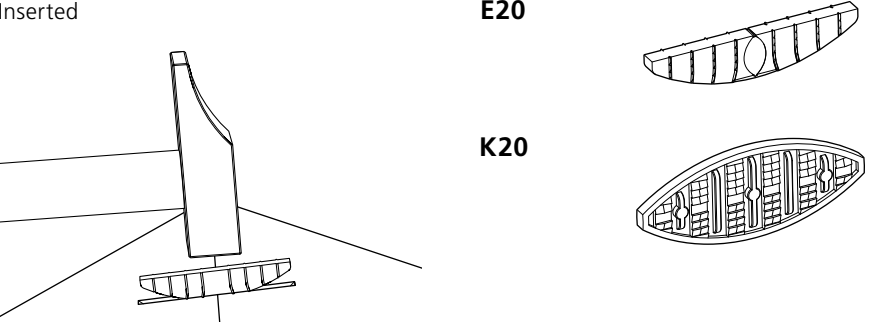
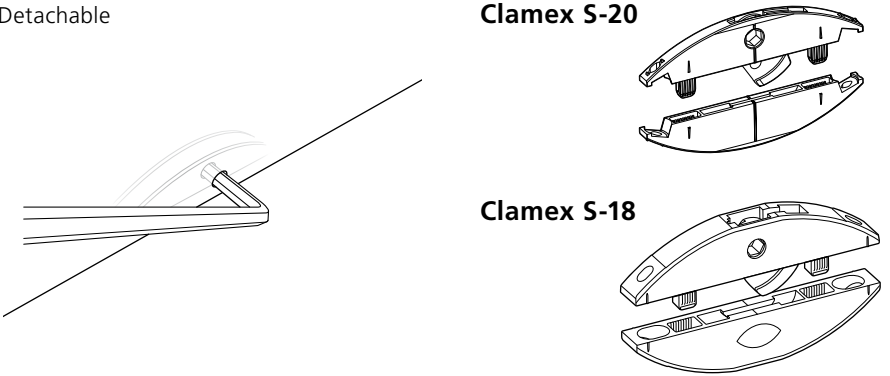
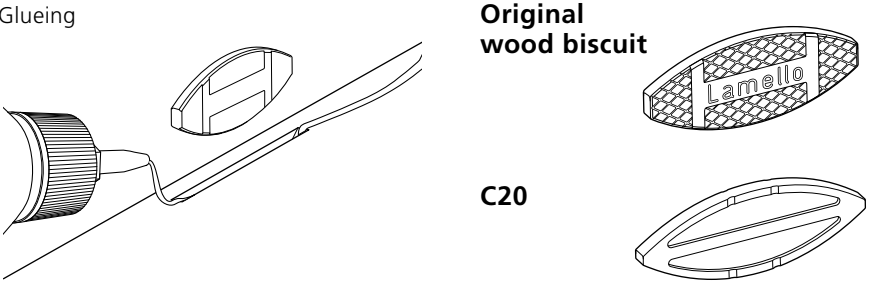
**Symmetrical**  
The identical groove in both workpieces leads to an increase in efficiency in production



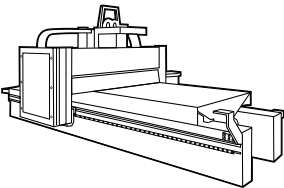
# Lamello System

Overview

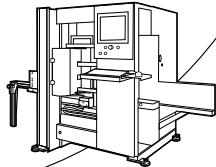
Features	Connector	Machines	Sequence				
		Power tools	CNC machines	1 Cut	2 Apply glue	3 Insert the connector	4 Clamp



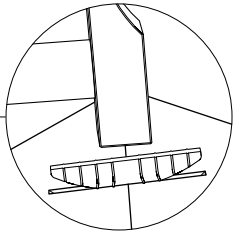
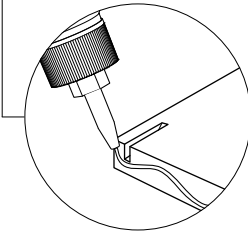
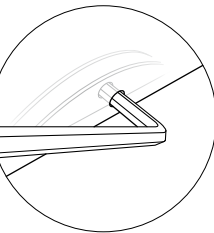
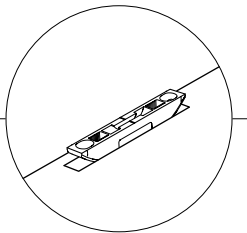
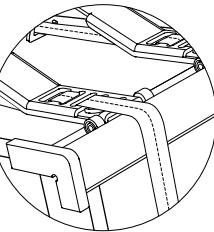
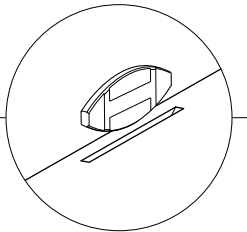
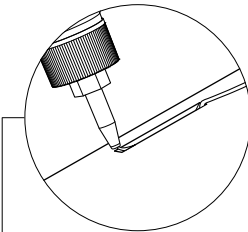
CNC processing centres with **consoles**




CNC processing centres with **nesting technology**



CNC processing centres **vertical**





A man with short dark hair, smiling, wearing a blue zip-up sweater. He is holding a thick wooden board with his left hand. In his right hand, he holds two black curved brackets and two small screws. The background is a workshop with various tools and equipment.

*« Dividing large rear panels for transport  
and reconnecting them on site?  
Very easy with the Clamex S-20. »*

Simon Jeggli, Killer AG, Lupfig, Switzerland



# Lamello System

Applications

## Furniture manufacturing



## Interior fitting





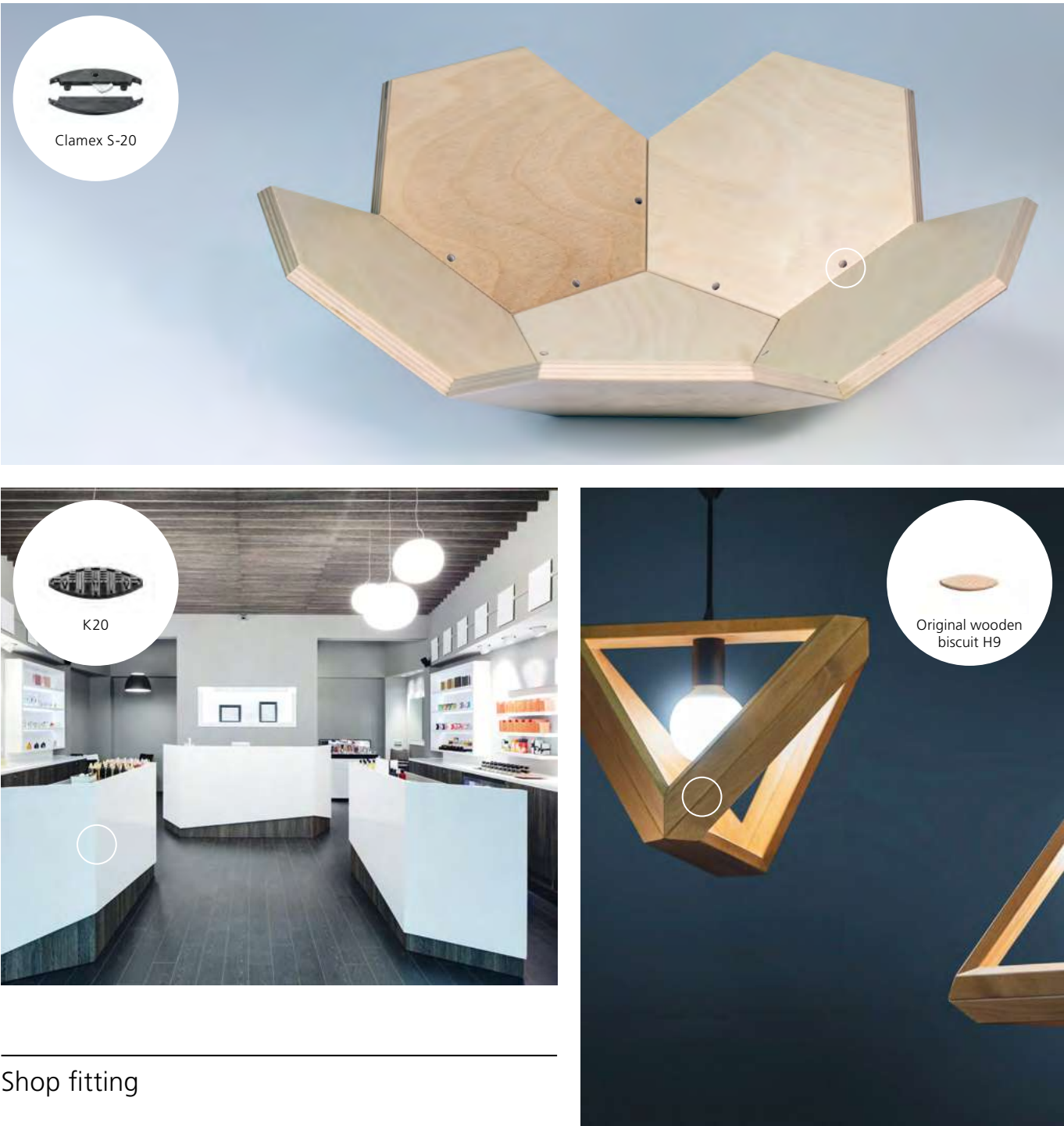
# Lamello System

Applications

## Kitchen manufacturing



## Commercial joinery



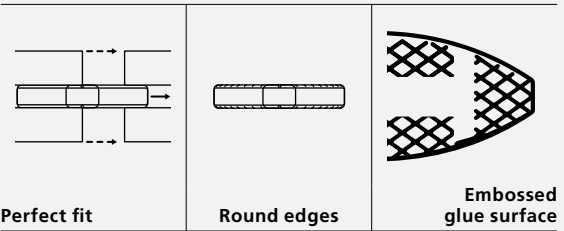


# Original wood biscuit

The original wood biscuit that always fits







## Features



- Original wooden biscuit for joints in wood and panel materials
- Proven system for angle and miter joints from 22.5° to 180°
- Four sizes for a wide range of applications
- Optimized surface structure for perfect fitting accuracy and glue distribution
- Ideal for various applications in furniture construction and interior fittings

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

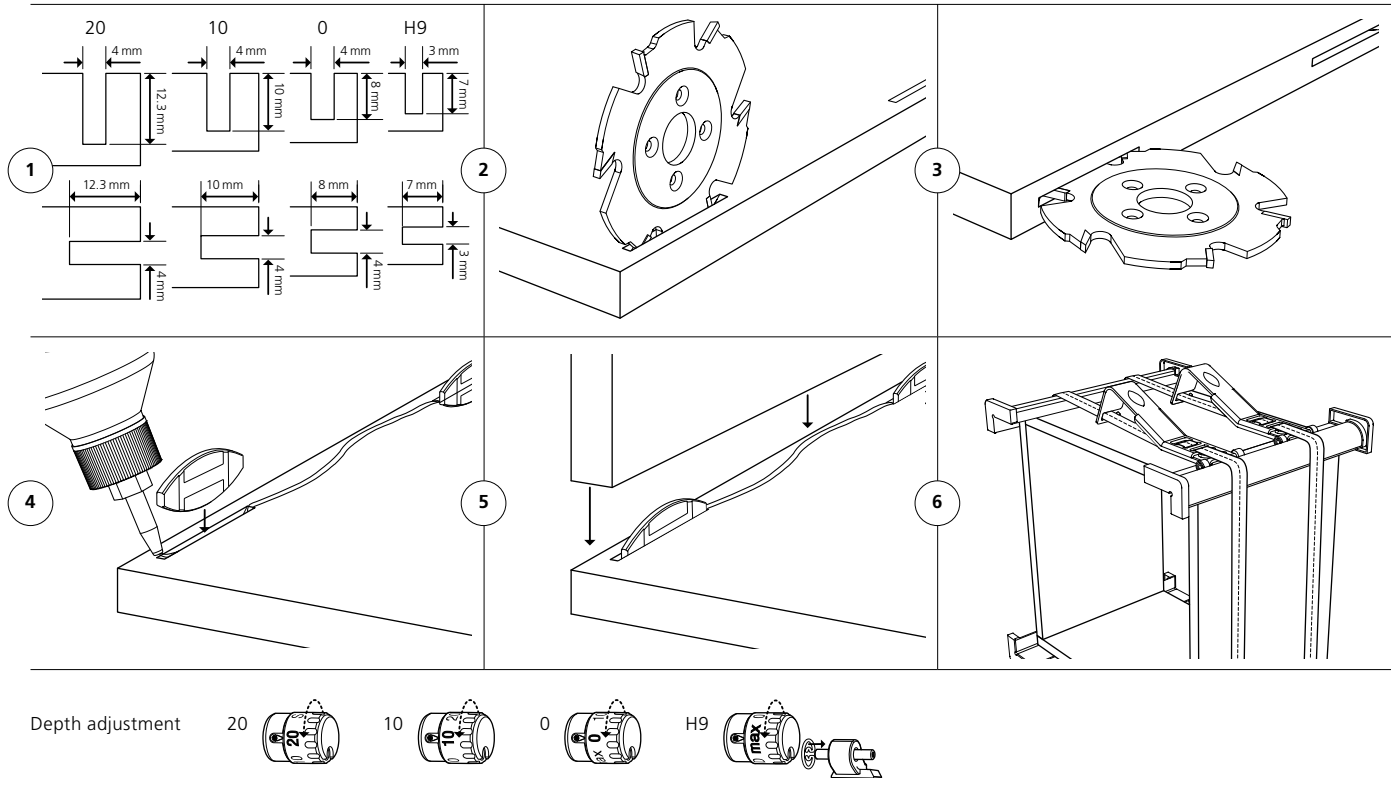
	Art. No.
Original wood biscuit 20, 1000 pieces	<b>144020</b>
	
Original wood biscuit 10, 1000 pieces	<b>144010</b>
	
Original wood biscuit 0, 1000 pieces	<b>144000</b>
	
Original wood biscuit H9*, 1000 pieces	<b>144009</b>
Original wood biscuit assorted Kit contains: 250 x Original wood biscuit 0, 250 x Original wood biscuit 10, 500 x Original wood biscuit 20	<b>144030</b>

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

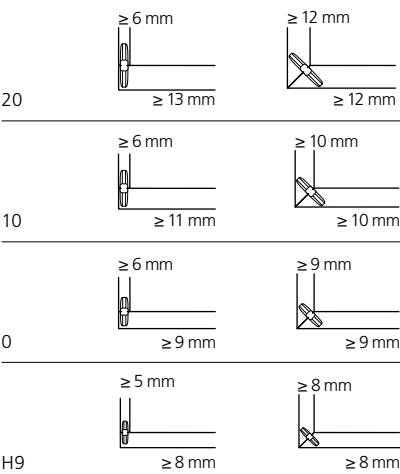
**Matching accessories starting on PAGE 170**



## Installation



## Technical data

<b>Joining methods</b>	Size 20	56 x 23 x 4 mm
	Size 10	53 x 19 x 4 mm
	Size 0	47 x 15 x 4 mm
	Cutter	Ø 100 x 4 x Ø 22 mm
	Size H9	38 x 12 x 3 mm
	Cutter	Ø 78 x 3 x 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 114–115** for technical specifications

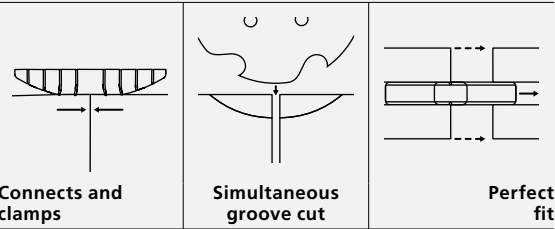


# E20

The self-clamping element




## Features




- Self-clamping leement in size 20 for gluing
- Connects and tensions the joint when hammered into the 4 mm groove
- Two versions for surface or edge connections
- Efficient machining thanks to simultaneous cutting of both workpieces
- Ideal for picture frames, plinth extensions, connection solution on the construction site

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.

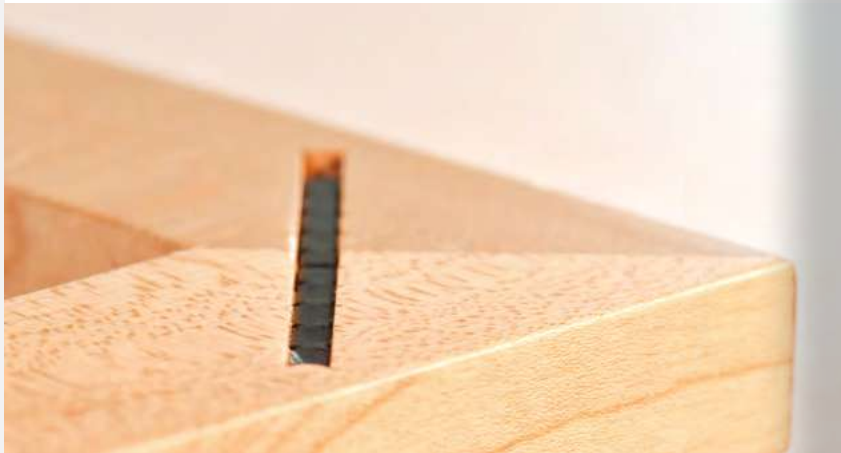
## Articles

	Art. No.
E20-H self-clamping element, 80 pieces	145021
E20-H self-clamping element, 400 pieces	145026
E20-H self-clamping element, 1200 pieces	145028

	
E20-L self-clamping element, 80 pieces	145022
E20-L self-clamping element, 400 pieces	145025
E20-L self-clamping element, 1200 pieces	145027

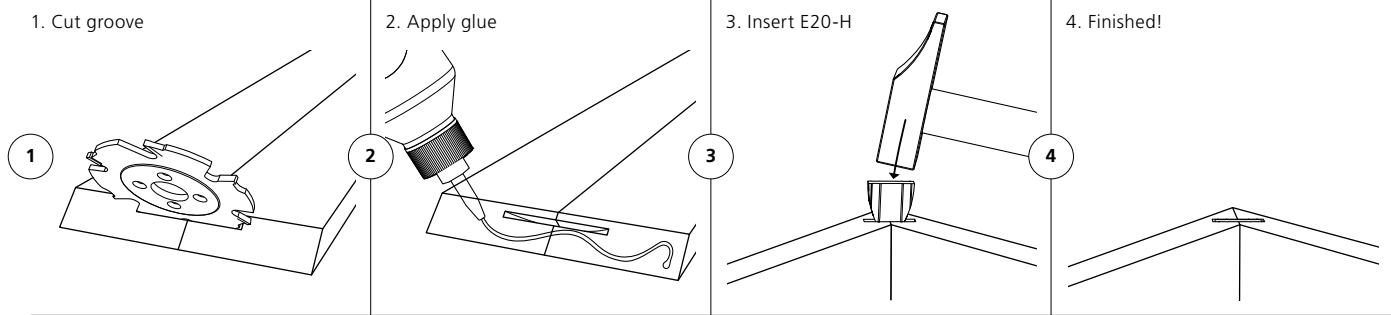
E20-L/E20-H self-clamping element assorted, 40/40 pieces	145020
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Matching accessories starting on [PAGE 170](#)



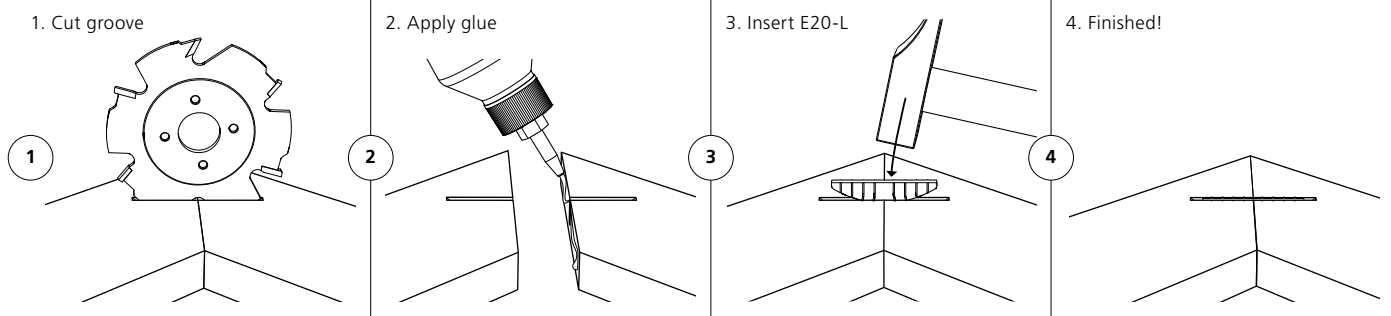
## Installation

### E20-H





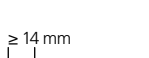
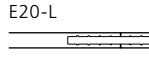
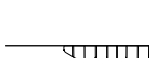
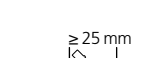

Depth adjustment E20-H 

### E20-L



Depth adjustment E20-L  /  / 

## Technical data

<b>Joining methods</b>  E20-H  $\geq 8\text{ mm}$   $\geq 29\text{ mm}$   $\geq 14\text{ mm}$  E20-L  $\geq 8\text{ mm}$   $\geq 13\text{ mm}$   $\geq 25\text{ mm}$   $\geq 25\text{ mm}$	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 117](#) for technical specifications



# Clamex S-20

Detachable furniture connector for the 4 mm groove



## Features

Detachable	4 mm installation principle	Thin materials

- Detachable furniture connector with 4 mm thickness, fastened with screws
- Size 20, ideal for thin materials, from 14 mm material thickness
- Aesthetic look with the barely visible 6 mm access hole
- All angle and miter joints from 22.5° to 180°
- Ideal for furniture with slopes, thin materials, kitchen worktops in HPL

Clamex S-20 is a detachable connector for the Lamello system for material thicknesses from 16 mm and is fastened in the groove with screws. The symmetric 4 mm grooves can be created with any biscuit joiner. Clamex S-20 is connected to the counterpart with a lever and has a lateral installation tolerance. It requires no adhesive, enables aesthetic connections at all angles and is ideal for fixed or detachable connections.

## Articles

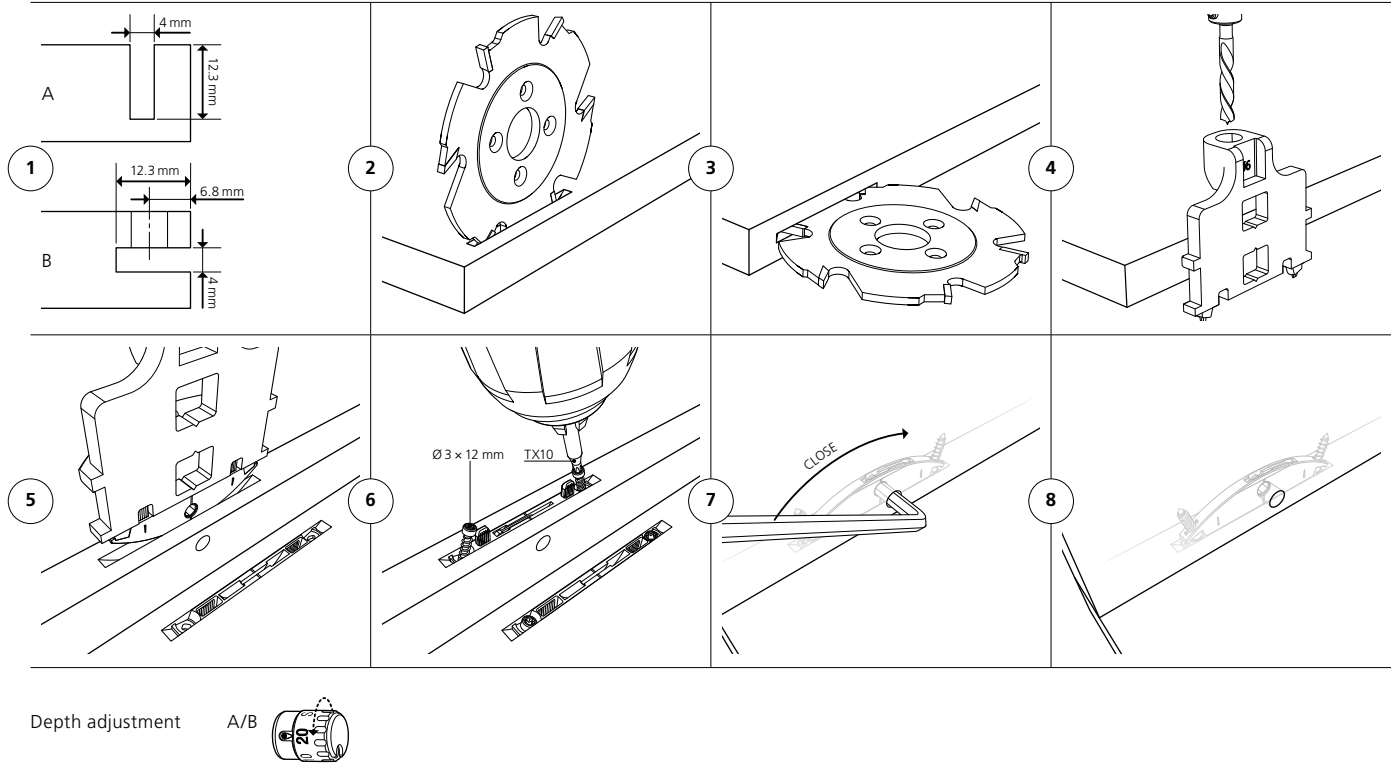
	Art. No.
Clamex S-20, 20 pairs, incl. screws	145243
Clamex S-20, 80 pairs, incl. screws	145244
Clamex S-20, 300 pairs	145245
Clamex S-20, 1000 pairs	145246
Clamex S-20 screw Ø 3 x 12 mm, 1500 pieces	125255

Clamex S-20 Starter set, in Systainer <sup>3</sup> M 137	145247
Scope of delivery: 145244 Clamex S-20, 80 pairs, incl. screws, 125253 Clamex S-20 drill jig incl. drill Ø 6 mm, 251993 Clamex P Installation tool	

Matching accessories starting on PAGE 170



## Installation



## Technical data

Joining methods	Size	59 x 12 x 3.9 mm		
	Cutter	Ø 100 x 4 x 22 mm		
	Material connector	Fiberglass reinforced plastic		
	Material of lever	Zinc die cast		
	Screw	3 x 12 mm		
	Installation tolerance	Long. ± 1 mm/radial ± 0 mm		
	Clamping force (N) Up to	MDF 680 <sup>1</sup>	Particle board 490 <sup>1</sup>	Beech 620 <sup>1</sup>
Material range		Particle board, MDF, plywood, hardwood, HPL etc.		

See PAGE 116 for technical specifications | <sup>1</sup> See comment on load limits on PAGE 185

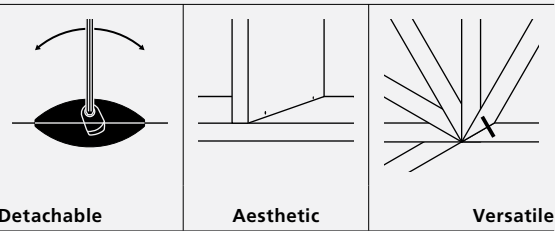


# Clamex S-18

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



## Features



- Detachable furniture connector with 8 mm thickness, fastened with screws
- Aesthetic look with the barely visible 6 mm access hole
- All angle and miter joints from 22.5° to 180°
- High clamping force for perfectly closed joints
- Ideal for open shelves, cupboards or wardrobes under sloping roofs

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

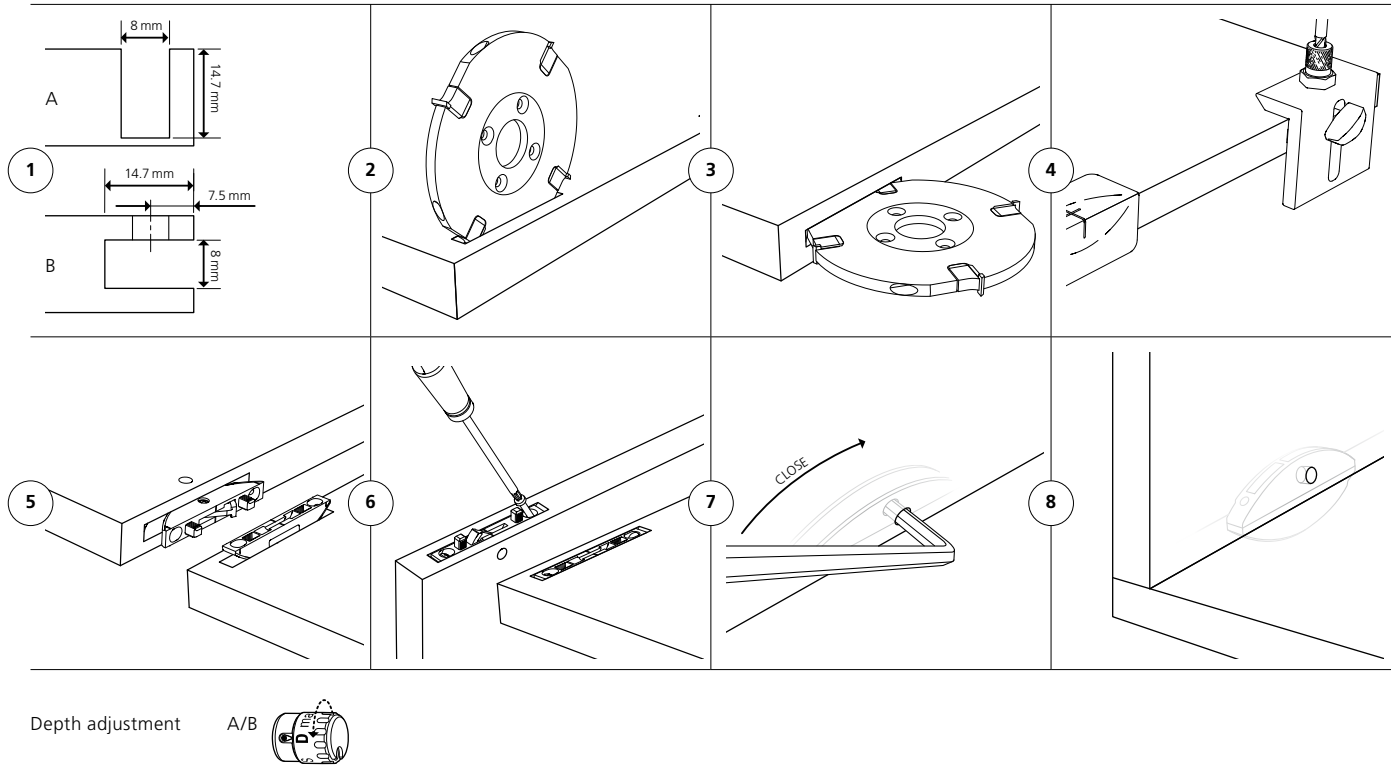
	Art. No.
Clamex S-18, 18 pairs, incl. marking jig and screws	<b>145231</b>
Clamex S-18, 80 pairs, incl. marking jig	<b>145236</b>
Clamex S-18, 300 pairs, incl. marking jig	<b>145241</b>
Clamex S-18, 1000 pairs, incl. marking jig	<b>145251</b>

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

Matching accessories starting on **PAGE 170**



## Installation



Depth adjustment A/B

## 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	3 × 16 mm		
	Installation tolerance	Long. ± 1.0 mm		
	Clamping force (N) Up to	MDF 790 <sup>1</sup>	Particle board 550 <sup>1</sup>	Beech 1420 <sup>1</sup>
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 116** for technical specifications | <sup>1</sup> See comment on load limits on **PAGE 185**

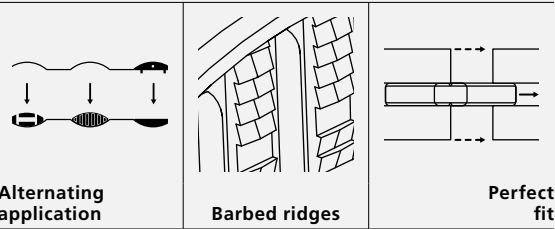


# K20

The clamping element, which holds the workpiece in position




## Features



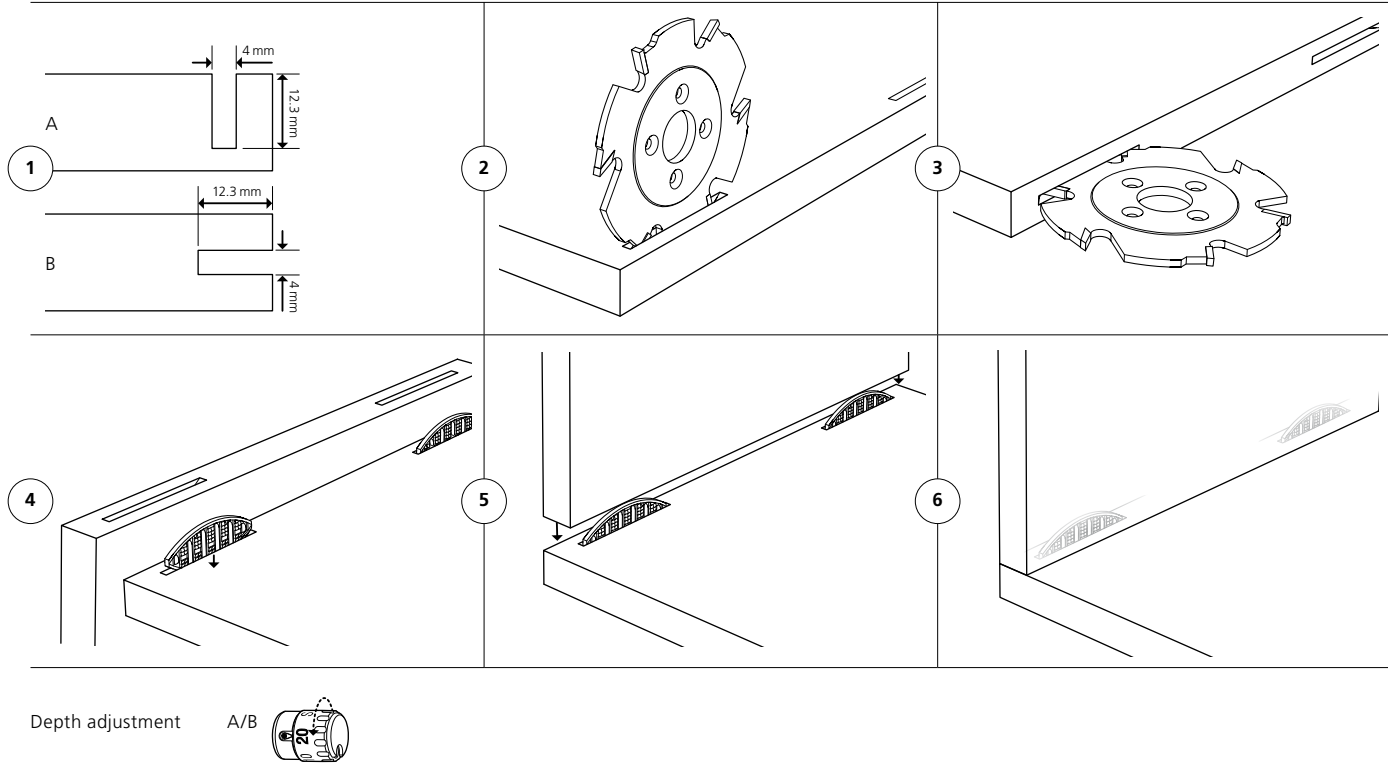
- Clamping element in size 20 for gluing
- Lateral barbed ribs hold components in position
- Application in combination with wooden biscuits for high joint strength
- All angle and miter joints from 22.5° to 180°
- Ideal for fillers or covers

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 themselves 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

	Art. No.
K20 clamping element, 80 pieces	<b>145001</b>
K20 clamping element, 250 pieces	<b>145000</b>
K20 clamping element, 2500 pieces	<b>145000I</b>

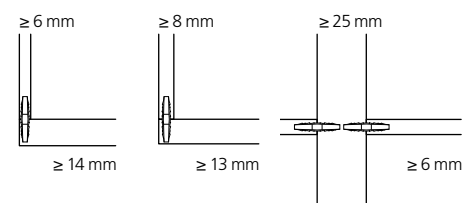
## Installation



Matching accessories starting on **PAGE 170**



## Technical data

<b>Joining methods</b> 	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 117** for technical specifications






# C20/C10

The transparent element





## Features

		
Transparent	No swelling	Perfect fit

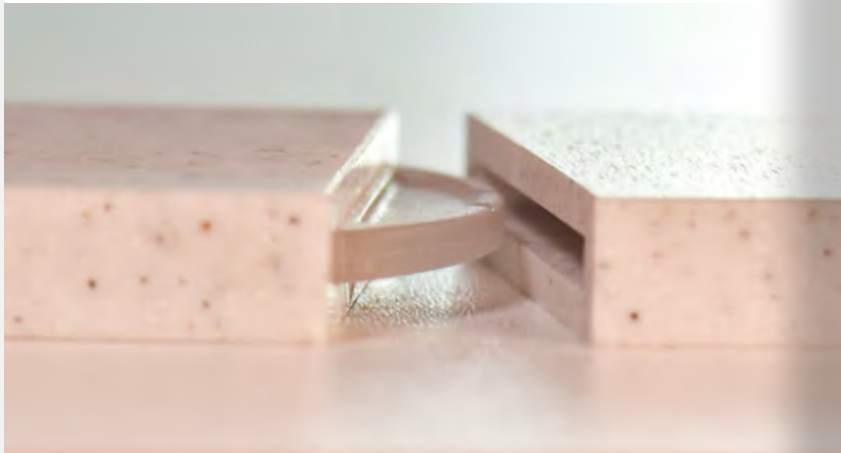
- Transparent plastic biscuit for solid surface materials
- No show-through of the connector in thin, white solid surface materials
- No swelling in contact with moisture
- All angle and miter joints from 22.5° to 180°
- Ideal for store counters, kitchen tops and for wet or outdoor areas

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.

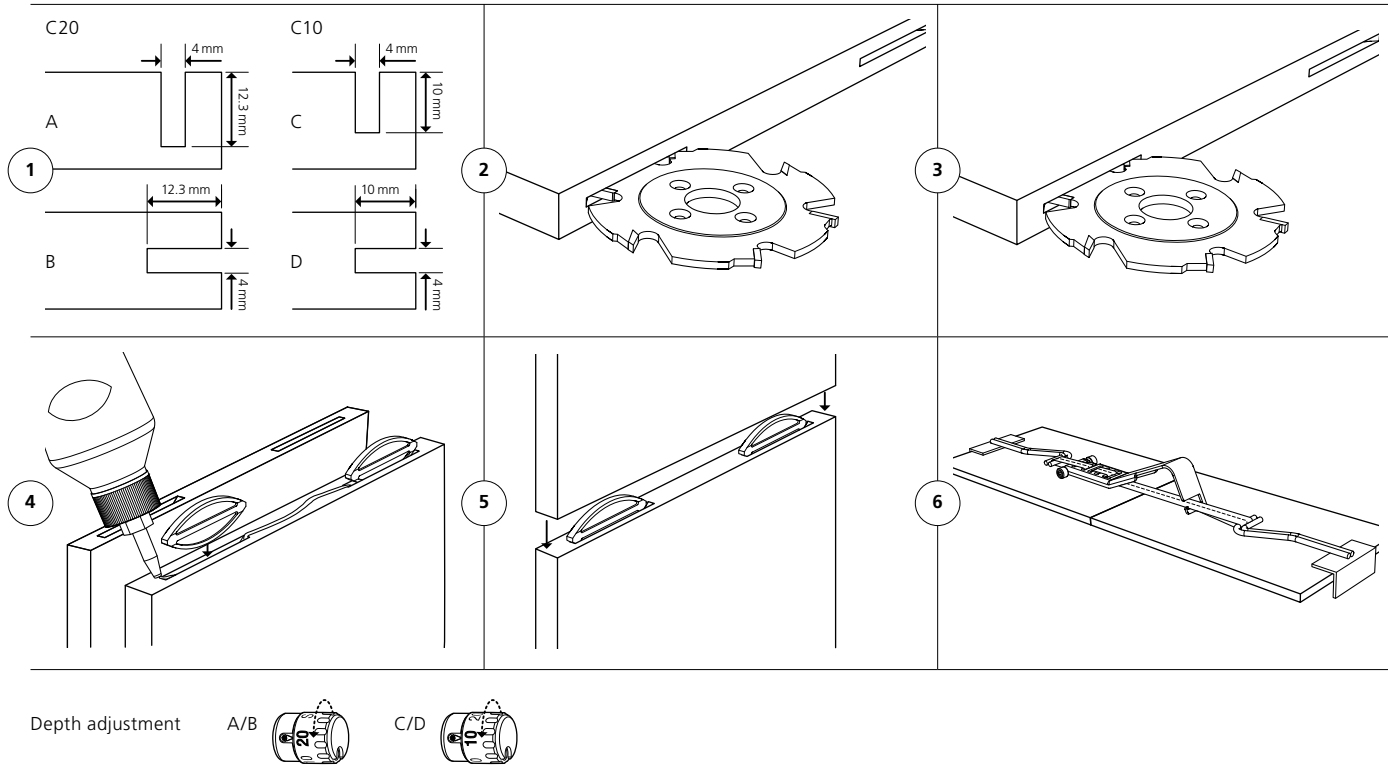
## Articles

	Art. No.
C20 transparent element, 250 pieces	145010
C20 transparent element, 2500 pieces	145010I
	
C10 transparent element, 300 pieces	145012

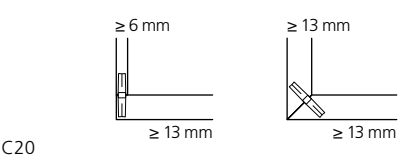
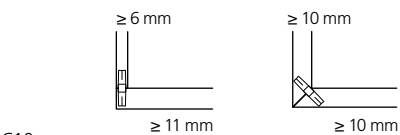
Matching accessories starting on PAGE 170



## Installation



## Technical data

<b>Joining methods</b>	Size C20	61 × 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 115 for technical specifications

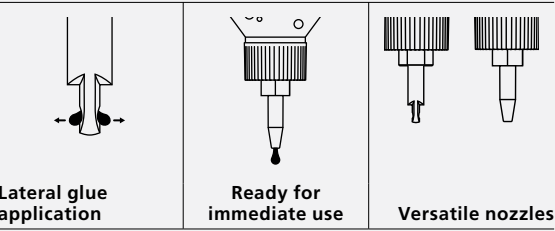


# Minicol

The all purpose glue applicator



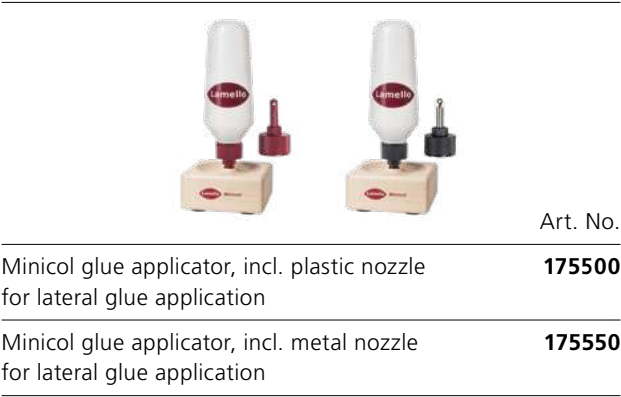
## Features



- Practical glue bottle for applying white glue (PVAC)
- Downward-facing bearing for immediate use
- Lamella nozzle with lateral glue outlet for better distribution
- Pointed nozzle for universal use
- For gluing wooden joints with wooden biscuits

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, incl. plastic nozzle for lateral glue application	Art. No. <b>175500</b>
Minicol glue applicator, incl. metal nozzle for lateral glue application	<b>175550</b>

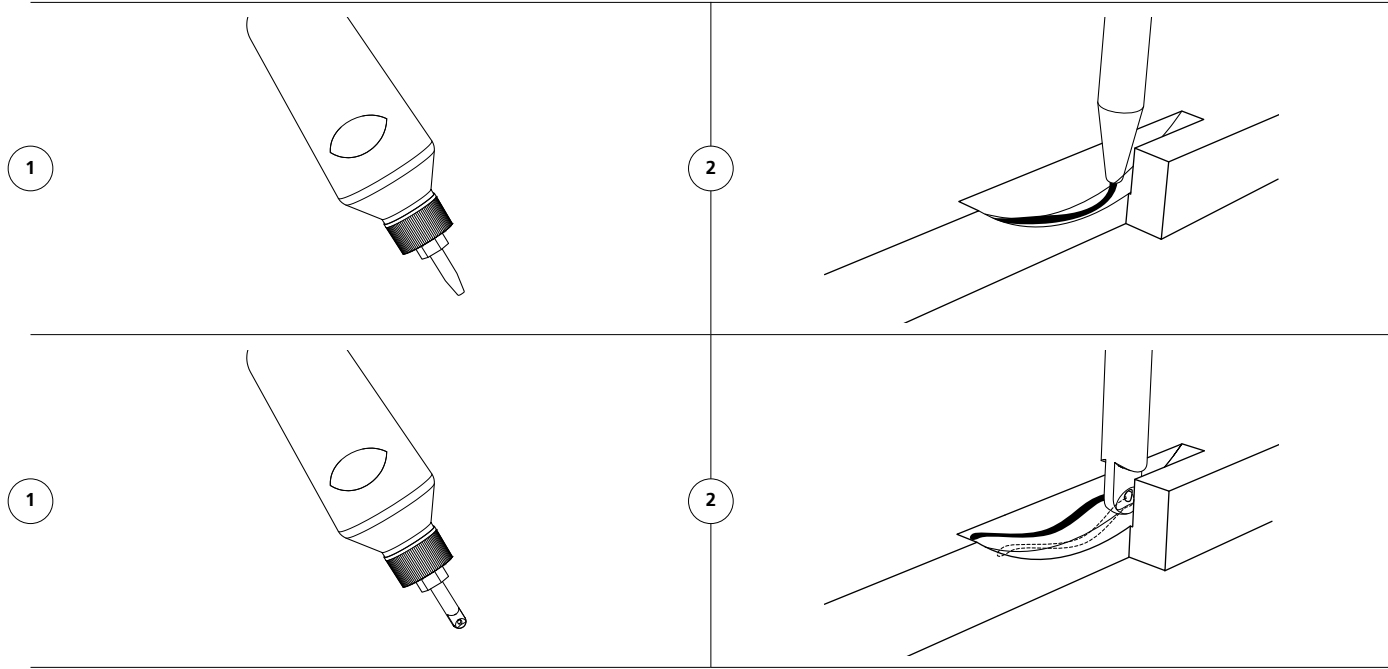


Minicol pointed nozzle	<b>335522</b>
------------------------	---------------



Minicol metal nozzle, for lateral glue application, 4 mm biscuit groove	<b>285512</b>
Minicol metal nozzle H9, for lateral glue application, groove width 3 mm	<b>285509</b>
Minicol plastic nozzle, for lateral glue application, 4 mm biscuit groove	<b>335511</b>

## Function



## Technical data

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

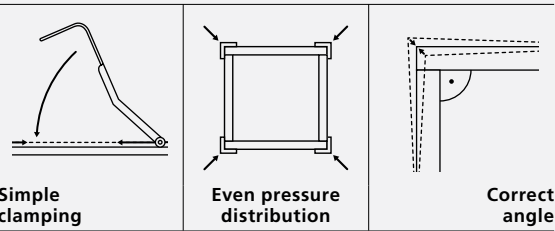


# Clamping Set

Clamping system for cabinets



## Features



- Clamping system for timber joints, suitable for the Lamello system
- Even pressure distribution across all joints
- Automatic clamping at right angles
- Buckle for clamps, clamping straps and edge profiles in various lengths
- For gluing drawers or carcasses

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 20 cm **Art. No. 175021**  
Scope of delivery: 4 pieces profile sections 20 cm, buckle for clamps incl. strap 8 m

Clamping Set 60 cm **Art. No. 175020**  
Scope of delivery: 4 x profile sections 60 cm, 2 x buckles for clamps incl. strap 8 m, 2 x tension hooks



Clamping Set tension hooks **Art. No. 175200**

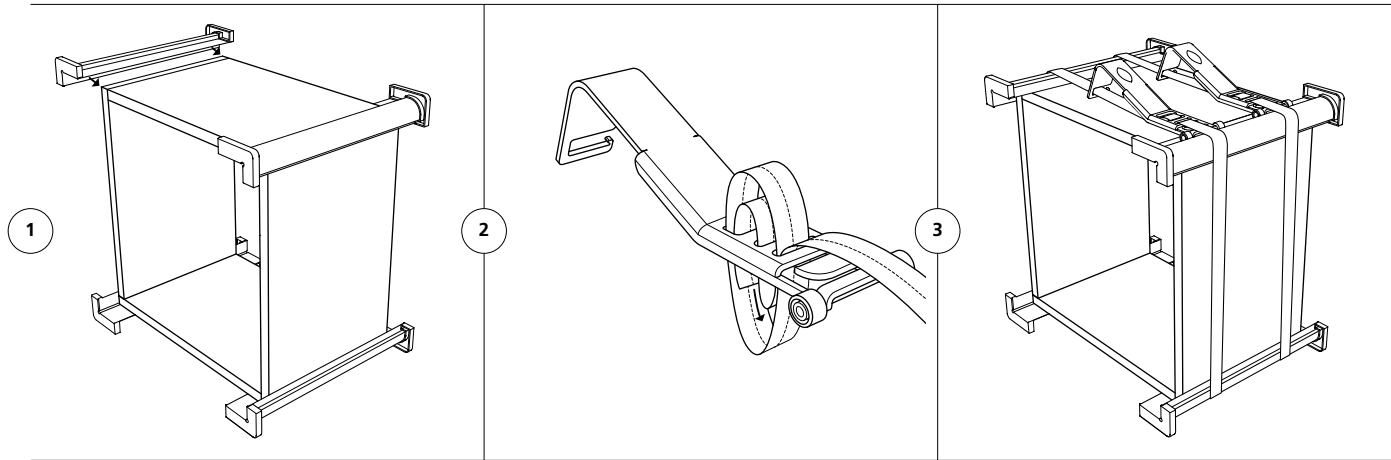


Clamping Set aluminium profiles, 4 pieces, L 12 cm **Art. No. 175401**

Clamping Set aluminium profile, 4 pieces, L 40 cm **Art. No. 175402**

Clamping Set aluminium profiles, 4 pieces, L 60 cm **Art. No. 175403**

## Function



## Technical data

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

Matching accessories starting on PAGE 170



# Classic X cordless

The original biscuit joiner – precise and cordless

## Features

Highest precision	Numerous machining options	Cordless freedom

- Cordless biscuit joiner to produce the 4 mm groove for the Lamello system
- Maximum freedom of movement in the workshop or on the construction site
- Maximum precision for high-quality timber joints
- Multifunctional stop square and swivel stop with fixed pivot point
- Optimum user-friendliness for precise connections

Classic X cordless is the original biscuit joiner without cable to create the 4 mm groove. It is fast, mobile and versatile in use and forms the basis for the wide range of fixed, self-clamping and detachable connectors. Precision in every component leads to perfect accuracy of the workpieces and saves time. The multifunctional stop square enables perfect mitre joints to be made by applying the machine on the exterior surface and stabilises it in vertical position.

## Articles

	<b>CAS</b>
Classic X cordless biscuit joiner, Set, in systainer, incl. batteries, charger type C Euro	Art. No. <b>101701DES</b>
Classic X cordless biscuit joiner, in systainer, without batteries without charger	<b>101700DES</b>
Classic X cordless biscuit joiner, in carton, without batteries without charger	<b>101700DEK</b>
Classic X cordless biscuit joiner, Set, in systainer, incl. batteries, charger plug type G	<b>101701GBS</b>
Classic X cordless biscuit joiner, in systainer, without batteries without charger	<b>101700GBS</b>
Classic X cordless biscuit joiner, in carton, without batteries without charger	<b>101700GBK</b>
Kit contains: Classic X cordless biscuit joiner, 2 x Battery pack 18V, LiHD 4.0 Ah*, Battery charger ASC 55*, suction stub 36 mm, stop square, spacer 4 mm, dust bag, tool set	

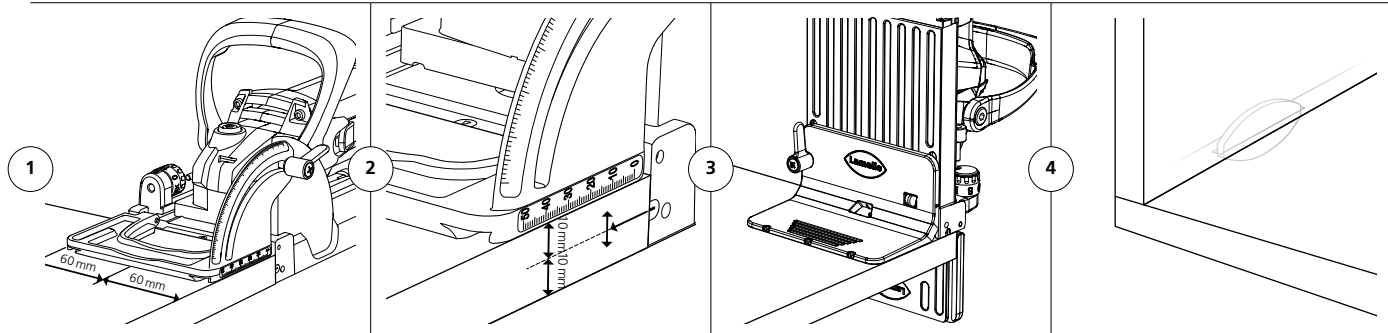
*\* Only included in Art. No. 101701DES/101701GBS  
For other plug versions please contact your local Lamello specialist*



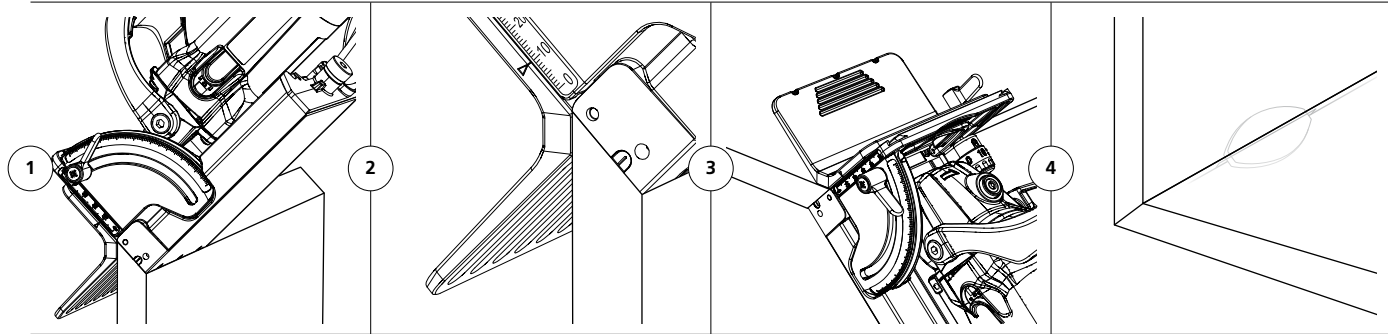
Matching accessories starting on PAGE 170

## Function

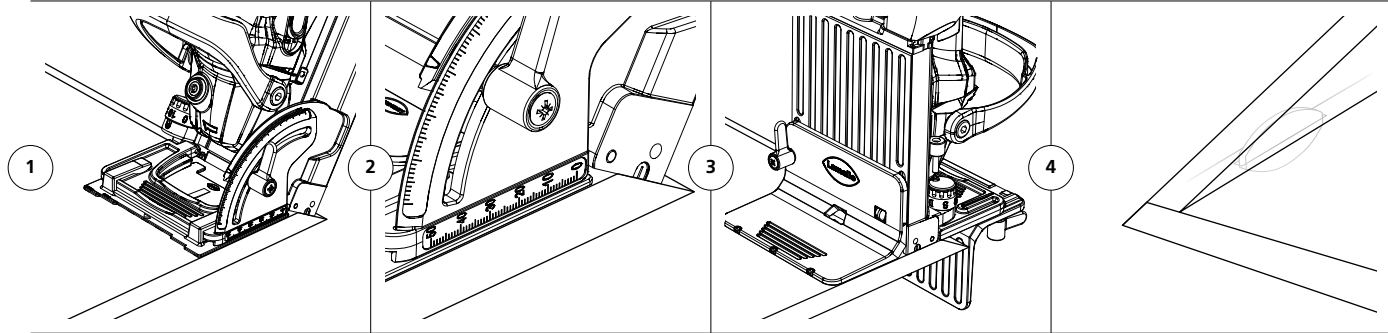
### 90° corner and dividing panel connection



### Miter connection 45° – 180° (struck from the outside)



### Obtuse miter connection 22.5° – 120°



## Technical data

Battery voltage	18 V	Groove width	4 mm
Speed	6 000 min <sup>-1</sup>	Groove depth max.	20 mm
Cutter	Ø 100 x 4 x 22 mm	Weight	3.1 kg incl. battery

More information regarding the battery system on **PAGES 60–63**

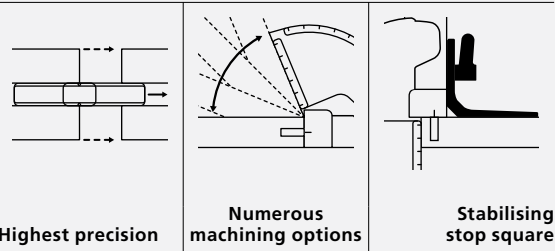


# Classic X

The original biscuit joiner for every workshop



## Features



- Biscuit joiner to produce the 4 mm groove for the Lamello system
- Maximum precision for high-quality timber joints
- Multifunctional stop square and swivel stop with fixed pivot point
- Optimum user-friendliness for precise connections
- Attachment plate for individual adjustment of the groove position

Classic X is the original biscuit joiner from the inventor of the Lamello System for cutting the 4 mm groove. The proven and well-designed Classic X is fast and versatile in its use and the basis for the wide range of connectors with fixed, self-clamping and detachable solutions. Precision in every component leads to perfect accuracy of the workpieces and saves time. The multifunctional stop square allows perfect mitres by applying on the exterior surface and stabilises the machine in vertical position.

## Articles



	Art. No.
Classic X biscuit joiner, plug type F Schuko, in Systainer <sup>3</sup> M	<b>101602DES</b>
Classic X biscuit joiner, plug type F Schuko, in carton	<b>101602DEK</b>
Classic X biscuit joiner, plug type G, in Systainer <sup>3</sup> M	<b>101602GBS</b>
Classic X biscuit joiner, plug type G, in carton	<b>101602GBK</b>
Kit contains: Classic X biscuit joiner, plug type C Euro, suction stub 36 mm, stop square, spacer 4 mm, set of tools	
For other plug versions please contact your local Lamello specialist	

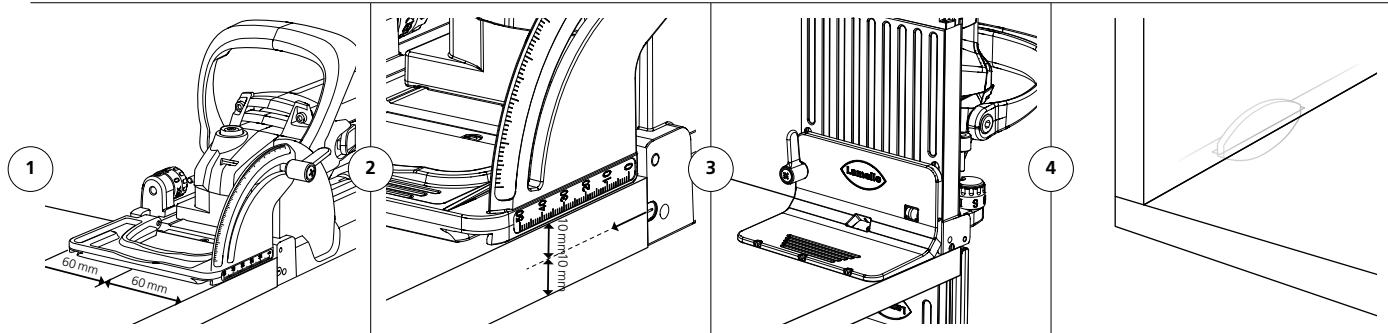


Matching accessories starting on **PAGE 170**

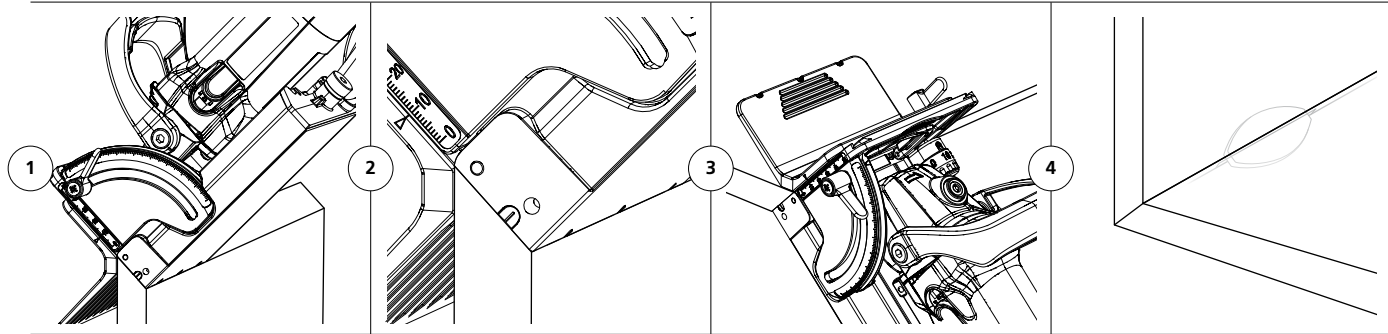


## Function

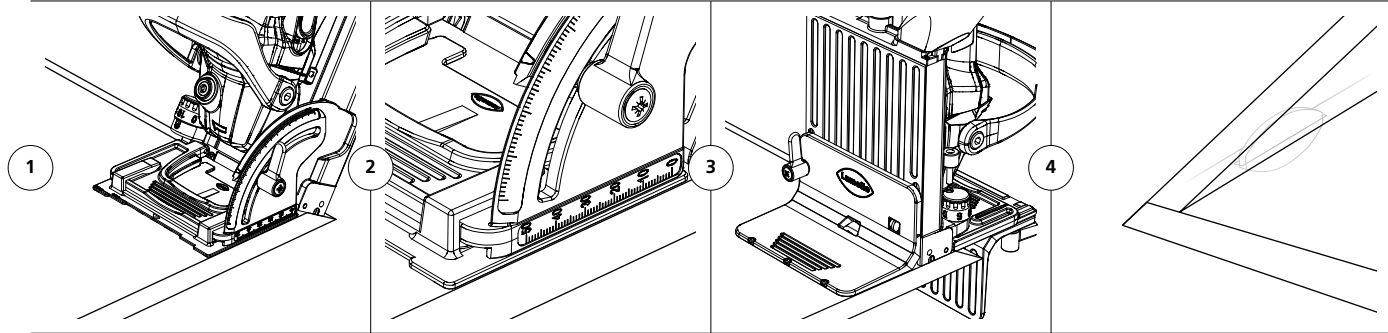
### 90° corner and dividing panel connection



### Miter connection 45° – 180° (struck from the outside)



### Obtuse miter connection 22.5° – 120°



## Technical data

Power/Voltage	850 W/230 V or 120 V	Teeth	Z6 (3+3) with reversing teeth
Speed	10 000 min <sup>-1</sup>	Cutting depth max	20 mm
Cutter	Ø 100 × 4 × Ø 22 mm	Weight	2.9 kg

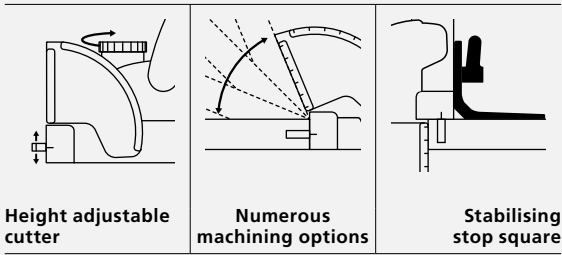


# Top 21

The original biscuit joiner with height adjustable blade from the inventor



## Features



- Biscuit joiner with height adjustment for producing of the 4 mm groove
- Maximum precision for high-quality timber joints
- Multifunctional stop square and swivel stop with fixed pivot point
- Optimum user-friendliness for precise connections
- Positioning of the groove in the centre of the workpiece, connections with protruding edge

Top 21 is the biscuit joiner from the inventor of the Lamello System and includes a height adjustable blade for cutting the 4 mm groove. The unique height adjustment of the cutter in steps from 0.1 mm to max. 4 mm allows positioning the groove in the middle of the material thickness. Precision in every component leads to perfect accuracy of the workpieces and saves time. The multifunctional stop square allows perfect mitres by applying on the exterior surface and stabilises the machine in vertical position.

## Articles

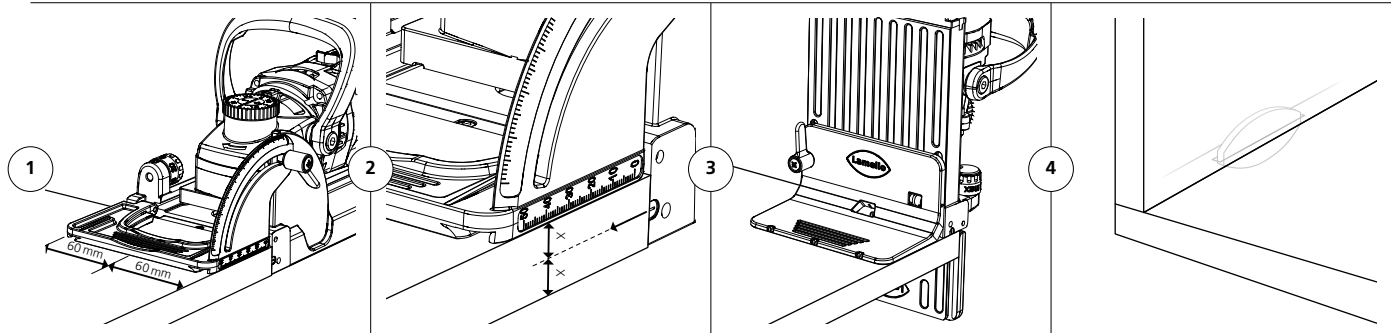
	Art. No.
Top 21 biscuit joiner, plug type F Schuko, in Systainer <sup>3</sup> M	<b>101501DES</b>
Top 21 biscuit joiner, plug type G, in Systainer <sup>3</sup> M	<b>101501GBS</b>
Top 21 biscuit joiner, plug type F Schuko, in Systainer <sup>3</sup> M with WS-cutter	<b>101501DESW</b>
Kit contains: Top 21 biscuit joiner, plug type F Schuko, suction stub 36 mm, carbide reversing blade cutter, spacer 4 mm, set of tools, stop square, dust bag	
For other plug versions please contact your local Lamello specialist	

Matching accessories starting on PAGE 170

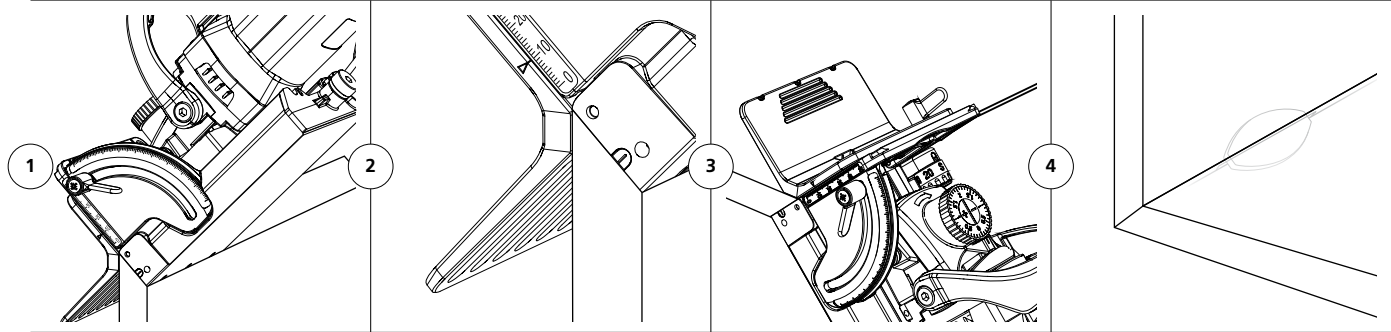


## Function

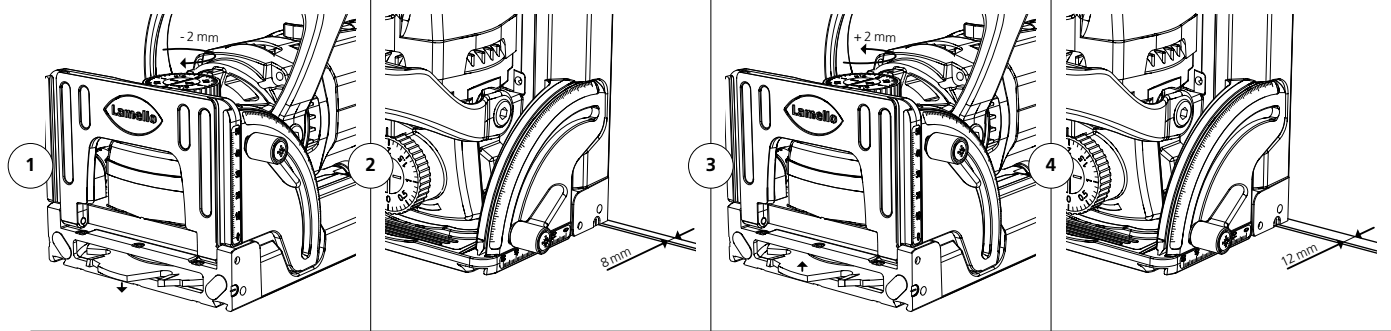
### 90° corner and dividing panel connection



### Miter connection 45° – 180° (struck from the outside)



### Height-adjustable cutter



## Technical data

Power/Voltage	1 050 W/230 V 800 W/120 V	Teeth	Z2 + V4 with scoring teeth
Speed	9 000 min <sup>-1</sup>	Cutting depth max	20 mm
Cutter	Ø 100 x 4 x Ø 22 mm	Weight	3.5 kg



# Original Lamello biscuit joiners

These properties make the difference

## Features

**Multifunctional stop square** included in the kit

**Both sides flush surfaces**

The baseplate, swivelling front and stop square are flush on both sides of the machine for efficient positioning of the biscuit joiner on the work piece's outer edge



**Vertical stability** by attaching to the baseplate to increase the surface



**Perfect precision of mitres** by applying on the outer surface for 22.5 and 45° angles

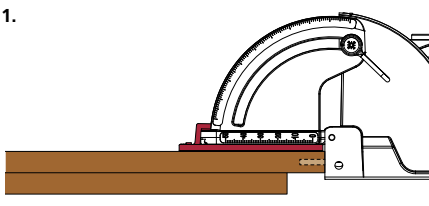


**Variable positioning of the groove** from the application surface 0–50 mm

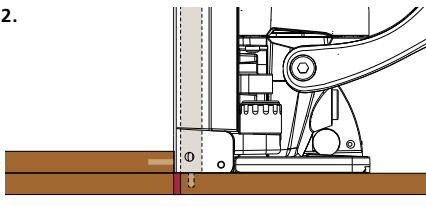
## Swivelling front with fixed rotational point

**Exactly the same referencing distances from either the swivelling front or the base plate = 8 mm**

Allows alternating the application surface from the swivelling front **1.** to the baseplate **2.** Especially important when cutting thin dividing panel connections



**Application with the swivelling front**  
With the 4 mm spacer for 12 mm dividing panel (groove in the centre)



**Application with the baseplate**  
The dividing panel (moved by 4 mm) serves as application surface

- **Safe process** guarantees always precise, parallel grooves
- **No inaccuracies or source of mistakes** because the height cannot be adjusted

## High-precision machined application surfaces



– **CNC machined high-precision application surfaces** for exact application on the workpiece



– **Long-life precision guide** provides exact, parallel grooves for perfect fit of the workpieces

# Versatile use

With various connecting elements

Join workpieces at different angles and in different joining methods with the Classic X and Top 21. Suitable for individual pieces of furniture as well as prototypes and line production.

## With 4 mm Lamello System groove cutter



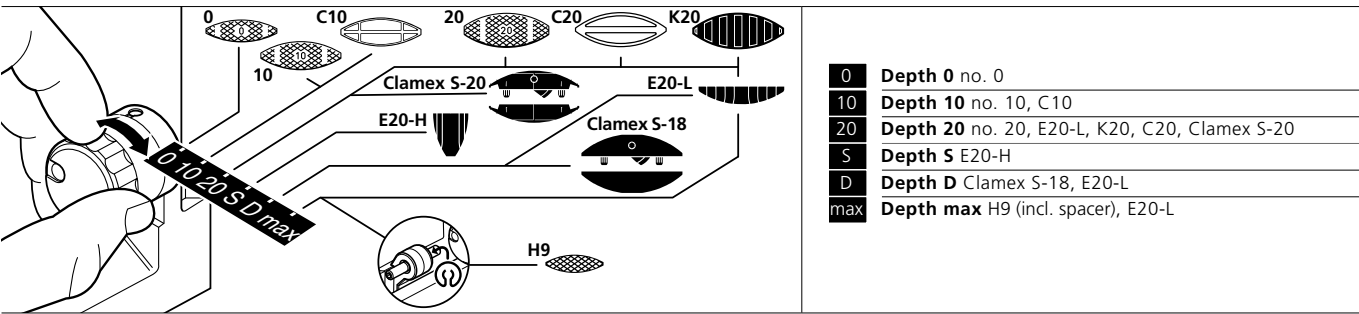
## With 8 mm Lamello System groove cutter



## With 3 mm Lamello System groove cutter



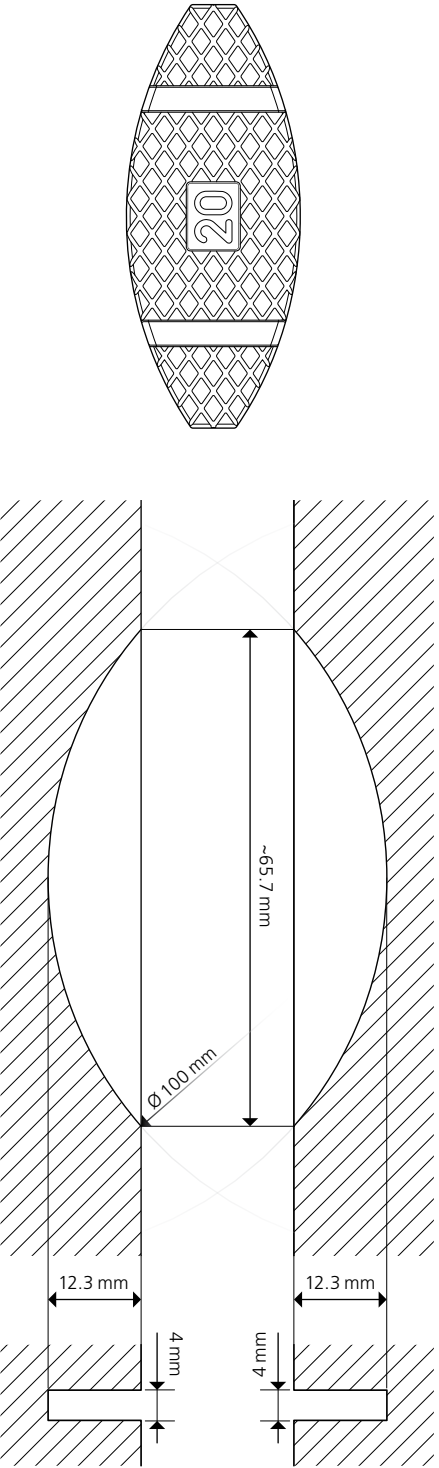
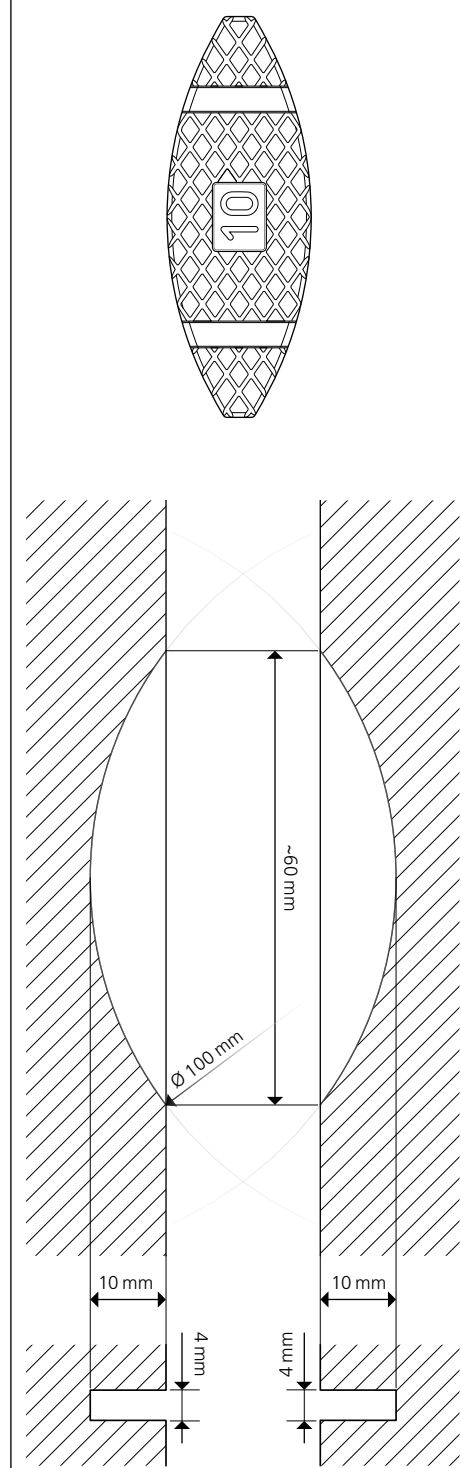
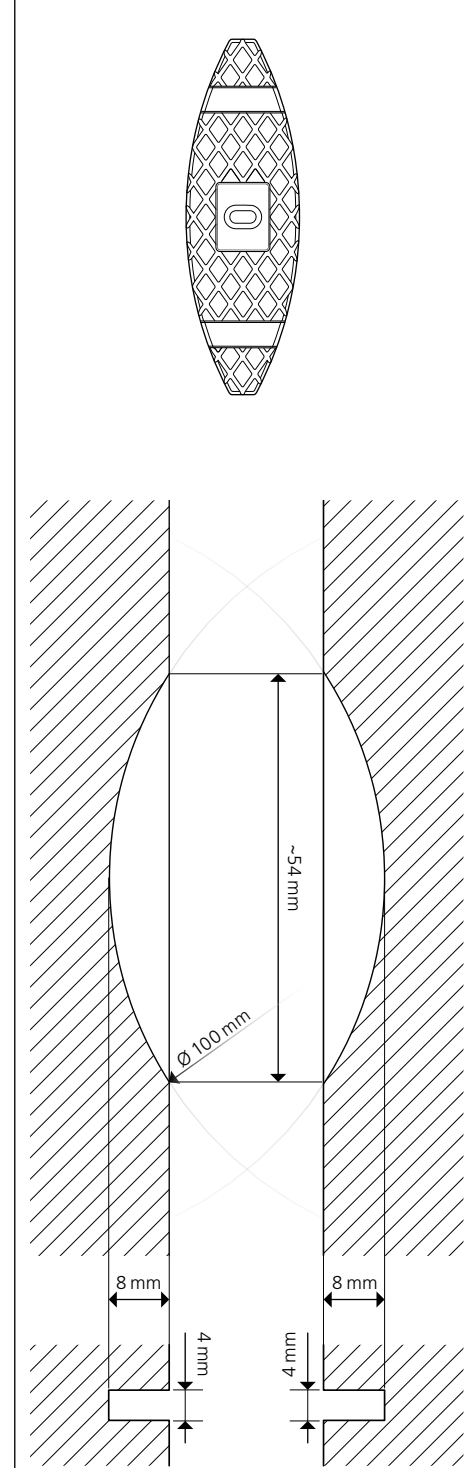
## Lamello depth adjustment system

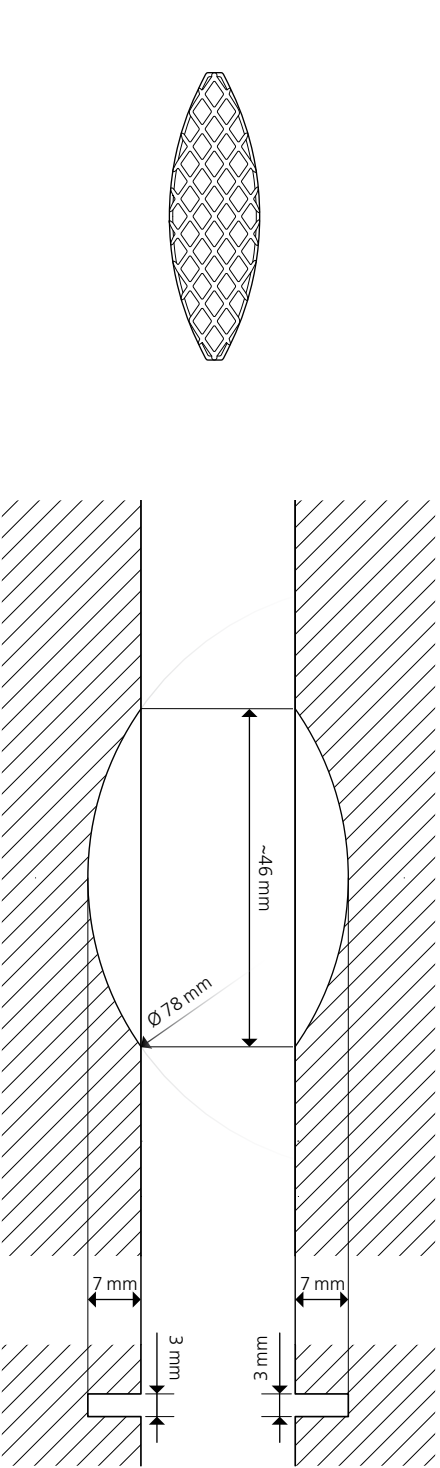
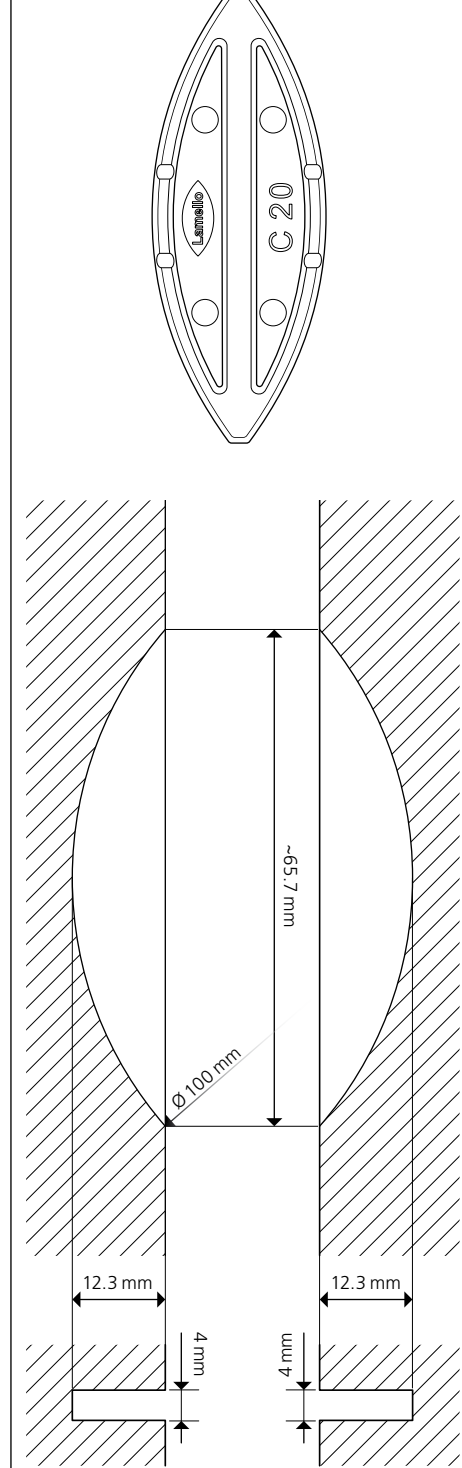
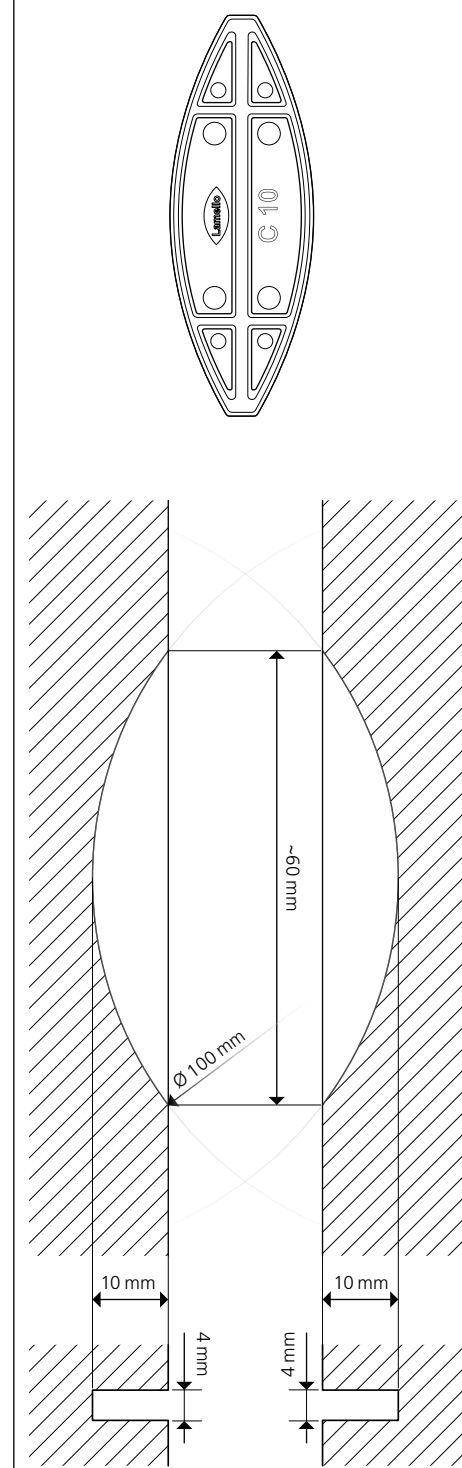




Technical information

Overview of connectors + grooves (scale 1:1)

Original wood biscuit 20	Original wood biscuit 10	Original wood biscuit 0
		
<b>Tensile strength (N)</b> Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

Original wood biscuit H9	C20	C10
		
<b>Tensile strength (N)</b> Depending on the adhesive	<b>Tensile strength (N)</b> Depending on the adhesive	Depending on the adhesive



Technical information

Overview of connectors + grooves (scale 1:1)

Clamex S-20		Clamex S-18	
<b>Tensile strength (N)</b>	Up to	<b>Tensile strength (N)</b>	Up to
MDF	680 <sup>1</sup>	MDF	790 <sup>1</sup>
Particle board	490 <sup>1</sup>	Particle board	550 <sup>1</sup>
Beech	620 <sup>1</sup>	Beech	1420 <sup>1</sup>

K20	E20-H	E20-L
<b>Tensile strength (N)</b>	<b>Tensile strength (N)</b>	<b>Tensile strength (N)</b>
Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

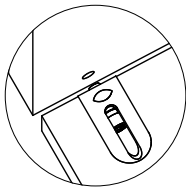


# Drilling System

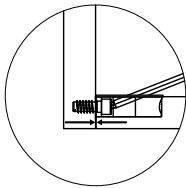
Unique drilling systems for high productive and aesthetic demands



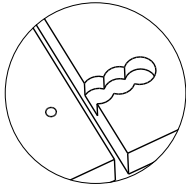
## Features Cabineo



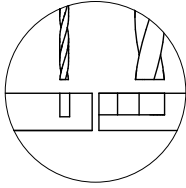
Fast assembly



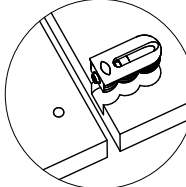
High clamping force



No edge drilling

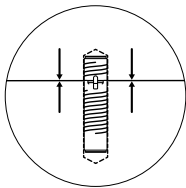


No dowel holes

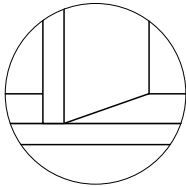


One-piece and pre-installed

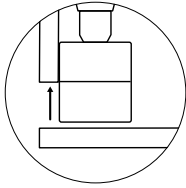
## Features Invis Mx2



High clamping force



Invisible



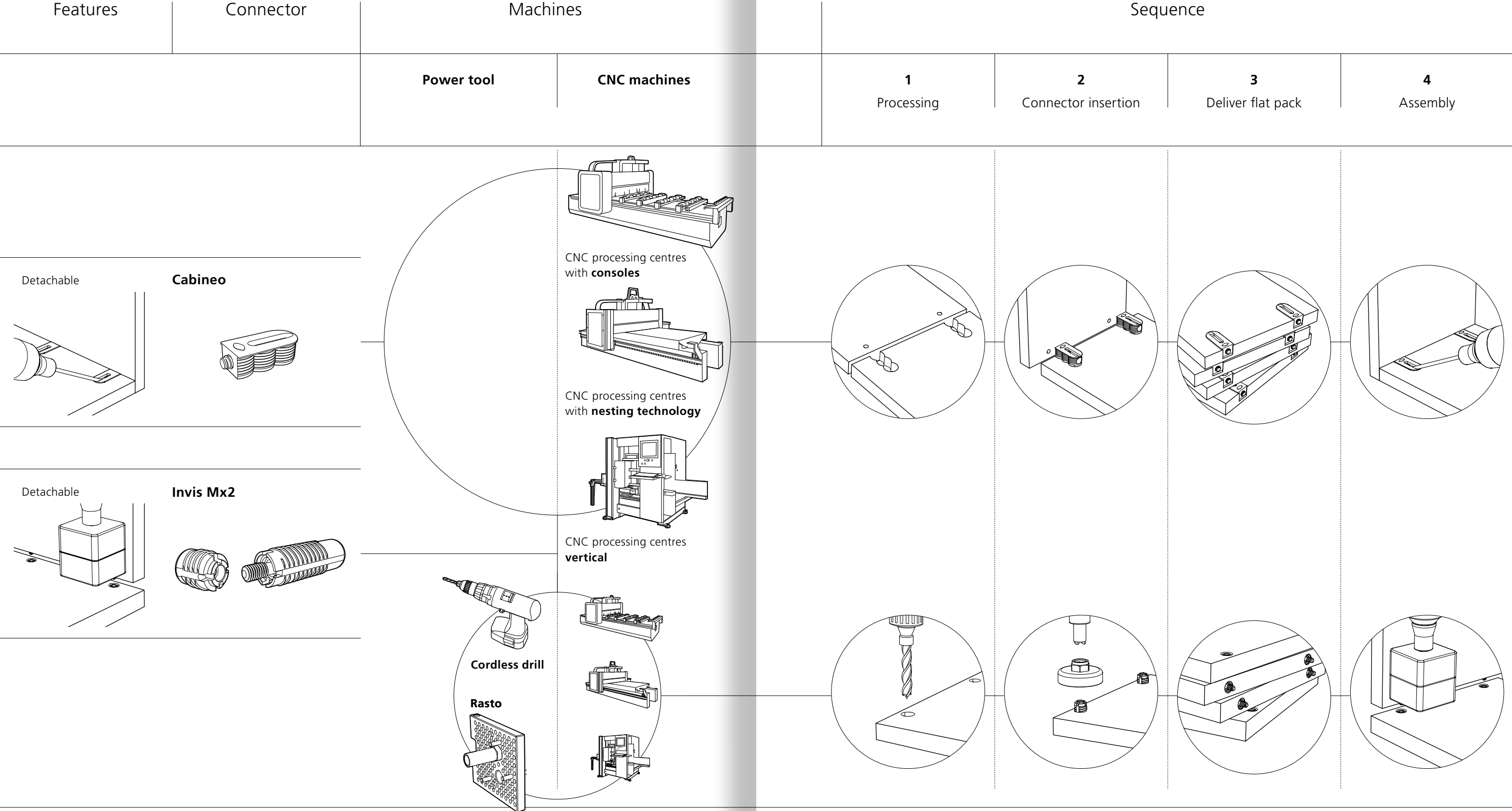
Detachable



# Drilling System

- Cabineo
- Invis Mx2

Overview





« We make a lot of furniture  
with wood and metal.  
The freedom that Cabineo  
offers us in joining these  
two materials is fantastic. »

Chris Wilkens, co-owner of Schreinerei Werkkollektiv, Germany





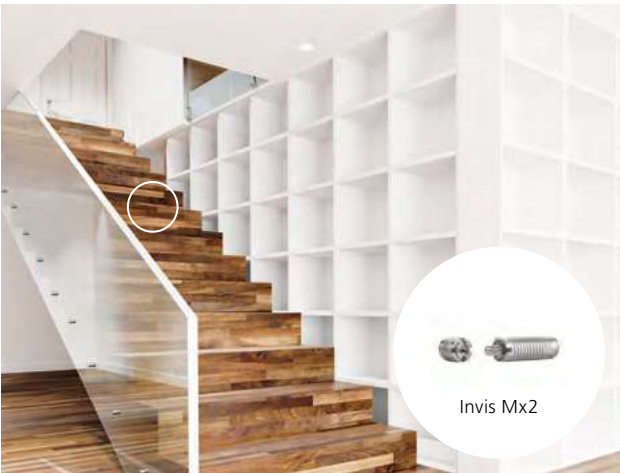
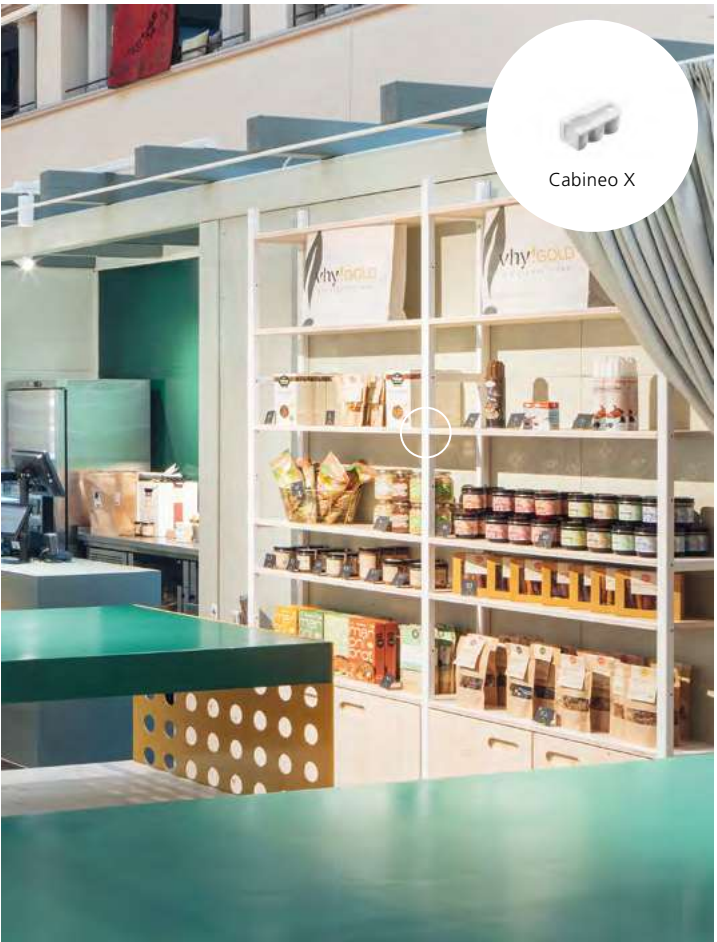
# Drilling System

Applications

## Furniture manufacturing



## Interior fitting





# Drilling System

Applications

Kitchen manufacturing



Commercial joinery



Shop fitting

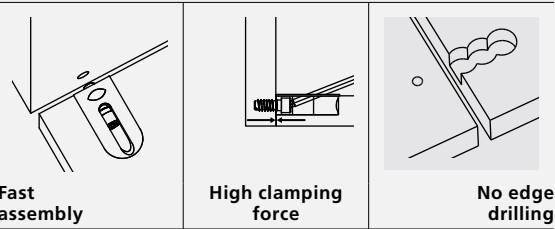


# Cabineo 12

Time-saving cabinet connector  
for corner joints from 13 mm



## Features



- Carcase connectors for time savings throughout the entire production chain
- For every CNC machine thanks to simple machining on the surface
- Perfectly tensioned joints due to the high clamping force
- Elimination of dowel drilling and installation leads to time savings
- Ideal for time-saving, stable carcasses and cabinets

Cabineo 12 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The Cabineo is installed in the board either in the workshop or on site. The pre-assembled screw in the connector is screwed into the 5 mm hole of the second workpiece using a cordless drill. Cabineo impresses with its time-saving processing and assembly as well as the high clamping force which leads to stable connections without the need for additional dowels. Cabineo is available in white or black.

## Articles

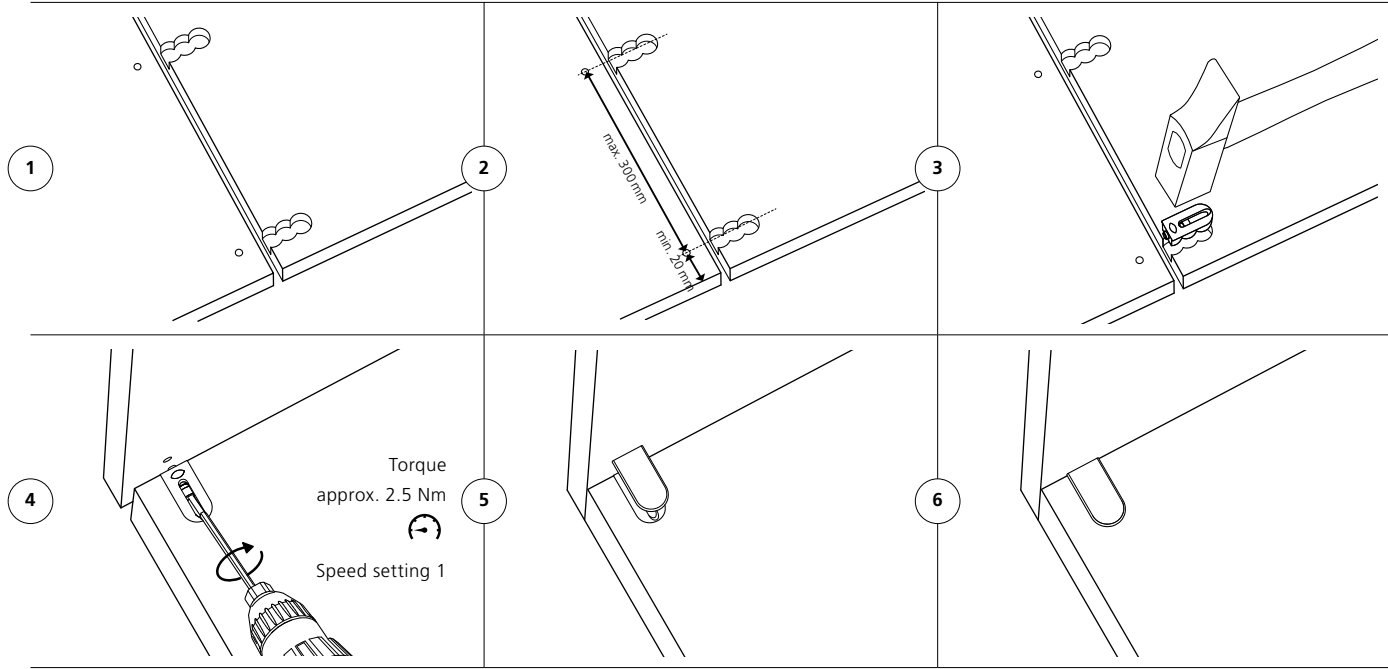
		Art. No.
Cabineo 12, 500 pieces		<b>186320</b>
Cabineo 12, 2000 pieces		<b>186321</b>
Cabineo 12 black, 500 pieces		<b>186330</b>
Cabineo 12 black, 2000 pieces		<b>186331</b>

	Cabineo 8/12 Starter set	<b>186305</b>
Scope of delivery: 40 x Cabineo 8, 40 x Cabineo 12, 40 x Cabineo cover caps, RAL 9003 signal white, Cabineo hexagon bit		

Matching accessories starting on **PAGE 170**



## Installation



## Technical data

Joining methods

Size	33.8 × 16.5 × 10.8 mm	
Screw length	12 mm	
Cutter	Ø 12 mm or smaller	
Drill	Ø 5 mm and Ø 15 mm	
Material housing	Fiberglass reinforced plastic	
Installation tolerance	Long. ± 0.1 mm	
Strength per connector without dowel (N)		
Particle board 19 mm Up to	Tensile strength (N)	Shear strength (N)
	820 <sup>1</sup>	880 <sup>1</sup>
	10 N ~ 1 kg	
Material range	Particle board, MDF, plywood, softwood, hardwood etc.	

See **PAGE 148 – 149** for technical specifications | <sup>1</sup> See comment on load limits on **PAGE 185**

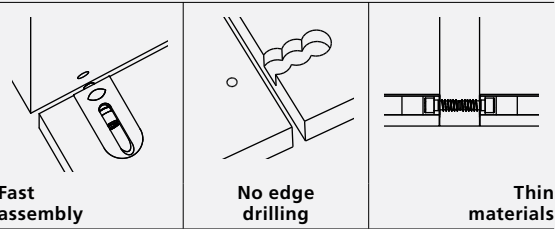


# Cabineo 8

Time-saving cabinet connector  
for centre panels from 16 mm



## Features



- Carcase connectors for time savings throughout the entire production chain
- For material thicknesses from 12 mm and center panels from 16 mm
- For every CNC machine thanks to simple machining on the surface
- Elimination of dowel drilling and installation leads to time savings
- Ideal for time-saving, stable carcasses and cabinets

Cabineo 8 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The Cabineo is installed in the board either in the workshop or on site. The pre-assembled screw in the connector is screwed into the 5 mm hole of the second workpiece using a cordless drill. Cabineo impresses with its time-saving processing and assembly as well as the high clamping force which leads to stable connections without the need for additional dowels. Cabineo is available in white or black.

## Articles

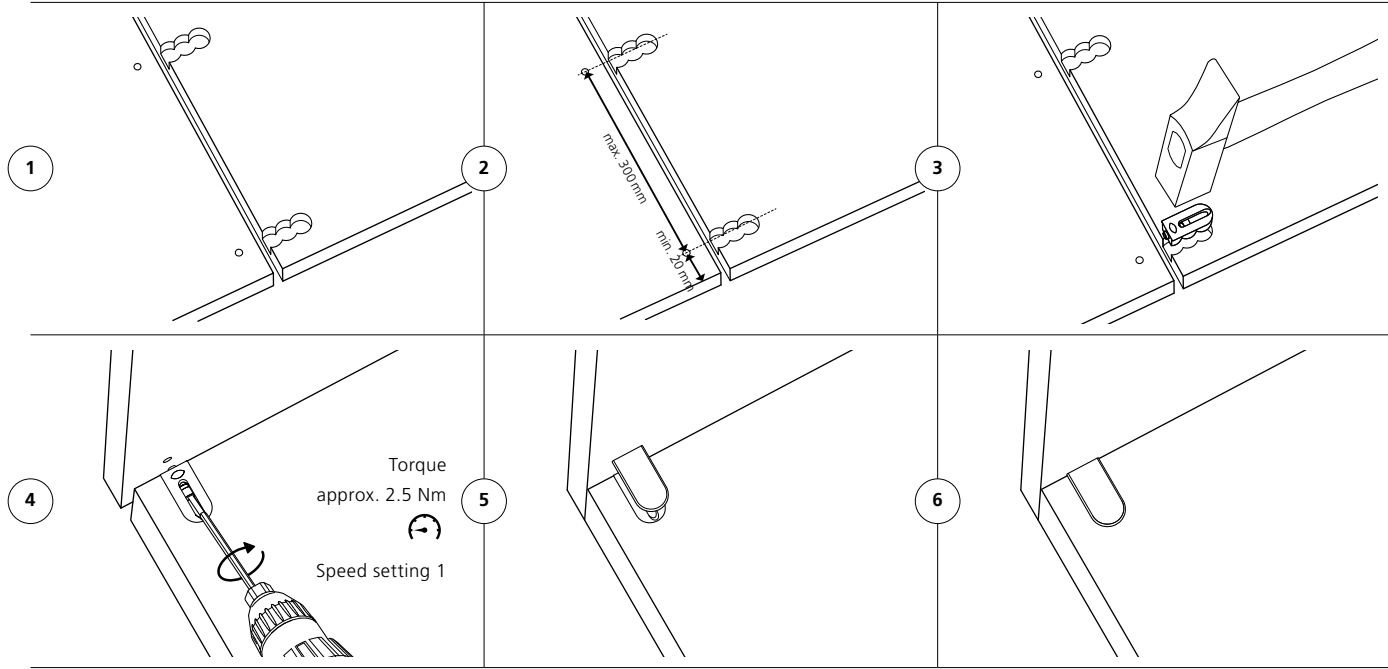
	Art. No.
Cabineo 8, 500 pieces	<b>186310</b>
Cabineo 8, 2000 pieces	<b>186311</b>
Cabineo 8 black, 500 pieces	<b>186340</b>
Cabineo 8 black, 2000 pieces	<b>186341</b>

	<b>186305</b>
Scope of delivery: 40 x Cabineo 8, 40 x Cabineo 12, 40 x Cabineo cover caps, RAL 9003 signal white, Cabineo hexagon bit	

Matching accessories starting on **PAGE 170**



## Installation



## Technical data

Joining methods

Size	33.8 × 16.5 × 10.8 mm	
Screw length	8 mm	
Cutter	Ø 12 mm or smaller	
Drill	Ø 5 mm and Ø 15 mm	
Material housing	Fiberglass reinforced plastic	
Installation tolerance	Long. ± 0.1 mm	
Strength per connector without dowel (N)		
Particle board 19 mm Up to	Tensile strength (N)	Shear strength (N)
	520 <sup>1</sup>	530 <sup>1</sup>
	10 N ~ 1 kg	
Material range	Particle board, MDF, plywood, softwood, hardwood etc.	

See **PAGE 148 – 149** for technical specifications | <sup>1</sup> See comment on load limits on **PAGE 185**

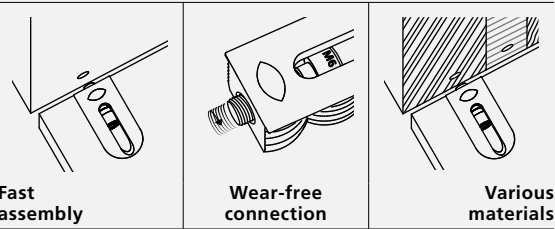


# Cabineo 8 M6

Wear-resistant cabinet connector for various materials and increased strength



## Features



- Time-saving carcass connector with metric screw
- For joining different materials and increased strength
- For every CNC machine thanks to simple machining on the surface
- Elimination of dowel drilling and installation leads to time savings
- Ideal for multiple furniture assemblies without wear and tear

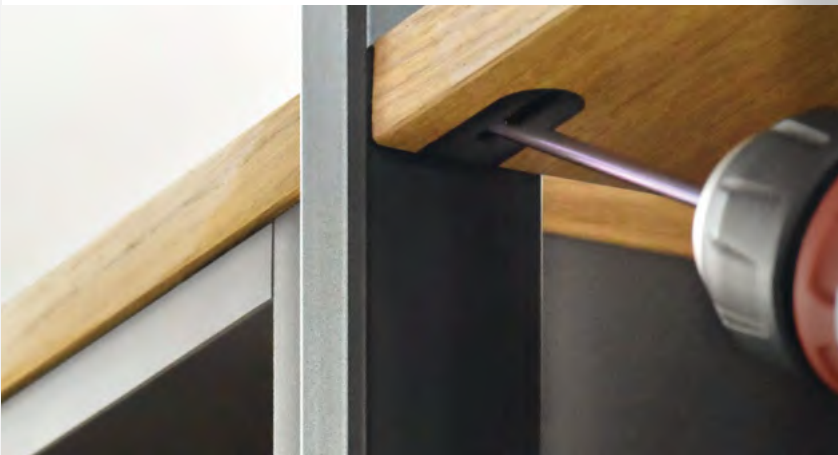
Cabineo 8 M6 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The connector is ideal when joining wood composites with materials such as aluminium, steel or compact laminate. After installing the connector in the board, the pre-assembled metric screw is screwed into a threaded hole or a socket, using a cordless drill. Cabineo impresses with its time-saving processing and assembly as well as the high clamping force which leads to stable connections without the need for additional dowels. Cabineo is available in white or black.

## Articles

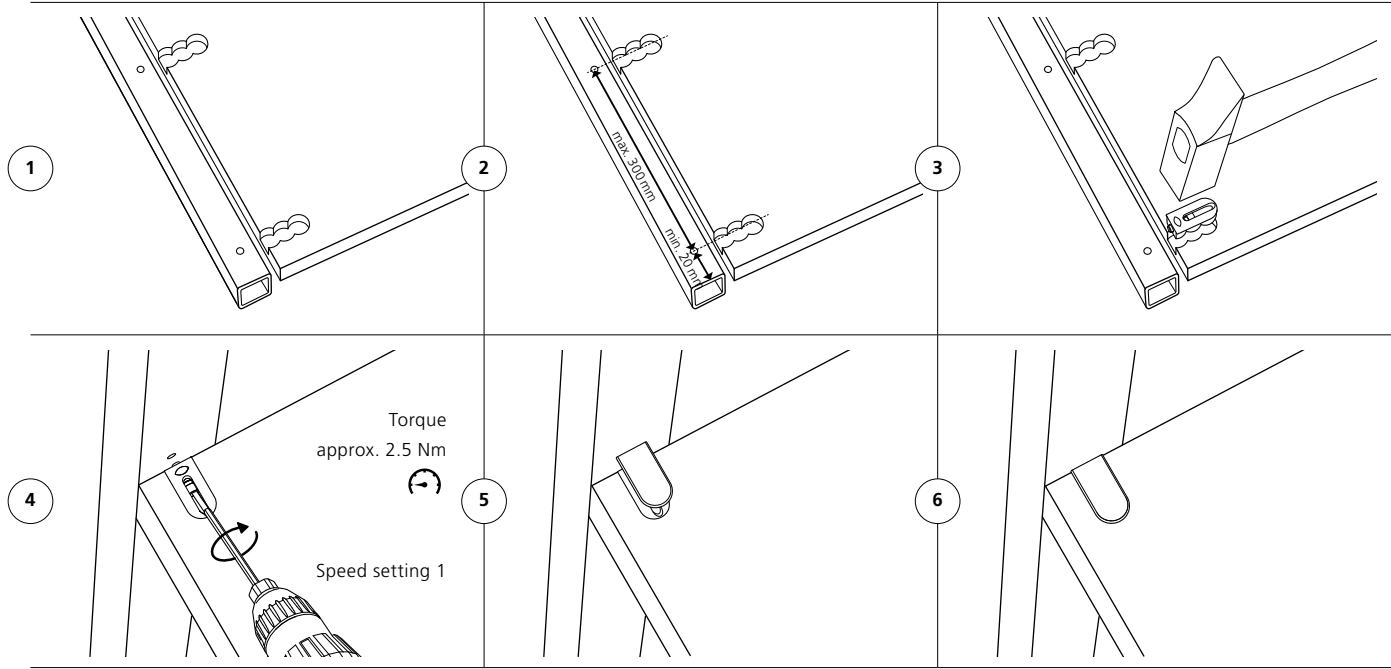
	Art. No.
Cabineo 8 M6, 500 pieces	<b>186315</b>
Cabineo 8 M6, 500 pieces	<b>186316</b>
Cabineo 8 M6 black, 500 pieces	<b>186345</b>
Cabineo 8 M6 black, 2000 pieces	<b>186346</b>

	<b>186306</b>
Scope of delivery: 80 x Cabineo 8 M6, 40 x Cabineo insert 12.3 mm, 40 x Cabineo insert 15.3 mm, 40 x cover caps, RAL 9003 signal white, Cabineo hexagonal bit, Cabineo insertion tool	

Matching accessories starting on **PAGE 170**

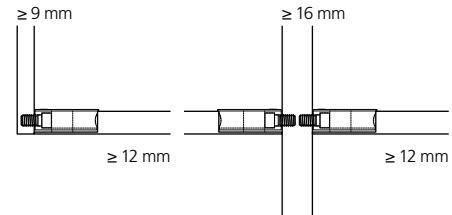


## Installation



## Technical data

Joining methods



Size	33.8 × 16.5 × 10.8 mm	
Screw length	8 mm	
Cutter	Ø 12 mm or smaller	
Drill	Ø 15 mm	
Screw thread	M6	
Material housing	Fiberglass reinforced plastic	
Installation tolerance	Long. ± 0.1 mm	
Strength per connector without dowel (N)		
In HPL 12 mm Up to	Tensile strength (N)	Shear strength (N)
	2370 <sup>1</sup>	1350 <sup>1</sup>
	10 N ~ 1 kg	
Material range	Particle board, MDF, plywood, softwood, hardwood etc.	

See **PAGE 148 – 149** for technical specifications | <sup>1</sup> See comment on load limits on **PAGE 185**

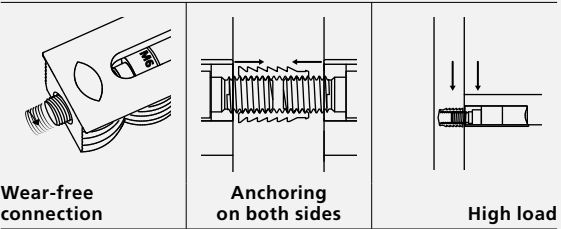


# Cabineo insert M6

For repeated assembly and disassembly without loss of strength





## Features



- Threaded socket in two sizes for Cabineo M6 screws
- Screwing in from both sides for center wall connections increases strength
- Efficient installation by hammering in
- High tensile strength in the wood due to the clawed retaining grooves
- Ideal for exhibition stand construction or the multiple assembly of furniture without wear and tear

The Cabineo insert M6 is a threaded insert to drive in, which can be used in combination with the Cabineo 8 M6. It is ideal for applications where the thread cannot be cut directly into the workpiece or to increase the strength in corner and dividing panel joints. The Cabineo insert M6 is hammered into the through-hole of the middle panel so that the Cabineo can reach into the insert from both sides. The same connector and insert can be used everywhere for corner and dividing panels.

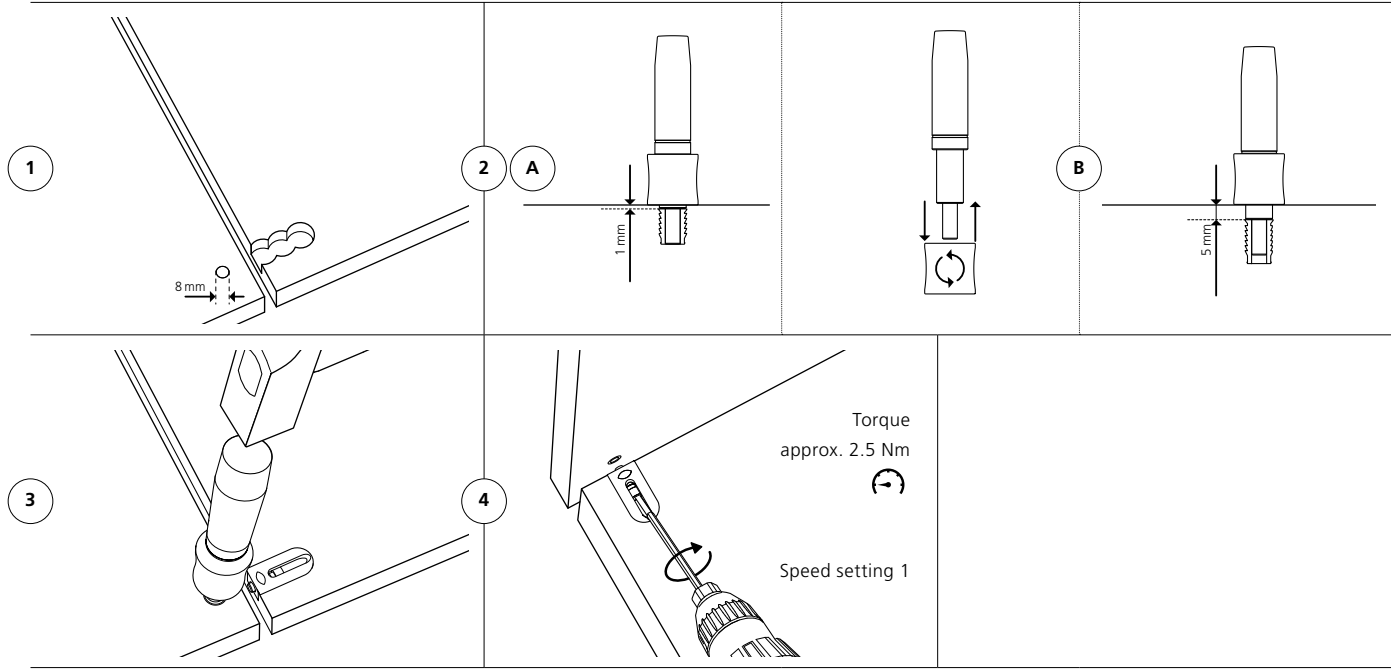
## Articles

	Art. No.
Cabineo insert M6 x 12.3 mm, 100 pieces, incl. Cabineo insertion tool	<b>186370</b>
Cabineo insert M6 x 12.3 mm, 500 pieces, incl. Cabineo insertion tool	<b>186371</b>
	
Cabineo insert M6 x 15.3 mm, 100 pieces, incl. Cabineo insertion tool	<b>186375</b>
Cabineo insert M6 x 15.3 mm, 500 pieces, incl. Cabineo insertion tool	<b>186376</b>

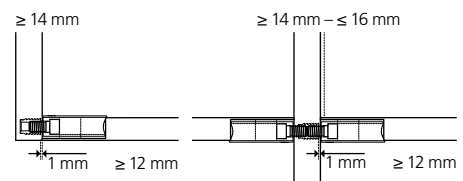
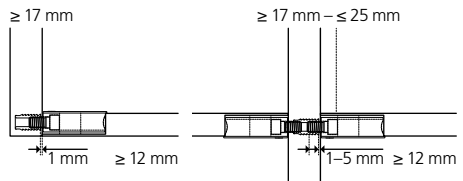
	
Cabineo installation tool for insert M6	<b>276310</b>

Matching accessories starting on **PAGE 170**

## Installation



## Technical data

<b>Joining methods</b>		Size		Ø 9.3 x 12.3/15.3 mm	
		Thread		M6	
		Drill hole		Ø 8 mm	
		Material		Brass	
		Installation tolerace		Long. ± 0.1 mm	
		Strength per connector without dowel (N)			
		Particle board 19 mm Up to		Tensile strength (N)	Shear strength (N)
		Insert M6 x 12.3		810 <sup>1</sup>	1210 <sup>1</sup>
		Insert M6 x 15.3		940 <sup>1</sup>	1240 <sup>1</sup>
				10 N ~ 1 kg	
		Material range		Particle board, MDF, plywood, softwood, hardwood etc.	

See **PAGE 149** for technical specifications | <sup>1</sup> See comment on load limits on **PAGE 185**

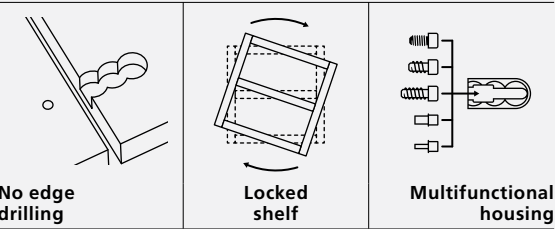


# Cabineo X

Cabinet connector and shelf support without edge drilling



## Features




- Time-saving carcass connector with open housing
- Can be used with Cabineo X screws or shelf supports
- Flexible and simple positioning of the cabinet cover and shelves
- For every CNC machine thanks to simple machining on the surface
- Ideal for shelves, built-in cupboards, access panels and adjustable shelves

Cabineo X is a connector for cabinets and shelves, that can be used with all CNC machines and is pressed into place in the workshop or on site. Due to the open housing, it is possible to insert a Cabineo screw from the top and screw it into the counterpart with a hexagon bit. Using it with screws, Cabineo X is ideal when installing shelves into already joined cabinets or when assembling corner joints. Combined with shelf supports, Cabineo X prevents shelves from being pulled out.

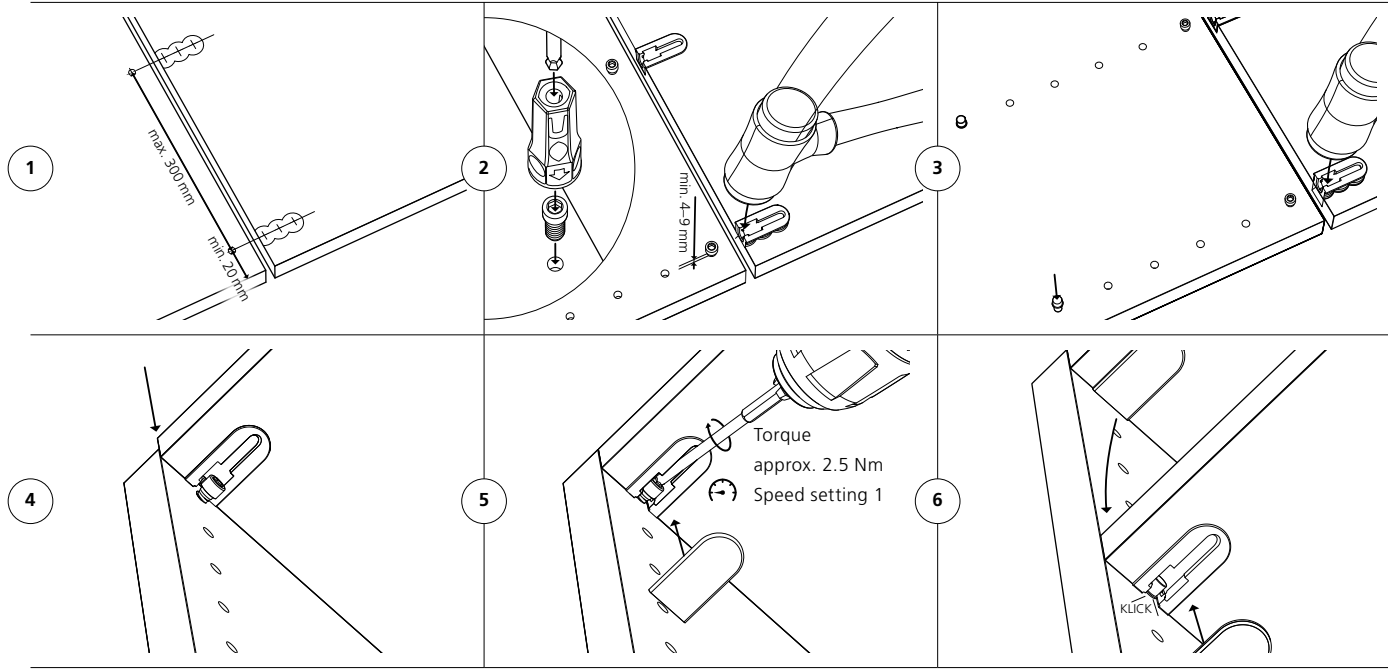
## Articles

	Art. No.
Cabineo X, 500 pieces	<b>186360</b>
Cabineo X, 2000 pieces	<b>186361</b>
Cabineo X black, 500 pieces	<b>186365</b>
Cabineo X black, 2000 pieces	<b>186366</b>
	
Cabineo 12 screw, 500 pieces	<b>186380</b>
Cabineo 12 screw, 2000 pieces	<b>186381</b>
Cabineo 8 screw, 500 pieces	<b>186382</b>
Cabineo 8 M6 screw, 500 pieces	<b>186384</b>

	
Cabineo X shelf support Ø 5, 500 pieces	<b>186386</b>
Cabineo X shelf support Ø 3, 500 pieces	<b>186388</b>

	
Cabineo X Starter Set	<b>186307</b>
Scope of delivery: 80 pieces Cabineo X, 40 pieces Cabineo 12 screw, 20 pieces Cabineo 8 screw, 20 pieces Cabineo 8 M6 screw, 20 pieces Cabineo X shelf support Ø 5, 20 pieces Cabineo X shelf support Ø 3, 40 pieces Cabineo cover caps signal white, 1 piece Cabineo X screw-in aid, 1 piece Cabineo hexagonal bit 1/4" GL 80 mm	

## Installation



## Technical data

Joining methods

Cabineo 8 screw

Cabineo 12 screw

Size	33.8 × 16.5 × 10.8 mm	
Screw length	8 mm or 12 mm	
Shelf support	Ø 3 mm or Ø 5 mm	
Cutter	Ø 12 mm or smaller	
Drill	Ø 5 mm and Ø 15 mm	
Material housing	Fiberglass reinforced plastic	
Installation tolerance	Long. ± 0.5 mm	
Strength per connector without dowel (N)		
Particle board 19 mm	Tensile strength (N)	Shear strength (N)
Up to		
Cabineo 8 screw	480 <sup>1</sup>	530 <sup>1</sup>
Cabineo 12 screw	770 <sup>1</sup>	850 <sup>1</sup>
Material range	Particle board, MDF, plywood, softwood, hardwood etc.	

See PAGE 148–149 for technical specifications | <sup>1</sup> See comment on load limits on PAGE 185



# Advantages of Cabineo

Simple, fast and strong

# Cabineo compared with cam and dowel

<div>1.</div> <div>Advantages in production</div> <div>Time-saving in production</div> <div></div>	<ul style="list-style-type: none"><li>– Optimised process due to surface machining; no edge drilling necessary</li><li>– Only one tool change from 5 mm to 15 mm drill; no tool change for the dowel hole drill necessary</li><li>– No dowel holes means less drill holes per connector</li><li>– Shallow element of 10 mm allows for panels from 12 mm thickness</li></ul>	<div>Manufacturing process with Cabineo</div> <div><div></div><div></div><div>4 surface processing steps 1 tool change</div></div> <div><div></div><div>Fit Cabineo into top or bottom shelf</div></div>	<div>Manufacturing process with cam</div> <div><div></div><div></div><div>3 surface processing steps 2 tool changes</div></div> <div><div></div><div>2 edge drill holes 1 tool change</div></div>
<div>2.</div> <div>Advantages in transportation</div> <div>Time-saving in transportation</div> <div></div>	<ul style="list-style-type: none"><li>– Efficient pre-installation of the one-piece connector in the factory</li><li>– Flat pack delivery with pre-installed connectors</li><li>– No extra bags or loose hardware required with furniture shipment</li><li>– Detachable for transport or if the fixed shelves need adjusting</li></ul>	<div><div></div><div></div><div>Flat pack the workpieces</div></div>	<div><div></div><div></div><div>Prepare fitting bag</div></div> <div><div></div><div>Flat pack the workpieces</div></div>
<div>3.</div> <div>Advantages in assembly</div> <div>Time-saving in the assembly</div> <div></div>	<ul style="list-style-type: none"><li>– One-piece connector without dowels; no pre-assembly of screws or dowels in the side panels necessary</li><li>– Easy positioning of the Cabineo in the corresponding hole due to the protruding screw</li><li>– Fast assembly with a cordless drill</li><li>– Installation of fixed shelves or vertical dividers in an already assembled unit</li></ul>	<div><div></div><div></div><div>Assemble using a cordless drill</div></div>	<div><div></div><div></div><div>Insert cam into shelf</div></div> <div><div></div><div>Install the screw in the side Insert dowel into the side</div></div> <div><div></div><div>Assemble using a screwdriver</div></div>



# Examples of manufacturing and assembly processes

Cabineo



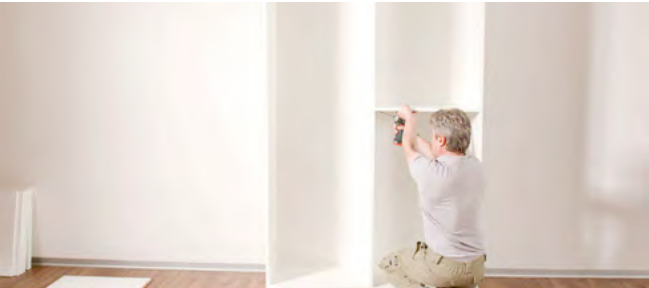
Flatpack workpiece delivery with pre-assembled connector.



Join furniture elements with cordless drill and Cabineo tool. Easy, fast working with preset torque approx. 2.5 Nm.



Screw front corner in place with a cordless drill. This makes one-man assembly easy.



- Tip:
- Place one side of the shelf on the shelf support and fasten the other side
  - Retract the screw to facilitate installation.



Place furniture side on base. The element is correctly positioned by the protruding screw.



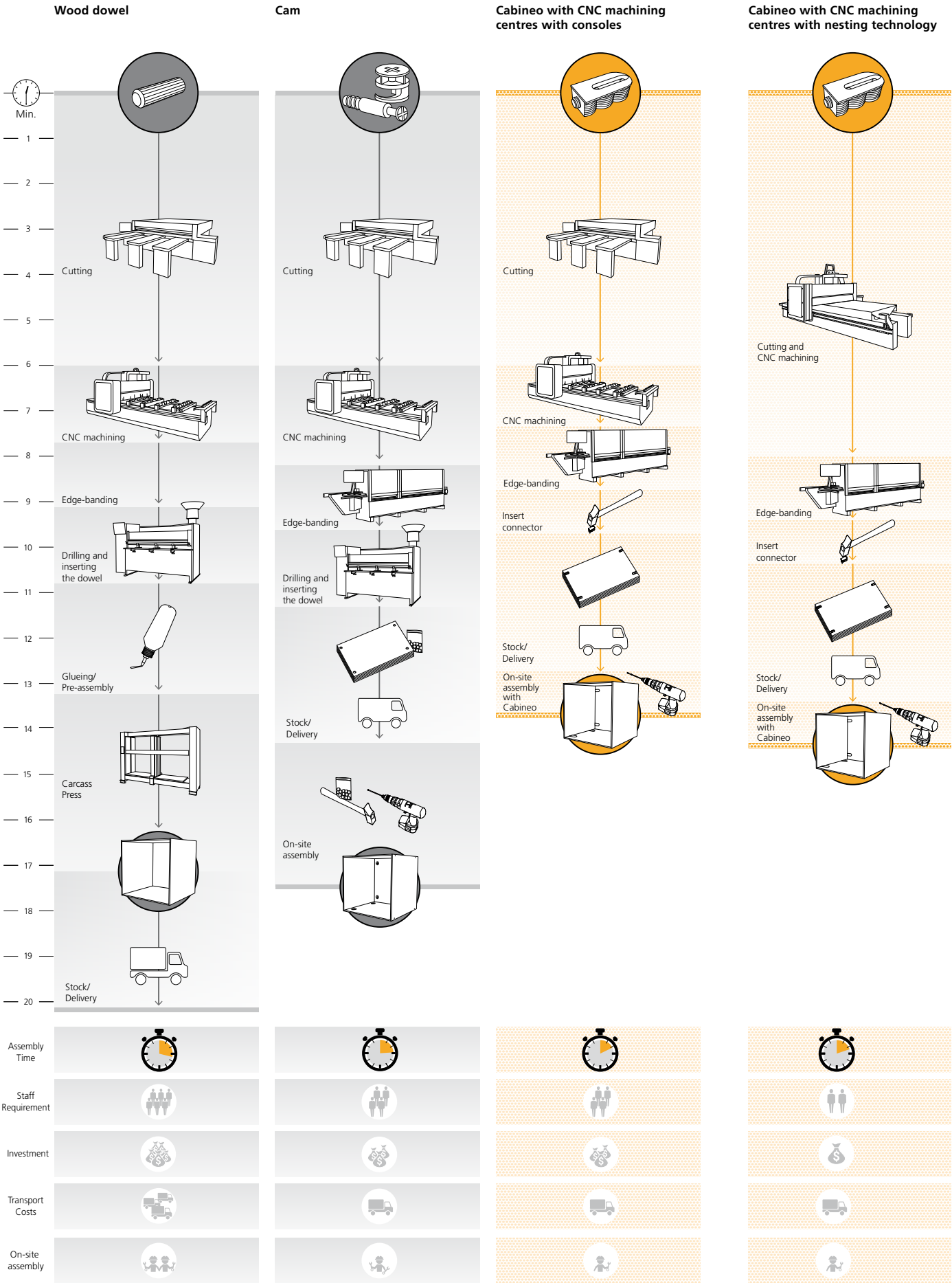
Position top and push towards the furniture side.



After assembly, fasten the fixed intermediate shelves in the required positions.



If required, use cover caps on the Cabineo.

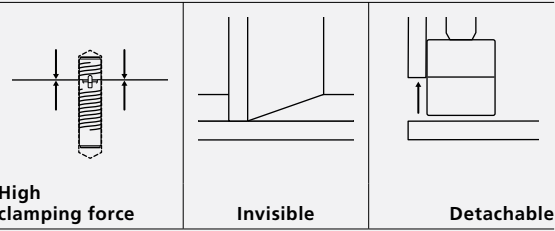




# Invis Mx2

Magnet-driven connecting fittings

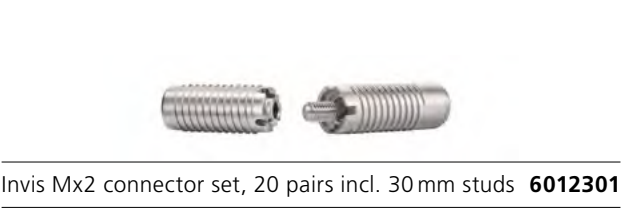
## Features



- Magnetically driven, detachable furniture connector
- Enormously high clamping force of up to 250 kg per connector
- Invisible connection for maximum aesthetics
- Wear-free detachable with MiniMag Mx2 and cordless screwdriver
- Ideal for high-quality furniture, lacquered or molded workpieces, tables, stairs

Invis Mx2 is a unique, magnet-driven connection for the highest demands on aesthetics, stability and productivity. With no visible openings, Invis Mx2 is connected and disconnected quickly again and again, using its magnetic drive. Invis Mx2 connectors are screwed into the 12 mm drill holes in the panel. Using the MiniMag with a cordless drill, the connection closes and creates a clamping force of up to 250 kg per connector. Ideal for high gloss painted furniture, molded workpieces, stairs, etc.

## Articles

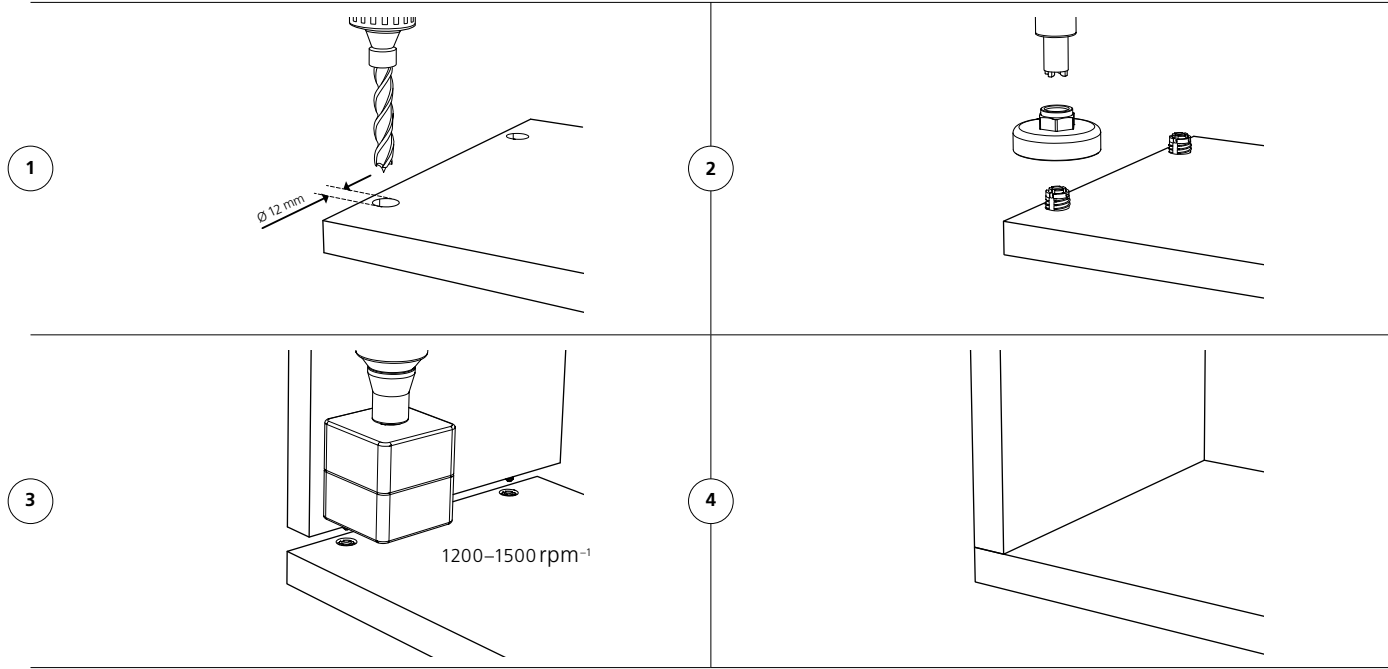


Invis Mx2 Starter Set, in systainer **6100302**  
Kit contains: 20 x Invis Mx2 with stud 14 mm, Invis Mx2 screw bit, Invis Mx2 insertion jig, MiniMag Mx2 inkl. flexible shaft, Rasto perforated plate, positioning bolts, fastening screw, Rasto drill bushings Ø 12 mm drill Ø 12 mm, depth adjuster, spacer

Matching accessories starting on **PAGE 170**



## Installation



## Technical data

Joining methods	Size connector	Ø 12 x 35 mm		
	Size stud	Ø 12 mm x 30/14 mm		
	Size centre-wall stud	Ø 12 mm x 30 mm		
	Drill	Ø 12 mm		
	Speed MiniMag	Must be 1200–1500 rpm <sup>-1</sup>		
	Material housing	Zinc		
	Installation tolerace	Long. ± 0.1 mm		
	Clamping force per connector	250 kg <sup>1</sup>		
	Tensile strength (N)	Connector sets with stud	14 mm	30 mm
	Up to	MDF	1460 <sup>1</sup>	2260 <sup>1</sup>
Material range		Particle board	1220 <sup>1</sup>	1580 <sup>1</sup>
		Beech	3280 <sup>1</sup>	5130 <sup>1</sup>
		Particle board, MDF, plywood, softwood, hardwood etc.		



Articles



Invis Mx2 connector 35 mm, 20 pieces **Art. No. 6012317**



Invis Mx2 stud 14 mm, 20 pieces **6012312**



Invis Mx2 stud 30 mm, 20 pieces **6012309**

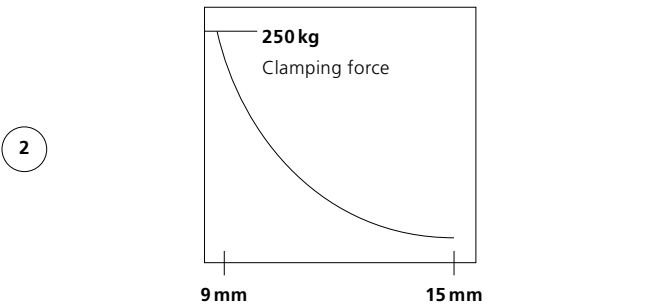
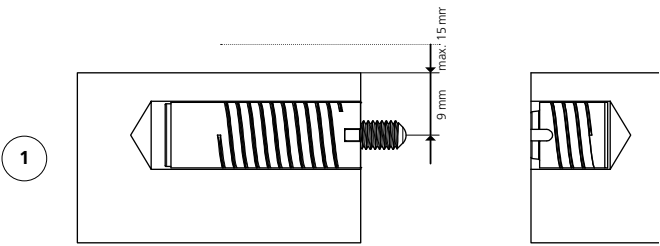


Invis Mx2 centre wall stud, 10 pieces **6012208**



Invis Mx2 MiniMag, incl. screw bit **6100301**

Function



Small distance from the edge for high clamping force



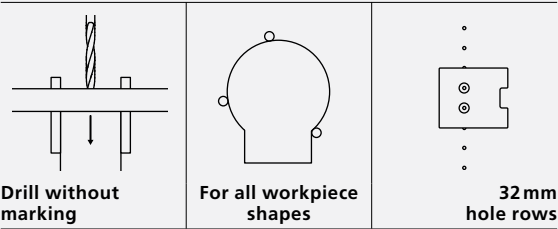


# Rasto drill jig

Universal drill jig without measuring or marking



## Features



- Precise drilling jig for timber joints with Invis Mx2 connecting fittings
- Transfer drilling position from workpiece to workpiece instead of marking it
- With three positioning pins for clamping on almost all workpiece shapes
- Drill bushes with different diameters for many applications
- Ideal for Invis Mx2 connectors, furniture handles, pot hinge cross plates, 32 mm rows of holes

Rasto is a universal drilling jig and is used for creating precise drilled holes for Invis Mx2. The drilling jig can be clamped onto almost any workpiece shape by means of three positioning pins without measuring or marking. After the first workpiece has been drilled, the position is transferred unchanged to the second workpiece. Working in this way means the holes will always line up with each other. Rasto is also suitable for 8 mm dowel holes or 5 mm holes for handles or for row hole drilling.

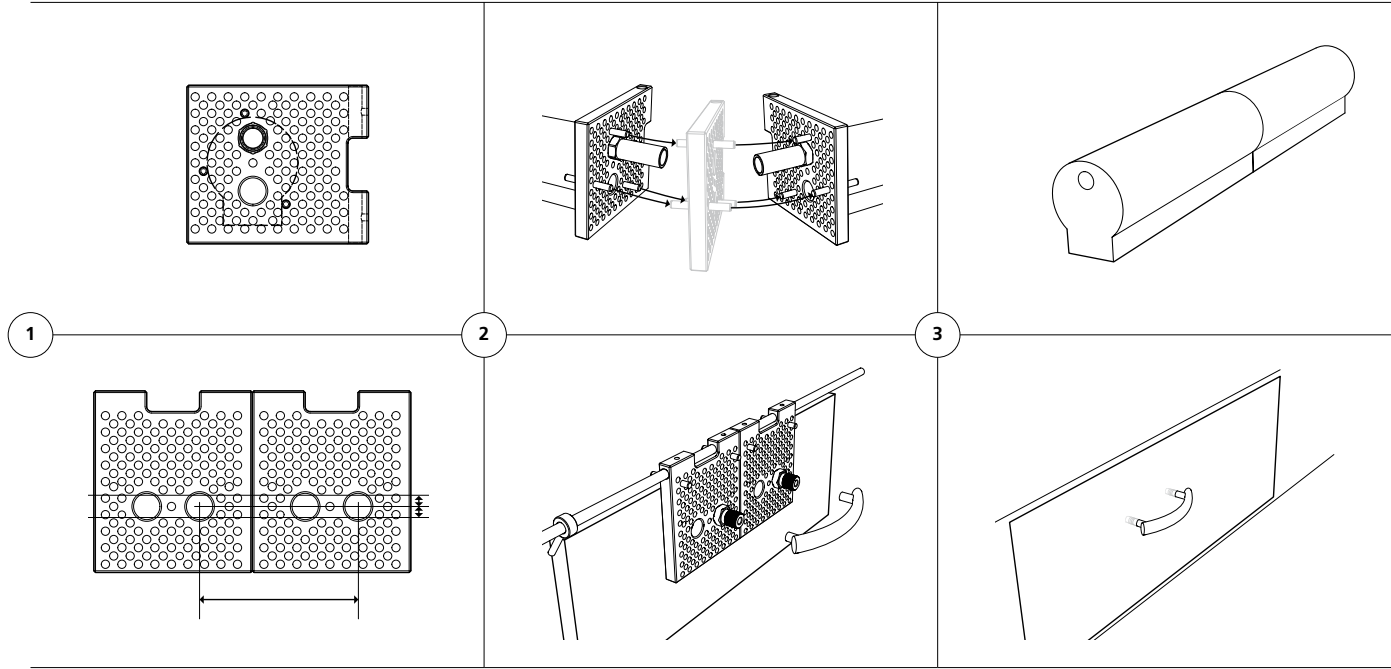
## Articles

	Art. No.
Rasto Duo Set, in systainer incl. accessories Kit contains: 2 x Rasto perforated plate, 8 x Rasto drill bushes Ø 5, Ø 8, Ø 10, Ø 12 mm, 3 x drills Ø 5, Ø 8, Ø 12 mm, with depth adjuster, 6 x Rasto positioning pins, 2 x Rasto fastening screw, Rasto connection rod 500 mm two-part, Invis Mx2 insertion bush, Invis Mx2 spacer Ø 12 mm	126007
Rasto Basic Set, in carton incl. accessories Scope of delivery: Rasto perforated plate, positioning pins, screw, 4 x Rasto drill bushes Ø 5, Ø 8, Ø 10, Ø 12 mm	126005
Rasto Mono Set, in systainer incl. accessories Kit contains: Rasto perforated plate, 4 x Rasto drill bushes Ø 5, Ø 8, Ø 10, Ø 12 mm, 3 x wood drill bits Ø 5, Ø 8, Ø 12 mm, with depth adjuster, 3 x Rasto positioning pins, 2 x Rasto fastening screw, Invis Mx2 insertion bush, Invis Mx2 spacer Ø 12 mm	126006

Matching accessories starting on PAGE 170



## Installation



## Technical data

Rasto perforated plate	Size Rasto plate	110 x 96 x 12 mm
	Material Rasto plate	Polycarbonate



## Machining Cabineo

## Machining options

Drill 15 mm

Cutter Ø 10 mm

Cutter Ø 12 mm

Flush with the surface

Flush cover cap

HPL on the surface

**Cabineo 8: X = 8 mm, black screw**  
**Cabineo 12: X = 12 mm, nickel-plated screw**  
**Cabineo 8 M6\*: X = 8 mm, yellow galvanised screw**  
 \* Metric ISO thread DIN 13-1  
**Cabineo X shelf support Ø 5: X = 8 mm / Y = 5 mm**  
**Cabineo X shelf support Ø 3: X = 8 mm / Y = 3 mm**

**Cabineo 8: X = 8 mm, black screw**  
**Cabineo 12: X = 12 mm, nickel-plated screw**  
**Cabineo 8 M6\*: X = 8 mm, yellow galvanised screw**  
 \* Metric ISO thread DIN 9-1  
**Cabineo X shelf support Ø 5: X = 8 mm / Y = 5 mm**  
**Cabineo X shelf support Ø 3: X = 8 mm / Y = 3 mm**

**Cabineo 8:** X = 8 mm, black screw  
**Cabineo 12:** X = 12 mm, nickel-plated screw  
**Cabineo 8 M6:** X = 8 mm, yellow galvanised screw  
 \* Metric ISO thread DIN 13-1  
**Cabineo X shelf support Ø 5:** X = 8 mm / Y = 5 mm  
**Cabineo X shelf support Ø 3:** X = 8 mm / Y = 3 mm

**Cabineo 8 M6\*: X = 8 mm**, yellow galvanised screw  
\* Metric ISO thread DIN 13-1

Ø 15 mm (3x)

Ø 15 mm (3x)

Ø 15 mm (3x)

Ø 15.2 mm (3x)

Ø 15 mm (3x)

Ø 15 mm (3x)

Ø 15 mm (3x)

Ø 15.2 mm (3x)

Ø 15 mm (3x)

Ø 15 mm (3x)

13.5

\* Metric ISO thread DIN 13-1

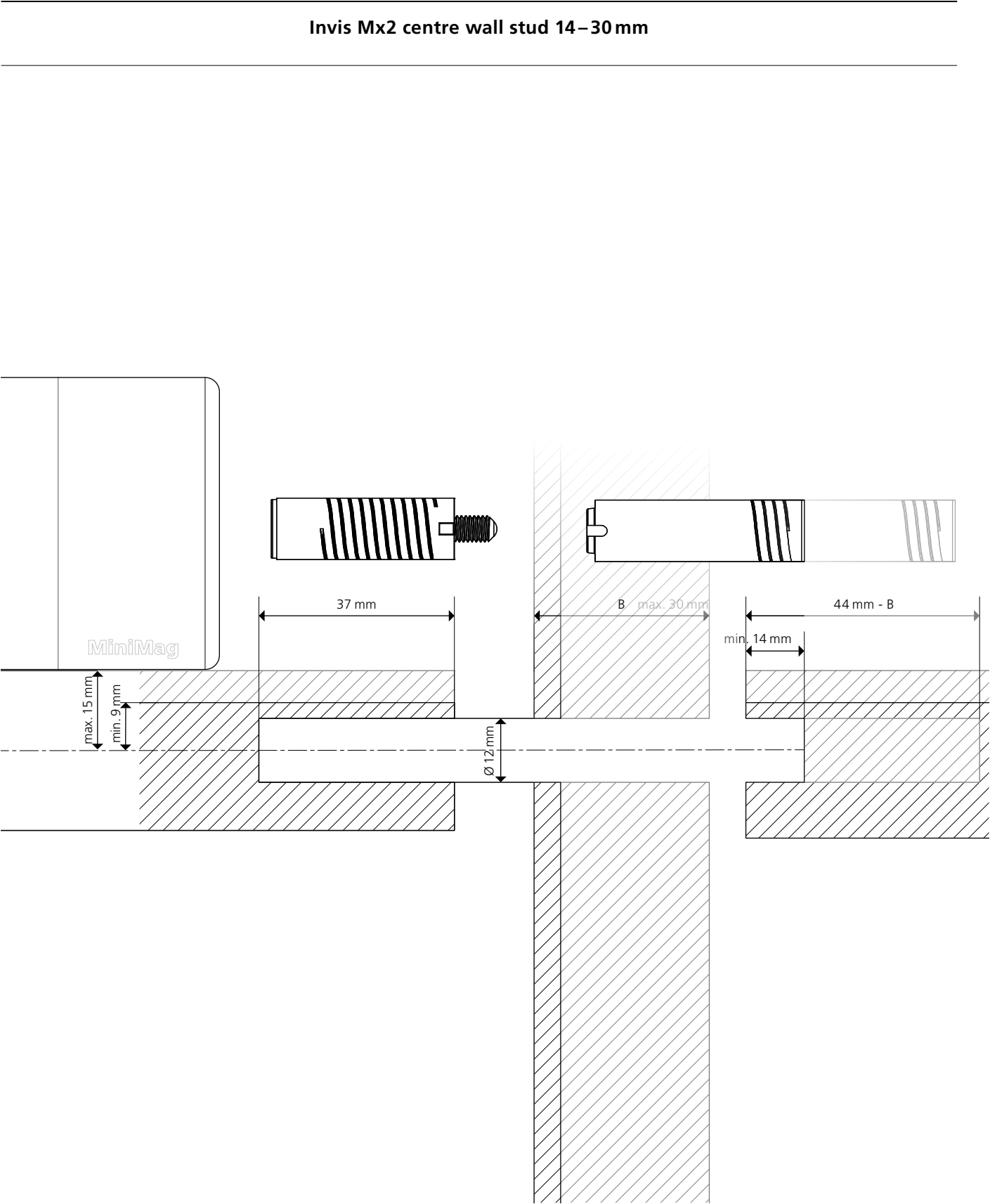
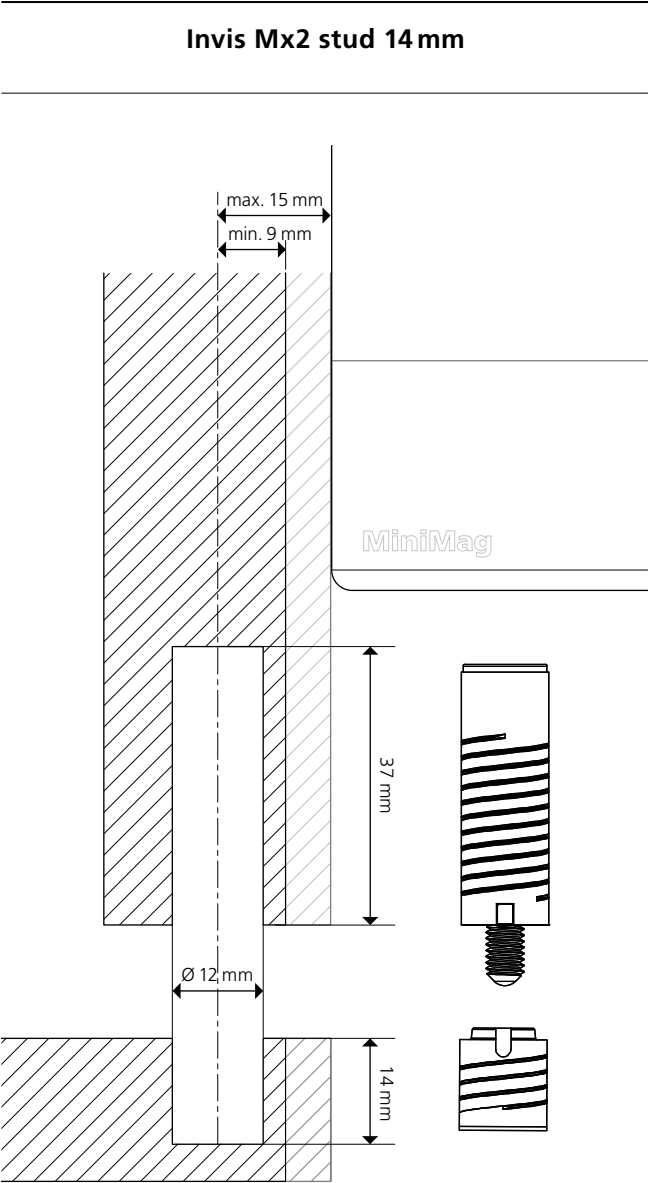
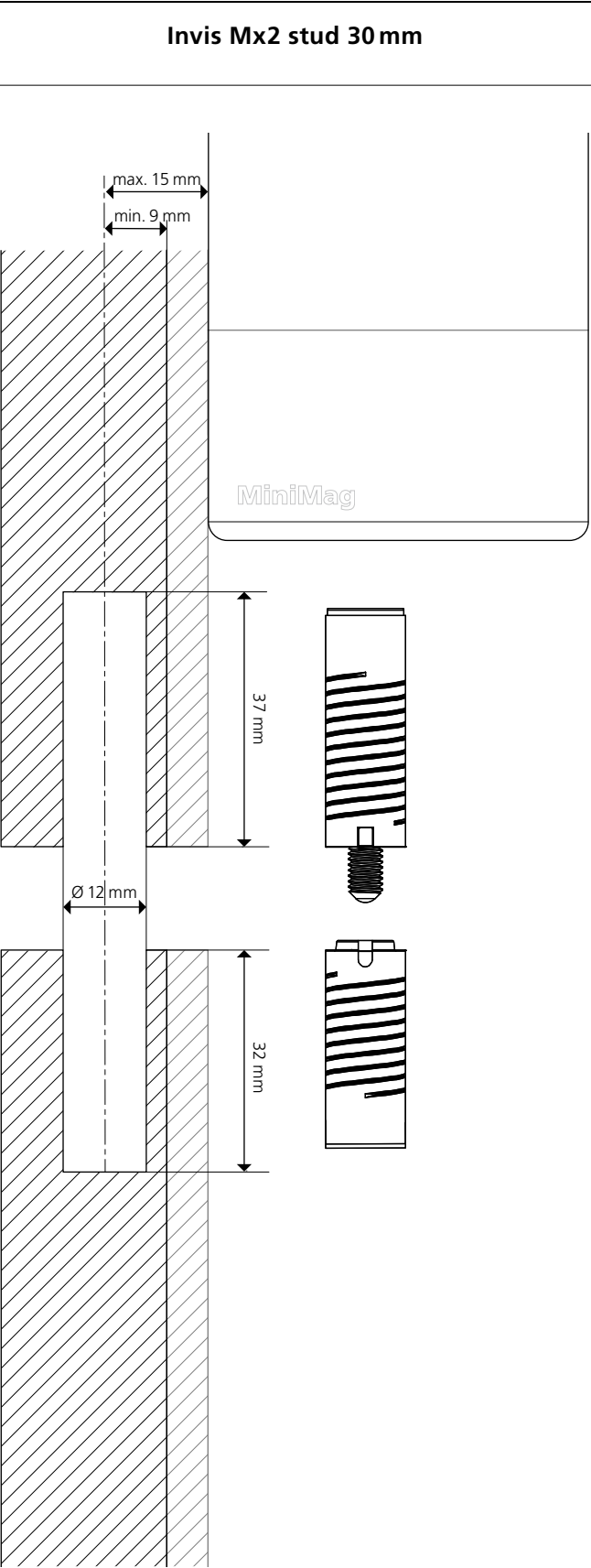
148

149



Technical information

Machining Invis Mx2





# Strong partnerships

For efficient production with CNC technology

## CAD/ERP/CAM software



## CNC machines/Aggregates/CNC tools




SEE OUR  
PARTNER  
NETWORK!



## Networked production

- Extensive network of planning and processing partners
- Efficient integration of Lamello products into production
- Continuous productivity in planning, processing and installation



A man with short brown hair, wearing a grey zip-up jacket over a light-colored t-shirt, is smiling and holding a large, white, rectangular board. The board has a grid of small, evenly spaced holes. He is standing in a workshop or factory setting, with various pieces of wood and machinery visible in the background. The board he is holding is part of a larger assembly, with other similar boards visible in the foreground and background.

*« If you want to modernise as a  
carpentry company, there is no way  
around the Cabineo in my view. »*

Wolfgang Füreder, Managing Director of Holzvision Füreder, Austria



# P-System with CNC

Joining methods and requirements for  
CNC machines/machining options



CNC machines		With consoles/ vertical or horizontal				With nesting technology								
Number of axes		3				4	5		3		5			
			Machining option	Machining option					Machining option		Machining option			
Joining methods	Machining													
	Access drill hole													
	Profile groove in the edge													
	Profile groove on the surface (close to the edge)													
	Profile groove on the surface (centre of the surface)*													
	Access drill hole 45°													
	Profile groove in the edge 45°													
	Access drill hole 22 – 108°													
	Profile groove in the edge 22 – 108°													

\* The Divario P-18 can also be used as an alternative connecting element in the middle of the surface. (2 x 8 mm holes without profile groove)  
¹ Without a C-axis, the angle unit cannot be rotated by 90°/180°. Alternatively, the workpiece could be rotated and work in two steps.

The information concerns technical options regarding how the applications could be implemented.  
These must be adapted to your company facilities and coordinated with the planning and machining partners.





Detailed information on machining		Detailed information on machining		Possible setup of aggregates and tools		Comments
					<b>Integrated CNC Z-axis</b> with drill (5/6 mm) or with <b>collet chuck</b> for clamping Ø 10 mm and drill 131556	P-System CNC drill bit on <b>PAGE 166</b>
					<b>Saw blade clamp</b> Ø 40/DTK 52 mm and cutter 132143 or with <b>collet chuck</b> and cutter arbor	You can find dimensions for cutters and clamping Ø and lengths of cutter arbors on <b>PAGE 166/167</b>
					<b>Angle aggregate</b> – One to four spindle angle aggregates – Floating trimming unit for P-System – Corner notching aggregate – Aggregate for door locks	A unit overview can be found on the Lamello website: <a href="http://www.lamello.com">www.lamello.com</a> under planning and machining partners
					<b>Manually adjustable swivelling aggregates</b> <b>Information:</b> Several tool changes required for angle cuts, drilling and P-System grooves	<b>Note:</b> The cutting depth in the centre of the surface may be restricted depending on the model. <b>Tip:</b> For a mitre, the drill hole could be made with the manual drill
					<b>Automatically adjustable swivelling aggregates with automatic tool changer</b> (FLEX5+C/5-MOTION PLUS/Flex5+C, from year of manufacture 2015) – Tool holder WFC 40-25 clamping Ø 10 mm for drill – Drill shank Ø 10 mm, tool protrusion max. 50 mm – Tool holder WFC 40-25 with flange and cutter 132143	<b>Note:</b> In the centre of the surface, the profile groove depth is limited to 10 mm
					<b>Shrink chuck</b> for clamping Ø 12 x 40 mm and shank tool 131342 or <b>collet chuck</b> for clamping Ø 12 x 40 mm and shank tool 131342	P-System CNC shank tool cutter on <b>PAGE 167</b> .

\* More information on **PAGES 166 – 167**

The information concerns technical options regarding how the applications could be implemented. These must be adapted to your company facilities and coordinated with the planning and machining partners.

Possible combination of CNC machines with Zeta P2

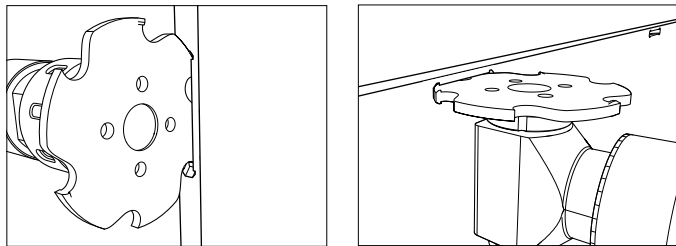
More regarding the machining on **PAGE 163**

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# P-System equipment options

For CNC machines for particularly efficient machining



Vertical and horizontal CNC machining centres  
«CNC compact class»



**EVOLUTION 7405  
Connect**

1 · 2 · 3



**BIESSE**

**Brema Eko 2.1**  
1x aggregate  
2x P-System CNC  
groove cutters  
1x P-System CNC cutter arbor  
1x drill Ø 6 mm

1 · 2 · 3



**BIESSE**

**Brema Eko 2.2**  
1x aggregate for 90°  
1x aggregate 45° for 2x 45°  
2x P-System CNC  
groove cutters  
1x P-System CNC cutter arbor  
1x drill Ø 6 mm

1 · 2 · 3 · 4



**Project TF 100/TF 100 2.0**  
1x aggregate  
2x P-System CNC  
groove cutters  
1x P-System CNC cutter arbor  
1x drill Ø 6 mm

1 · 2 · 3



**morbidelli**

**cx 220**  
1x aggregate  
2x P-System CNC  
groove cutters  
1x P-System CNC cutter arbor  
1x drill Ø 6 mm

1 · 2 · 3



**DYNESTIC 7535**  
1x P-System tool set

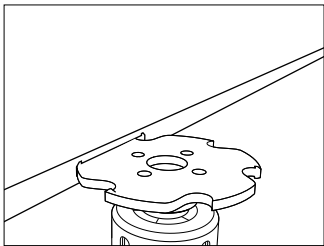
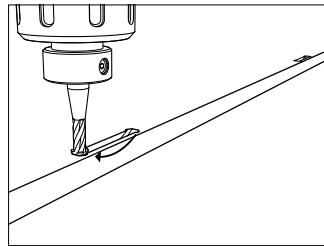
1 · 2 · 3 · 4



**Vitap**  
Create Smarter

**Vitap K2 2.0**  
1x aggregate  
2x P-System CNC  
groove cutters  
1x P-System CNC cutter arbor  
1x drill Ø 6 mm

1 · 2 · 3



**FORMAT**

**Creator 950**  
1x P-System CNC  
groove cutter in HSK63F  
1x P-System CNC shank tool  
cutter\* in HSK63F  
1x drill Ø 6 mm

\*optional for P-System CNC  
shank tool cutter:  
1x aggregate for 90°  
1x P-System CNC groove cutter

1 · 2 · 3



**GANNOMat**

**ProTec + P-System  
add-on package**  
Editor with  
Lamello P-System macro  
1x P-System CNC  
groove cutter in HSK63F  
1x P-System CNC cutter arbor  
1x P-System CNC shank tool  
cutter  
1x drill Ø 6 mm

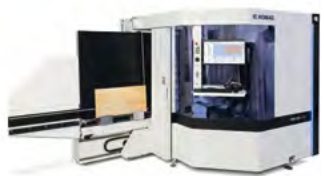
1 · 2 · 3



**HOMAG**

**DRILLTEQ V-200**  
woodWOP «Lamello P-System»  
component  
1x P-System tool set

1 · 2 · 3



**HOMAG**

**DRILLTEQ V-310**  
for 180° + 90° joints:  
woodWOP component  
«Lamello P-System»  
1x P-System tool set

additionally for  
45° joints:  
2x aggregate 45°  
1x tool set for 45°

1 · 2 · 3 · 4



**HOMAG**

**DRILLTEQ D-510**  
woodWOP «Lamello P-System»  
component  
1x P-System tool set

1 · 2



**morbidelli**

**cx 110**  
1x aggregate  
2x P-System CNC  
groove cutters  
1x P-System CNC cutter arbor  
1x drill Ø 6 mm

1 · 2 · 3

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comprehensive product information!



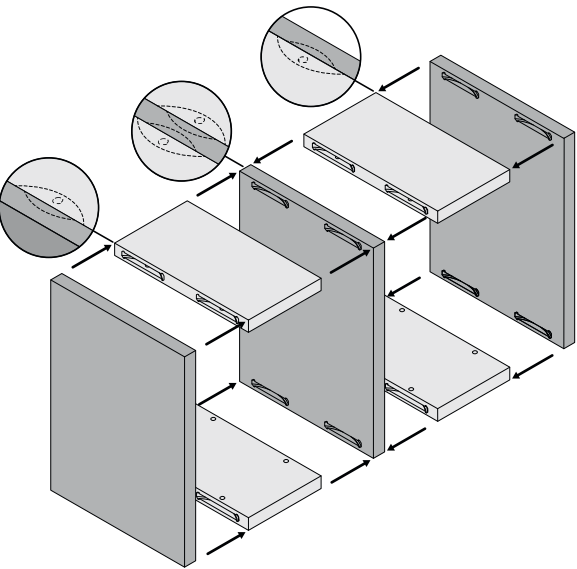
Connectivity

Surface 180°	Corner 90°	Centre wall 90°	Mitre 2x 45°
1	2	3	4



# Ideas for standardising

The machining on a CNC machine



Clamex P-14 CNC with lever, Clamex P-14 with lever and Clamex P-14/10 Flexus with lever are compatible with all Clamex P elements without lever.  
This allows for a standardised construction method.

**Depth 14 mm** for all P-System grooves  
**in the panel edge** (with the access hole)



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



Clamex P-14 element with lever, 2000 pieces **14538**



Clamex P-14 Flexus element with lever, 2000 pieces **145318**

**Depth 10 mm** for all P-System grooves  
**in the surface**



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

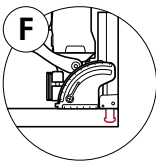


Clamex P-10 Medius element without lever, 2000 pieces **145369**

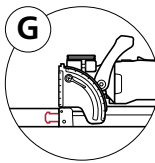
# Possible combination of CNC machines with Zeta P2

Precise drilling on a CNC machine; use these drill holes to position the Zeta P2 to cut the P-System grooves.  
This application is especially ideal if the CNC machine is a nesting machine and or no aggregate is available.  
This method combines the precision and efficiency of a CNC machine and uses the simple and fast machining of a P-System groove with a Zeta P2.

## Positioning drill holes for the Zeta P2



	Art. No.
Zeta P2 positioning pin CNC, Ø 5 mm, 2 pieces	<b>251048</b>
Zeta P2 positioning pin CNC, Ø 8 mm, 2 pieces	<b>251066</b>



	Art. No.
Zeta P2 positioning clip CNC, for drill hole Ø 6 mm	<b>251067</b>

## Machining steps

1. Drill the positioning holes with the CNC, Ø 5 mm/Ø 8 mm (axis spacing 101 mm)

101 mm

2. Remove the anti-slip devices on the Zeta P2

3. Insert the positioning pins in the Zeta P2

4. Position the machine in the drill holes

1. Drill the positioning hole with the CNC, Ø 6 mm

7.5 mm  
60 mm

2. Insert the positioning clip

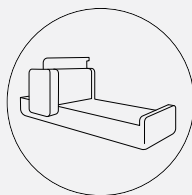
3. Insert the positioning clip in the drill hole Ø 6 mm

4. Cut the groove with the positioned machine



# Cabineo with CNC

Specific equipment options for CNC machines for Cabineo



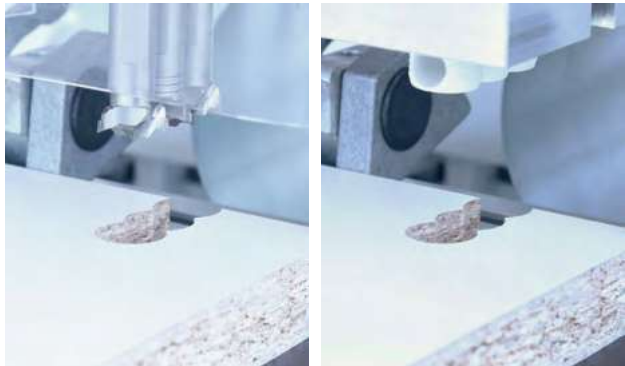
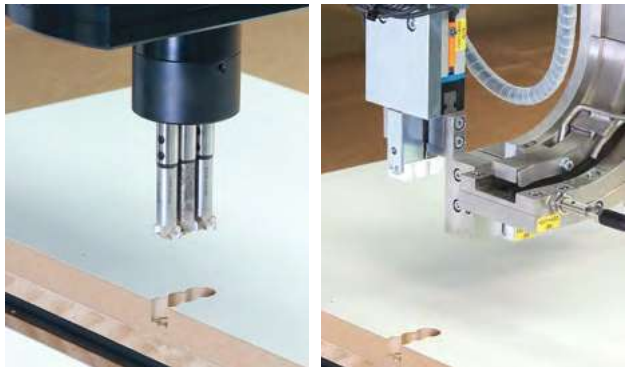
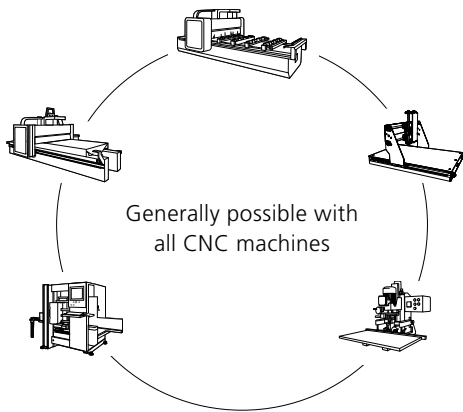
CNC machine

## Homag CENTATEQ N-600

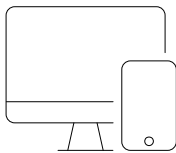
Homag has developed the unmanned installation of the Cabineo connector on its nesting CNC machine CENTATEQ N-600. First, the multi spindle aggregate from Benz creates the drill shape, consisting of 3 drill holes, in one plunge. Once the panels are cut to size, the machine will commence with the fully automated insertion of the Cabineo into the board.

## Gannomat Basica Variabel 0194

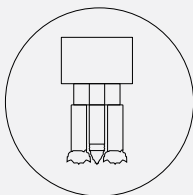
First, the 3 spindle aggregate drills the 15 mm drill holes in one plunge. Following this, the Cabineo is held by an insertion aggregate and is pressed into the board. The 5 mm holes for the Cabineo screw are drilled either with the boss hinge aggregate or the 11 spindle shelf pin aggregate.



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Experience CNC live and receive comprehensive product information!



CNC tools - aggregate

Benz was the first company to develop a triple multi-spindle head in order to drill the Cabineo with a single stroke. This reduces the machining time to approx. 1–2 seconds.

Supplier of triple drilling unit for Cabineo:

## Benz MULTI V3 CABINEO

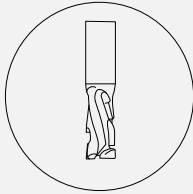
Vertical multi-spindle head (direction of rotation of the drills 1 piece left hand rotation, 2 pieces right hand rotation)

## Atemag VERTINEO FUNCTION LINE

Drilling unit for Cabineo connector All-In-One. (Direction of rotation of the drills 2 pieces left hand rotation, 1 piece right hand rotation)

## Grotefeld DPL-03-03-CABINEO

Multi-spindle drilling unit DPL (Direction of rotation of the drills, both options possible: 1 drill left hand rotation, 2 drills right hand rotation or 2 drills left hand rotation, 1 drill right hand rotation)



CNC tools

Leuco was the first company to develop the interlocking drills for the triple multi-spindle units.

## Leuco drills for triple drilling units\*

Solid carbide (VHW), special LEUCO cutting edge and pre-cutter geometry for minimum cutting force and cutting pressure.

## Leitz drill bits for triple drilling units

Solid carbide, round pre-cutter geometry for very good drill edge quality, extremely wear-resistant carbide grade.

\* Cabineo drills for aggregate see **PAGE 168**


















# CNC tools

For the P-System



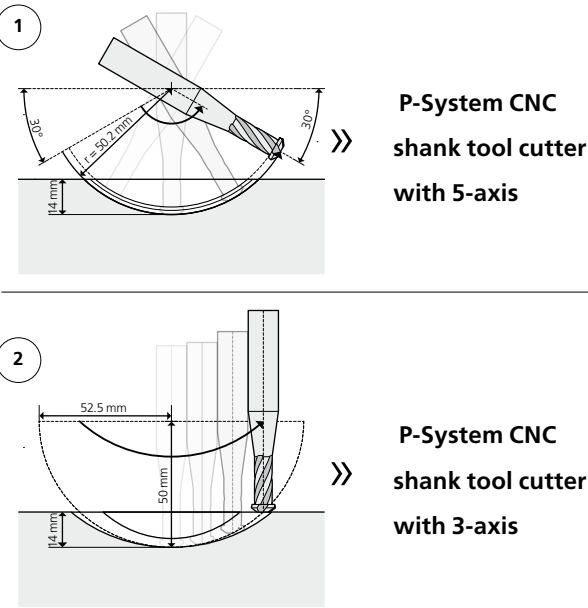
## P-System CNC tools

	Art. No.
Clamex CNC drill bit, HW (carbide), Ø 6 mm, shaft Ø 10 × 65 mm, L 100 mm	<b>131556</b>
	
P-System groove cutter CNC, DP (diamond), Ø 100.4 × 7 × Ø 30 mm, Z3, NL 4 × Ø 6.6 × Ø 48 mm	<b>132142</b>
P-System groove cutter CNC, DP, left hand, Ø 100.4 × 7 × Ø 30 mm, Z3, NL 4 × Ø 6.6 × Ø 48 mm, for Weeke BHX 200, Homag DRILLTEQ V-500, DRILLTEQ V-310, ...	<b>132149</b>
	
P-System groove cutter CNC, DP (diamond), Ø 100.4 × 7 × Ø 30 mm, Z6, NL 4 × Ø 6.6 × Ø 48 mm, for Lamello CNC milling arbor with 30 mm hub	<b>132145</b>
	
P-System groove cutter CNC, DP (diamond), Ø 100.4 × 7 × Ø 40 mm, Z3, NL 4 × Ø 5.5 × Ø 52 mm, e.g. Benz FLEX5+C, Benz 5-MOTION PLUS, ...	<b>132143</b>
	
P-System groove cutter CNC, DP (diamond), Ø 100.4 × 7 × Ø 16 mm, Z3, NL 4 × Ø 5.5 × Ø 28 mm, for corner notching unit, ...	<b>132144</b>
	
P-System groove cutter CNC, DP (diamond), Ø 100.4 × 7 × Ø 35 m, Z3, NL 4 × Ø 5.5 × Ø 50 mm, for Brema Eko 2.1, Masterwood project TF 100, Format4 D-Jet, Morbidelli cx110 / cx220, ...	<b>132148</b>
P-System groove cutter CNC, DP, rotation left, Ø 100.4 × 7 × Ø 35 mm, Z3, NL 4 × Ø 5.5 × Ø 50 mm, for Format4 Nesting profit H08, ...	<b>132180</b>

	Art. No.
Cutter arbor CNC for P-System groove cutter, Ø 30 mm, S Ø 20 × 50 mm, L 102 mm, NL 4 × M4 × Ø 48 mm	<b>132150</b>
	
Cutter arbor CNC for P-System groove cutter, Ø 30 mm, S Ø 20 × 50 mm, L 102 mm, NL 4 × M4 × Ø 48 mm	<b>132151</b>
	
Cutter arbor CNC for P-System groove cutter, Ø 30 mm, S Ø 16 × 50 mm, L 85 mm, NL 4 × M4 × Ø 48 mm	<b>132152</b>
	
Cutter arbor CNC for P-System groove cutter, Ø 30 mm, S Ø 16 × 55 mm, L 68 mm, NL 4 × M4 × Ø 48 mm	<b>132153</b>
	
Cutter arbor CNC P-System cutter, clamping surf. 2, Ø 30 mm, S Ø 16 × 50 mm, L 85 mm, NL 4 × M4 × Ø 48 mm, for lock case unit	<b>132154</b>
	
Cutter arbor CNC P-System cutter, clamping surf. 2, Ø 30 mm, S Ø 20 × 50 mm, L 85 mm, NL 4 × M4 × Ø 48 mm, for lock case unit	<b>132155</b>
Countersunk screw, Torx, 4 pieces, M6 × 16 mm, T20, for CNC cutter arbor	<b>132159</b>
Screwdriver with cross-grip, Torx T20 × 100 mm, green	<b>271919</b>
	
Cutter arbor CNC for 4 mm Lamello groove cutter, Ø 22 mm, shaft Ø 16 × 36 mm, L 80 mm, NL 4 × M4 × Ø 36 mm	<b>132156</b>

	Art. No.
P-System shaft tool cutter, HW solid (carbide), Ø 7.05/9.8 mm, S Ø 12 × 40 mm, L 80 mm	<b>131342</b>

## One tool with 2 functions



**Lamello recommends making all profile grooves with a disc cutter, primarily for reasons of precision, service life, machining time and thus economic efficiency.**

A P-System CNC shank tool cutter or contour cutter should only be used for the machining of surfaces if no angle aggregate is available.



# CNC tools


For Cabineo



## Drilling System


### Cabineo drill/cutter

	Art. No.
Cabineo drill, HW, Ø 15 mm	<b>136312</b>

	
Cabineo cutter DP, Ø 10 mm	<b>136310</b>

	
Cabineo cutter DP, Ø 12 mm	<b>136311</b>

### Cabineo drills for triple aggregate\*

	
Cabineo aggregate drill, HW, rotation right, Ø 15 mm, shank Ø 6/4.5 x 18 mm, L 57.5 mm	<b>136314</b>

	
Cabineo aggregate drill, HW, rotation left, Ø 15 mm, shank Ø 6/4.5 x 18 mm, L 57.5 mm	<b>136315</b>

\* For triple drilling units: Benz MULTI V3 Cabineo, Atemag VERTINEO FUNCTION LINE, Grotefeld DPL-03-03-Cabineo, ...

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

Andreas Kuhlmann, Managing Director,  
Adolf Kuhlmann GmbH & Co. KG furnishing workshops,  
Schwerin, Germany





# Accessories/ Spare Parts

## P-System connector assortment



	Art. No.
P-System connector assortment professional, in sortainer Kit contains: 120 pairs Clamex P-14, 30 pairs Clamex P-14/10 Flexus, 30 pairs Clamex P-10, 30 pairs Tenso P-10, incl. preload clip, 120 pairs Tenso P-14, incl. preload clip, 80 pairs Divario P-18, 20 pieces Bisco P-14, 20 pieces Bisco P-10, incl. Divario installation tool/drill/marking gauge, Clamex P installation tool, Tenso P-14/10 preload tool	<b>145323</b>
P-System connector assortment basic, in Systainer <sup>3</sup> M Kit contains: 80 pairs Clamex P-14, 80 pairs Tenso P-14, incl. preload clip, 30 pairs Clamex P-14/10 Medius, 30 pairs Clamex P-14/10 Flexus, 20 pairs Bisco P-14	<b>145321</b>

## Starter kit



Divario P-18 Starter kit, in Systainer <sup>3</sup> M 137 Kit contains: 80 pairs Divario P-18, Divario installation tool, marking jig metal	<b>145552</b>
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## Lamello Systainer<sup>3</sup>



	Art. No.
Systainer <sup>3</sup> M 187, with insert and 6 partitions	<b>331579E</b>



Systainer <sup>3</sup> M 187	<b>331579</b>
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Systainer <sup>3</sup> M 187 Insert 2 partitions, incl. foam insert, RAL 7035 light grey	<b>360024</b>
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Divider insert, light grey, 125 x 117 x 2 mm	<b>360019</b>
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Systainer <sup>3</sup> M 187 plastic insert, for Zeta P2, Top 21, Classic X	<b>360020</b>
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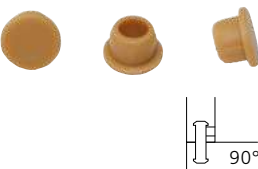
## Lamello sortainer



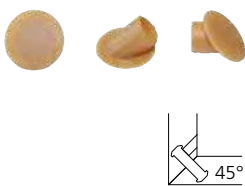
Sortainer T-Loc IV/3, incl. dividers + boxes	<b>331581</b>
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Clamex P



Clamex cover cap 90°		Art. No.
Clamex cover cap, 100 pieces, RAL 9010 pure white	○	335280
Clamex cover cap, 100 pieces, RAL 9011 graphite black	●	335281
Clamex cover cap, 100 pieces, RAL 1014 ivory, pine	●	335282
Clamex cover cap, 100 pieces, RAL 1011 brown beige, beech	●	335283
Clamex cover cap, 100 pieces, RAL 8007 fawn brown	●	335284
Clamex cover cap, 100 pieces, RAL 8017 chocolate brown	●	335289
Clamex cover cap, 100 pieces, RAL 9002 grey white	●	335285
Clamex cover cap, 100 pieces, RAL 7035 light grey	●	335286
Clamex cover cap, 100 pieces, RAL 7040 window grey	●	335287
Clamex cover cap, 100 pieces, RAL 7031 blue grey	●	335288
Clamex cover cap, 100 pieces, RAL 7022 umbra grey	●	335298
Clamex cover cap, 500 pieces, RAL 9010 pure white	○	335362
Clamex cover cap, 500 pieces, RAL 9011 graphite black	●	335363
Clamex cover cap, 500 pieces, RAL 1014 ivory, pine	●	335364
Clamex cover cap, 500 pieces, RAL 1011, brown beige, beech	●	335365
Clamex cover cap, 5000 pieces, RAL 9010 pure white	○	335296
Clamex cover cap, 5000 pieces RAL 9011 graphite black	●	335291
Clamex cover cap, 5000 pieces, RAL 1014 ivory, pine	●	335292
Clamex cover cap, 5000 pieces, RAL 1011 brown beige, beech	●	335293
Clamex cover cap, 5000 pieces, RAL 8007 fawn brown	●	335294
Clamex cover cap, 5000 pieces, RAL 8017 chocoaloate brown	●	335299
Clamex cover cap, 5000 pieces, RAL 9002 grey white	●	335295
Clamex cover cap, 5000 pieces, RAL 7040 window grey	●	335297



Clamex cover cap 45°		Art. No.
Clamex cover cap 45°, 100 pieces, RAL 9010 pure white	○	335380
Clamex cover cap 45°, 100 pieces, RAL 9011 graphite black	●	335381
Clamex cover cap 45°, 100 pieces, RAL 1014 ivory, pine	●	335382
Clamex cover cap 45°, 100 pieces, RAL 1011 brown beige, beech	●	335383
Clamex cover cap 45°, 100 pieces, RAL 8017 chocolate brown	●	335384
Clamex cover cap 45°, 100 pieces, RAL 7035 light grey	●	335386
Clamex cover cap 45°, 100 piece, RAL 7022 umbra grey	●	335388
Clamex cover cap 45°, 5000 pieces, RAL 9010 pure white	○	335390
Clamex cover caps 45°, 5000 pieces, RAL 1014 ivory, pine	●	335392
Clamex cover caps 45°, 5000 pieces, RAL 1011 Beech	●	335393



Clamex installation tool, flexible, hexagon head key, L 290	251993
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Allen key, SW 4 mm, 75 × 55 mm	271945
Allen key, SW 4 mm, 120 × 50 mm	271945A



Clamex P drill jig with drill Ø 6 mm	125344
Clamex P drill jig, angle with bushing, for Art. No. 125344	255250
Clamex P drill jig, element insert P-10, for Art. No. 125344	255251
Clamex P drill jig, element insert P-14, for Art. No. 125344	255252



Clamex P drill jig long, incl. drill Ø 6 mm, for P-14 groove	125345
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Clamex wood drill, Ø 6 mm	131506
Wood drill with centre point for Ø 6 drilling jig, Length 150 mm	131508EK
Clamex depth collar, Ø 6 mm, incl. allen key	255243





# Accessories/ Spare Parts



## Clamex S-18/Clamex S-20

		Art. No.
	Clamex S-18 drill jig, incl. drill Ø 6 mm	<b>125240</b>
	Clamex S-18 Set, incl. drill jig, reversible blades Kit contains: 125240 Clamex S drill jig, 132108 reversible blades for Clamex S, HW (carbide)	<b>125250</b>
	Clamex S-20 drill jig, incl. drill Ø 6 mm	<b>125253</b>
	Clamex S-20 Drilling and alignment jig	<b>125254</b>
	Torx-Bit 1/4" TX 10 L=25	<b>121281</b>
	Clamex wood drill, Ø 6 mm	<b>131506</b>
	Clamex installation tool, flexible, hexagon head key, L 290	<b>251993</b>




## Tenso P

	Tenso P-14/10 insertion tool	<b>145400</b>
	P-System depth adjuster cap 4 mm for P-8	<b>145439</b>

## Divario P

		Art. No.
	Divario P-18 marking jig metal, incl. drill and rotating depth stop	<b>125510</b>
	Divario P-18 marking jig plastic	<b>125511</b>
	Divario P-18 installation tool	<b>125500</b>
	Divario P-18 Starter set Scope of delivery: 80 pair Divario P-18, Divario installation tool, marking jig plastic	<b>145505</b>










## LC P-16

	P-System depth adjuster cap 2 mm for P-16	<b>251068</b>
	Clamex P drill jig, element insert P-16, suitable for Art. No. 125344 for LC P-16	<b>255255</b>
	Zeta P2 positioning clip CNC, for drill hole Ø 6 mm	<b>251067</b>









# Accessories/ Spare Parts

## Cabineo

	Art. No.
	Cabineo installation tool, with handle incl. hex bit 1/4" <b>256300</b>
	Cabineo hex bit 1/4" GL 120 mm <b>276312</b>
	Cabineo hex bit 1/4" GL 80 mm <b>276308</b>
	Cabineo hex bit 1/4" GL 80 mm, 100 pieces <b>276309</b>
	Cabineo drill, HW, Ø 15 mm <b>136312</b>
	Cabineo cutter DP, Ø 10 mm <b>136310</b>
	Cabineo cutter DP, Ø 12 mm <b>136311</b>
	Cabineo aggregate drill*, HW, rotation right, Ø 15 mm, shank Ø 6/4.5 x 18 mm, L 57.5 mm <b>136314</b>
	Cabineo aggregate drill*, HW, rotation left, Ø 15 mm, shank Ø 6/4.5 x 18 mm, L 57.5 mm <b>136315</b>
	Cabineo cover cap, 100 pieces, RAL 9003 signal white ○ <b>186350S</b>
	Cabineo cover cap, 100 pieces, RAL 9010 pure white ○ <b>186350W</b>
	Cabineo cover cap, 100 pieces, RAL 9018 papyrus white ● <b>186350P</b>
	Cabineo cover cap, 100 pieces, RAL 1015 light ivory ● <b>186350H</b>
	Cabineo cover cap, 100 pieces, RAL 1011 brown beige ● <b>186350B</b>
	Cabineo cover cap, 100 pieces, RAL 8007 fawn brown ● <b>186350R</b>
	Cabineo cover cap, 100 pieces, RAL 7040 window grey ● <b>186350F</b>
	Cabineo cover cap, 100 pieces, RAL 7005 mouse grey ● <b>186350A</b>
	Cabineo cover cap, 100 pieces, RAL 9005 jet black ● <b>186350T</b>
	Cabineo cover cap, 100 pieces, Metal look, silver ● <b>186350C</b>
	Cabineo cover cap, 100 pieces, Metal look, nickel ● <b>186350N</b>
	Cabineo cover cap, 100 pieces, Metal look, dark steel ● <b>186350D</b>






	Art. No.
	Cabineo cover cap, 2000 pieces, RAL 9003 signal white ○ <b>186351S</b>
	Cabineo cover cap, 2000 pieces, RAL 9010 pure white ○ <b>186351W</b>
	Cabineo cover cap, 2000 pieces, RAL 9018 papyrus white ● <b>186351P</b>
	Cabineo cover cap, 2000 pieces, RAL 1015 light ivory ● <b>186351H</b>
	Cabineo cover cap, 2000 pieces, RAL 1011 brown beige ● <b>186351B</b>
	Cabineo cover cap, 2000 pieces, RAL 8007 fawn brown ● <b>186351R</b>
	Cabineo cover cap, 2000 pieces, RAL 7040 window grey ● <b>186351F</b>
	Cabineo cover cap, 2000 pieces, RAL 7005 mouse grey ● <b>186351A</b>
	Cabineo cover cap, 2000 pieces, RAL 9005 jet black ● <b>186351T</b>
	Cabineo cover cap, 2000 pieces, Metal look, silver ● <b>186351C</b>
	Cabineo cover cap, 2000 pieces, Metal look, nickel ● <b>186351N</b>
	Cabineo cover cap, 2000 pieces, Metal look, dark steel ● <b>186351D</b>
	Cabineo installation tool for insert M6 <b>276310</b>









## Cabineo X

	Cabineo 12 screw, 500 pieces <b>186380</b>
	Cabineo 12 screw, 2000 pieces <b>186381</b>
	Cabineo 8 screw, 500 pieces <b>186382</b>
	Cabineo 8 M6 screw, 500 pieces <b>186384</b>
	Cabineo X shelf support Ø 5, 500 pieces <b>186386</b>
	Cabineo X shelf support Ø 3, 500 pieces <b>186388</b>
	Cabineo X screw-in aid, suitable for Cabineo hexagon bit 1/4" GL 80 mm <b>276313</b>



# Accessories/ Spare Parts

Invis Mx2		
		Art. No.
	Invis Mx2 screw bit	6112205
	Invis Mx2 MiniMag, incl. screw bit	6100301
	Invis M2 MiniMag flexible shaft	6100204
	Invis Mx2 insertion tool, for 14 mm stud	6112333
	Invis Mx2 insertion bush for Rasto, for 14 mm stud	6112330

Rasto		
		Art. No.
	Rasto spiral drill for wood, Ø 5 mm	6100160
	Rasto spiral drill for wood, Ø 6 mm	6106161
	Rasto spiral drill for wood, Ø 8 mm	6108060
	Rasto spiral drill for wood, Ø 10 mm	6110162
	Rasto spiral drill for wood, Ø 12 mm	6112060
	Rasto depth set collar, Ø 5 mm	6100059
	Rasto depth set collar, Ø 6 mm	6100063
	Rasto depth set collar, Ø 8 mm	6100060
	Rasto depth set collar, Ø 10 mm	6100064
	Rasto depth set collar, Ø 12 mm	6100061
	Invis Mx2 spacer for Rasto	6112331
	Rasto perforated plate	6160000
	Rasto drill bush, Ø 5 mm	6100065
	Rasto drill bush, Ø 6 mm	6100056
	Rasto drill bush, Ø 8 mm	6100057
	Rasto drill bush, Ø 10 mm	6100067
	Rasto drill bush, Ø 12 mm	6100058
	Rasto fixing screw, 4.5 x 35 mm, TX25	6560450
	Rasto positioning pins, Ø 5 x 40 mm	6160001
	Rasto connection rod, 500 mm, two-part	6160601



# Accessories/ Spare Parts

## Clamping Set components

	Art. No.
	<b>175005</b>
	<b>175008</b>
	<b>175010</b>
	<b>175060</b>
	<b>175050</b>
	<b>335000</b>
	<b>175200</b>
	<b>175401</b>
	<b>175402</b>
	<b>175403</b>

## Zeta P2, Classic X, Top 21

	Art. No.
	<b>251044</b>
	<b>253027</b>
	<b>253023</b>
	<b>253026</b>



# Accessories/ Spare Parts

## Zeta P2, Classic X, Top 21



	Art. No.
Groove cuttter, HW, Ø 100 x 4 x Ø 22 mm, Z2+V4, NL 4	<b>132000</b>



Groove cutter for biscuit joiners, HW, Ø 78 x 3 x Ø 22 mm, Z4, NL 4	<b>132009</b>
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Saw blade for biscuit joiners, HW, Ø 100 x 2.4 x Ø 22 mm, Z20, NL 4, incl spacers	<b>132350</b>
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Groove cutter with reversible blades, HW, Ø 100 x 4 x Ø 22 mm, Z4, NL 4	<b>132001</b>
Reversible blades set for 4 mm groove cutter, 4 pieces, suitable for item no. 132101/132001	<b>132111</b>
Countersunk screw, M4 x 8 mm	<b>352408T</b>
Allen key, SW4 mm, 144 x 29 mm	<b>271959L</b>



Groove cutter HW with reversible blades, Ø 100 x 4 x Ø 22 mm, Z4+V4, WS, NL 4, without hub	<b>132130</b>
Kit contains: Groove cutter, HW, Torx key T9, 4 x screws, spacer	
Main teeth for groove cutter with rev. blades 4 mm, 10 pieces, for Art. No. 132130	<b>132134</b>
Scoring teeth for groove cutter with rev. blades, 10 pieces, for Art. No. 132130	<b>132135</b>
Reversible blades set for 4 mm groove cutter, 4 pieces, suitable for item no. 132130	<b>132133</b>
Screw, for groove cutter with rev. blades Art. No. 132130	<b>352130</b>
Torx key, for groove cutter rev. blades Art. No. 132130, TX9	<b>352133</b>



Groove cutter with reversible blades, for biscuit joiner, HW, Ø 100 x 8 x Ø 22 mm, Z4+V4, NL 4, WS, for Clamex S-18	<b>132108</b>
Scoring teeth for groove cutter with rev. blades 8 mm, 10 pieces for Art. No. 132108	<b>132137</b>
Main teeth for groove cutter with rev. blades 8 mm, 10 pieces for Art. No. 132108	<b>132136</b>
Rerversible blades for 8 mm groove cutter, 4 pieces, suitable for item no. 132108	<b>132114</b>



	Art. No.
Spacer disk, Ø 40 x 1 x Ø 22 mm, NL 4	<b>322510</b>



Flange to saw blades, incl. screws, Ø 45 x 5.5 mm, M8, NL 4	<b>252502</b>
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## Classic X



Groove cutter HW for Classic X, Ø 100 x 4 x Ø 22 mm, Z6 alternating teeth	<b>132106</b>
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## Zeta P2 cordless and Zeta P2



Zeta P2, P-System groove cutter, DP (Diamond), Ø 100.4 x 7 x Ø 22 mm, Z3, NL 4	<b>132140</b>
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Zeta P2, P-System groove cutter, HW, Ø 100.9 x 7 x Ø 22 mm, Z3, NL 4	<b>132141</b>
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## Combination CNC and Zeta P2



Zeta P2 positioning pin CNC*, Ø 5 mm, 2 pieces	<b>251048</b>
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Zeta P2 positioning pin CNC*, Ø 8 mm, 2 pieces	<b>251066</b>
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Zeta P2 positioning clip CNC*, for drill hole Ø 6 mm	<b>251067</b>
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# Accessories/ Spare Parts

## Dust bag and accessories



	Art. No.
Dust bag, for Zeta P2, Top 21, Classic X	257532
Extractor stub 36 mm, for Zeta P2, Top 21, Classic X	331007
Deflector stub 90°, Ø 23 mm, for Zeta P2, Top 20/21, Classic X	331005

## Battery



Battery pack 18V, LiHD 4.0 Ah, for Zeta P2 cordless, Classic X cordless	313013
Battery pack 18V, LiHD 5.5 Ah, for Zeta P2 cordless, Classic X cordless	313015
Battery charger ASC 55, plug type C Euro, for Zeta P2 cordless, Classic X cordless	123100DE
Battery charger ASC 55, plug type G, GB, for Zeta P2 cordless, Classic X cordless	123100GB






# Disclaimer regarding load limits

Wherever we list information on material strength or loads for our products, they are empirical values of load limits, based on specifically defined test conditions similar to DIN 68501:2016-11. Specific characteristics, in particular to the effect that the products will reach the listed loads in the actual used case, are not thereby guaranteed. Rather, it is the responsibility of the respective user to check and ensure the suitability of the products for each specific used case. Since actual load limits substantially depend on circumstances unrelated to the products themselves, e.g. the properties of the carrier materials used, the selection of suitable screws, the assembly or the installation environment, any advice provided by us in the form of a product recommendation with regard to a specific suitability is always non-binding and does not release the user from his or her own examination.

**To the maximum extent possible under the law, all warranties, express or implied are DISCLAIMED. This includes, but is not limited to, any warranty of fitness for a particular purpose or merchantability. We undertake no responsibility that the goods except as may be included in any contract, and we assume no responsibility that the goods will be fit for any particular purpose, except as may be provided in any contract.**



# Machine overview

		Art. No.	Product page
<b>Zeta P2 cordless biscuit joiner</b> 	DP, Set, in systainer, incl. batteries, charger type C Euro	<b>101801DESD</b>	P. 64
	DP, in systainer, without batteries without charger	<b>101800DESD</b>	P. 64
	DP, Set, in systainer, incl. batteries, charger type G	<b>101801GBSD</b>	P. 64
	DP, in systainer, without batteries without charger	<b>101800GBSD</b>	P. 64
<b>Zeta P2 biscuit joiner</b> 	HW, plug type F Schuko, in Systainer <sup>3</sup> M	<b>101403DES</b>	P. 66
	HW, plug type G, in Systainer <sup>3</sup> M	<b>101403GBS</b>	P. 66
	DP, plug type F Schuko, in Systainer <sup>3</sup> M	<b>101403DESD</b>	P. 66
	DP, plug type G, in Systainer <sup>3</sup> M	<b>101403GBSD</b>	P. 66
<b>Classic X cordless biscuit joiner</b> 	Set, in systainer, incl. batteries, charger type C Euro	<b>101701DES</b>	P. 106
	In systainer, without batteries without charger	<b>101700DES</b>	P. 106
	In carton, without batteries without charger	<b>101700DEK</b>	P. 106
	In systainer, incl. batteries, charger plug type G	<b>101701GBS</b>	P. 106
	In systainer, without batteries without charger	<b>101700GBS</b>	P. 106
	In carton, without batteries without charger	<b>101700GBK</b>	P. 106
<b>Classic X biscuit joiner</b> 	Plug type F Schuko, in Systainer <sup>3</sup> M	<b>101602DES</b>	P. 108
	Plug type F Schuko, in carton	<b>101602DEK</b>	P. 108
	Plug type G, in Systainer <sup>3</sup> M	<b>101602GBS</b>	P. 108
	Plug type G, in carton	<b>101602GBK</b>	P. 108
<b>Top 21 biscuit joiner</b> 	Plug type F Schuko, in Systainer <sup>3</sup> M	<b>101501DES</b>	P. 110
	Plug type G, in Systainer <sup>3</sup> M	<b>101501GBS</b>	P. 110
	Plug type F Schuko, in Systainer <sup>3</sup> M with WS-cutter	<b>101501DESW</b>	P. 110





# Systainer and sortainer

		Art. No.	Product page
<b>P-System connector assortment professional</b> 	In sortainer Kit contains: 120 pairs Clamex P-14, 30 pairs Clamex P-14/10 Flexus, 30 pairs Clamex P-10, 30 pairs Tenso P-10, incl. preload clip, 120 pairs Tenso P-14, incl. preload clip, 80 pairs Divario P-18, 20 pieces Bisco P-14, 20 pieces Bisco P-10, incl. Divario installation tool/drill/marketing gauge, Clamex P installation tool, Tenso P-14/10 preload tool	<b>145323</b>	P. 170
<b>P-System connector assortment basic</b> 	In Systainer <sup>3</sup> M Kit contains: 80 pairs Clamex P-14, 80 pairs Tenso P-14, incl. preload clip, 30 pairs Clamex P-14/10 Medius, 30 pairs Clamex P-14/10 Flexus, 20 pairs Bisco P-14	<b>145321</b>	P. 170
<b>Divario P-18 Starter kit</b> 	In Systainer <sup>3</sup> M Kit contains: 80 pairs Divario P-18, Divario installation tool, marking jig metal	<b>145552</b>	P. 52/170
<b>Zeta P2 Set</b> 	DP, plug type F Schuko, in Systainer <sup>3</sup> M incl. connector assortment	<b>101403DESET</b>	P. 68
	DP, plug type G, in Systainer <sup>3</sup> M incl. connector assortment	<b>101403GBSET</b>	P. 68
	Scope of delivery 1st systainer 1 pce Zeta P2 biscuit joiner, Clamex P drill jig incl. drill, adapter 36 mm, spacer 2 and 4 mm, set of tools, stop square  Scope of delivery 2nd systainer: 1 pce Divario P-18 Starter Set in Systainer <sup>3</sup> M Consisting of: 80 pairs Divario P-18, marking jig metal, installation tool, drill  Scope of delivery 3rd systainer: 1 pce P-System connector set in Systainer <sup>3</sup> M Consisting of: 80 pairs Clamex P-14, 80 pairs Tenso P-14 incl. preload tool		
<b>Systainer<sup>3</sup> M 187</b> 	With insert and 6 partitions	<b>331579E</b>	P. 171
	Systainer <sup>3</sup> M 187	<b>331579</b>	P. 171
	Insert 2 partitions, incl. foam insert, RAL 7035 light grey	<b>360024</b>	P. 171
	Divider insert, light grey, 125 × 117 × 2 mm	<b>360019</b>	P. 171
	Plastic insert, for Zeta P2, Top 21, Classic X	<b>360020</b>	P. 171
<b>Sortainer</b> 	T-Loc IV/3, incl. dividers + boxes	<b>331581</b>	P. 171





# Overview of connectors




## P-System

	<b>Clamex P</b> Detachable	<b>Clamex P-14</b>	⊖ 80 300 1000	<b>145334</b> <b>145346</b> <b>145356</b>	≥ 12	≥ 15	≥ 29		P14	P. 34	P. 74
		<b>Clamex P-14 CNC</b> element with lever	▽ 2000	<b>145388</b>					P14	P. 42	P. 75
		<b>Clamex P-14/10 Medius</b>	⊖ 80 300 1000	<b>145370</b> <b>145371</b> <b>145357</b>			P14/ P10		P. 36	P. 74	
		<b>Clamex P-10</b>	⊖ 80 300 1000	<b>145372</b> <b>145373</b> <b>145374</b>		≥ 11			P10	P. 38	P. 74
		<b>Clamex P-14/10 Flexus</b>	⊖ 80 300 1000	<b>145315</b> <b>145316</b> <b>145317</b>		≥ 16			≥ 18	P14/ P10	P. 40
	<b>Bisco P</b> Detachable	<b>Bisco P-14</b>	▽ 80 300 1000	<b>145301</b> <b>145302</b> <b>145303</b>	≥ 12	≥ 15 <sup>1</sup> (≥ 11 <sup>1</sup> )	≥ 21 <sup>1</sup>	≥ 18	P14	P. 46	P. 76
		<b>Bisco P-10</b>	▽ 80 300	<b>145304</b> <b>145305</b>					P10	P. 46	P. 76
	<b>Tenso P</b> Glueing	<b>Tenso P-14</b>	⊖ 80 300 1000	<b>145415</b> <b>145425</b> <b>145435</b>	≥ 12	≥ 15 (≥ 11 <sup>1</sup> )	≥ 19 <sup>1</sup>	≥ 18	P14	P. 48	P. 77
		<b>Tenso P-10</b>	⊖ 80 300 1000	<b>145418</b> <b>145428</b> <b>145438</b>					P10	P. 50	P. 77
	<b>Divario P</b> Sliding insertion	<b>Divario P-18</b>	⊖ 80 300 1000	<b>145550</b> <b>145560</b> <b>145570</b>	≥ 12	≥ 11	≥ 18	–	P18/0	P. 52	P. 77
<b>LC P-16</b>	<b>LC P-16 × 11</b>	▽ 80 1000	<b>145710</b>	≥ 16	≥ 12	≥ 19	–	P18 <sup>3</sup>	P. 56	P. 78	
			<b>145711</b>						P. 56	P. 78	
	<b>LC P-16 × 17</b>	▽ 80 1000	<b>145720</b>	≥ 16	≥ 12	≥ 19	–	P18 <sup>3</sup>	P. 56	P. 78	
			<b>145721</b>						P. 56	P. 78	
<b>LC P-16 × 22</b>	▽ 80 1000	<b>145730</b>	≥ 16	≥ 12	≥ 19	–	P18 <sup>3</sup>	P. 56	P. 78		
		<b>145731</b>						P. 56	P. 78		




## Lamello System

	<b>Original wood biscuit</b> Glueing	<b>Original wood biscuit 20</b>	▽ 1000	<b>144020</b>	≥ 6	≥ 13	≥ 26	≥ 12	20	P. 90	P. 114
		<b>Original wood biscuit 10</b>	▽ 1000	<b>144010</b>		≥ 11	≥ 21	≥ 10	10	P. 90	P. 114
		<b>Original wood biscuit 0</b>	▽ 1000	<b>144000</b>		≥ 9	≥ 17	≥ 9	0	P. 90	P. 114
		<b>Original wood biscuit H9</b>	▽ 1000	<b>144009</b>		≥ 5	≥ 8	≥ 15	≥ 8	max <sup>2</sup>	P. 90
	<b>C20/10</b> Glueing	<b>C20</b>	▽ 250	<b>145010</b>	≥ 6	≥ 13	≥ 26	≥ 13	20	P. 100	P. 115
		<b>C10</b>	300	<b>145012</b>		≥ 11	≥ 21	≥ 10	10	P. 100	P. 115

Minimum material thicknesses depend on the materials used  
<sup>1</sup> Displacer installation (more information regarding on **PAGE 49/51**)  
<sup>2</sup> Additional use of the clip  
<sup>3</sup> Additional use of the P-System depth adjuster cap 2 mm for P-16

 <b>Clamex S</b> Detachable	<b>Clamex S-20</b>	⊖ 20 80 300 1000	<b>145243</b> <b>145244</b> <b>145245</b> <b>145246</b>	≥ 8	≥ 16	≥ 32	≥ 14	20	P. 94	P. 116
	<b>Clamex S-18</b>	⊖ 18 80 300 1000	<b>145231</b> <b>145236</b> <b>145241</b> <b>145251</b>					D	P. 96	P. 116
 <b>E20</b> Inserted	<b>E20-H</b>	▽ 80 400 1200	<b>145021</b> <b>145026</b> <b>145028</b>	≥ 8	–	–	≥ 14	S	P. 92	P. 117
	<b>E20-L</b>	▽ 80 400 1200	<b>145022</b> <b>145025</b> <b>145027</b>	≥ 8	–	–	≥ 25	20 D max	P. 92	P. 117
 <b>K20</b> Inserted	<b>K20</b>	▽ 80 250	<b>145001</b> <b>145000</b>	≥ 8	≥ 14	≥ 25	≥ 14	20	P. 98	P. 117

## Drilling System

 <b>Cabineo</b> Detachable	<b>Cabineo 12</b>	▽ 500 2000	<b>186320</b> <b>186321</b>	≥ 12	≥ 13	≥ 24	–	–	P. 128	P. 148
	<b>Cabineo 12 black</b>	▽ 500 2000	<b>186330</b> <b>186331</b>					–	P. 128	P. 148
	<b>Cabineo 8</b>	▽ 500 2000	<b>186310</b> <b>186311</b>	≥ 12	≥ 9	≥ 16	–	–	P. 130	P. 148
	<b>Cabineo 8 black</b>	▽ 500 2000	<b>186340</b> <b>186341</b>					–	P. 130	P. 148
	<b>Cabineo 8 M6</b>	▽ 500 2000	<b>186315</b> <b>186316</b>	≥ 12	≥ 9	≥ 16	–	–	P. 132	P. 148
	<b>Cabineo 8 M6 black</b>	▽ 500 2000	<b>186345</b> <b>186346</b>					–	P. 132	P. 148
 <b>Cabineo X</b> Detachable	<b>Cabineo insert M6 × 12.3 mm</b>	▽ 100 500	<b>186370</b> <b>186371</b>	≥ 14	≥ 14	14-16	–	–	P. 134	P. 149
	<b>Cabineo insert M6 × 15.3 mm</b>	▽ 100 500	<b>186375</b> <b>186376</b>					–	P. 134	P. 149
	<b>Cabineo X</b>	▽ 500 2000	<b>186360</b> <b>186361</b>	≥ 12	≥ 9	≥ 24	–	–	P. 136	P. 148
	<b>Cabineo X black</b>	▽ 500 2000	<b>186365</b> <b>186366</b>					–	P. 136	P. 148
	<b>Cabineo 12 screw</b>	▽ 500 2000	<b>186380</b> <b>186381</b>	–	≥ 13	≥ 24	–	–	P. 136	–
	<b>Cabineo 8 screw</b>	▽ 500	<b>186382</b>	–	≥ 9	≥ 16	–	–	P. 136	–
 <b>Invis Mx2</b> Detachable	<b>Cabineo 8 M6 screw</b>	▽ 500	<b>186384</b>	–	≥ 9	≥ 16	–	–	P. 136	–
	<b>Cabineo X shelf support Ø 5</b>	▽ 500	<b>186386</b>	–	≥ 9	≥ 16	–	–	P. 136	–
	<b>Cabineo X shelf support Ø 3</b>	▽ 500	<b>186388</b>	–	≥ 9	≥ 16	–	–	P. 136	–
	<b>Invis Mx2 connector set</b> incl. 14 mm studs	⊖ 20	<b>6012300</b>	≥ 18	≥ 15	–	–	–	P. 142	P. 150
	<b>Invis Mx2 connector set</b> incl. 30 mm studs	⊖ 20	<b>6012301</b>		≥ 33	–	–	–	P. 142	P. 150
	<b>Invis Mx2 connector 35 mm</b>	▽ 20	<b>6012317</b>		–	–	–	–	P. 144	–
	<b>Invis Mx2 stud 14 mm</b>	▽ 20	<b>6012312</b>		≥ 15	–	–	–	P. 144	P. 150
	<b>Invis Mx2 stud 30 mm</b>	▽ 20	<b>6012309</b>		≥ 33	–	–	–	P. 144	P. 150
	<b>Invis Mx2 centre wall stud</b>	▽ 10	<b>6012208</b>		–	10-30	–	–	P. 144	P. 151



# Plan your furniture with Lamello

Are you planning a piece of furniture and you know what it needs to look like, but don't know which connector to use? Our new website makes it easy for you to find the right connector.

Use the P-System configurator to display the correct position in the workpiece. Watch the tutorial videos for practical applications and useful tips. Try it for yourself at [www.lamello.com](http://www.lamello.com)!

## Product finder

New, refined search options for your unique furniture!

Products

Solutions

Service

Contact

Company

Product / article number

Hide filter

Category

Connector features

Connection type

Min. material thickness for 90° corner joint

Min. material thickness for 90° mitre joint

Min. material thickness for centre wall joint

Min. material thickness for surface joint 180°

Min. workpiece width

Product family

System

Reset filter

Clamex P-14

Detachable furniture connector

Clamex P-10

Detachable connector for materials from 12 mm thickness

Clamex P-14/10 Medium

Detachable furniture connector

Clamex P-14/10 Flexus

Detachable furniture connector with flexible positioning pins

Clamex P-14 CNC

Detachable furniture connector with precise alignment

Bisco P

Aligning element, suitable for the P-System groove

Tenso P-14

Self-clamping connector for gluing materials from 16 mm thickness

Tenso P-10

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

Divario P-18

Self-clamping, invisible connector for slide insertion

Zeta P2 cordless

The powerful P-System biscuit joiner for cordless freedom

Zeta P2

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

Wooden biscuit

The original wood biscuit that always fits

Load more

You are looking for a connector for your sideboard that should have the following features:

– invisible joint

– mitre joint

– in a material thickness of 16 mm



## P-System configurator

The configurator shows the exact positioning in the workpiece.

Products

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Service

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Company

P-System Configurator

Find the right connector for your applications

Joining situation:

Angle α [°]:

90

Material thickness M1 [mm]:

16

Material thickness M2 [mm]:

16

Calculate

Print connection solution

Connector	Processing information							
	CNC		Zeta P2					
	X1	X2	Without spacer		With 2 mm spacer		With 4 mm spacer	
	X1	X2	X1	X2	X1	X2	X1	X2
Clamex P-14	9.5	9.5	9	10	11	8	13	6
Clamex P-14 CNC	9.5	9.5	-	-	-	-	-	-
Clamex P-14 Flexus	9.5	9.5	9	10	11	8	13	6
Clamex P Medium 14/10	9.5	9.5	9	10	11	8	13	6
Clamex P-10	9.5	9.5	9	10	11	8	13	6
Tenso P-14	9.5	9.5	9	10	11	8	13	6
Tenso P-10	9.5	9.5	9	10	11	8	13	6
Divario P-18	9.5	9.5	9	10	11	8	13	6

All information is subject to change: every connection is greatly dependent on the specific application, size and material. We strongly recommend preparing a test piece.





Lamello

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