

Lamello

INTERFER

Catalogue

2023/2024

english



*A strong
connection.
Inspiring.*

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

Susanne Affolter, Managing Director and Owner at Lamello AG



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The time-saving joining system with form-locking anchoring

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Without waiting time, clamps, or secondary processes, glued and clamped in 40 seconds	
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Lamello System74 – 117

The original for efficient, intuitive and precise joints

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*Creating
value
together*



*Far-reaching.
Close to home.*



At home right
across the globe.

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



Headquarter:

- Switzerland

Subsidiaries:

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

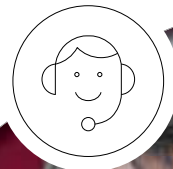
Markets with Lamello
sales representatives:

- England
- Eastern Europe
- Spain
- Southeast Europe

We are here for you!

Support in person

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



Latest news

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



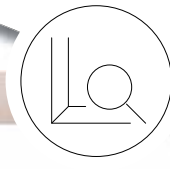
Our services

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



Support in your planning

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



Qualified sales partners

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



Competent planning and machining partners

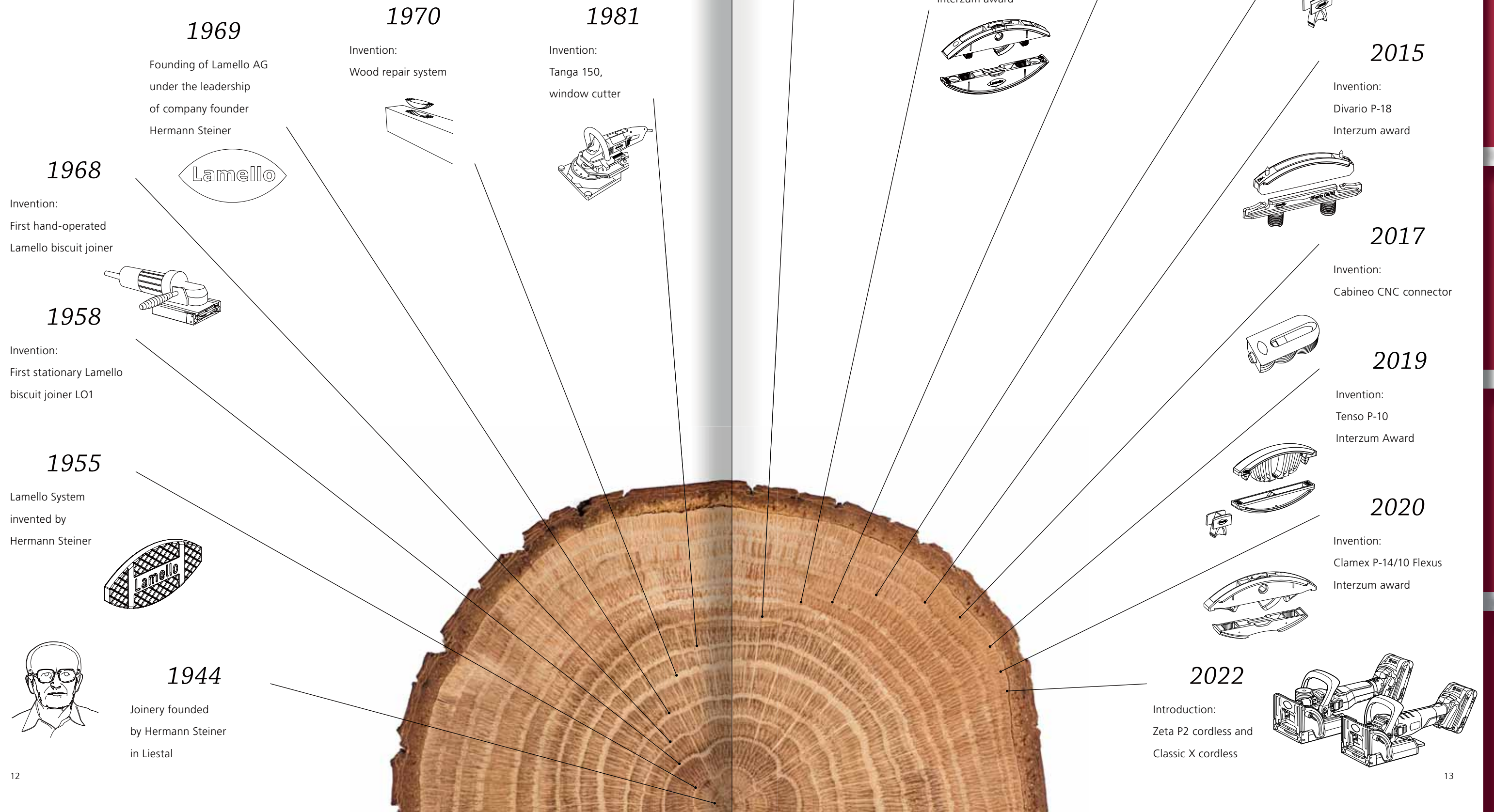
From planning and design to the right tool to machine with the CNC machine: more than 40 industry-leading partner companies support the efficient use and integration of our products into your production.



Looking back. Thinking ahead.

Every milestone starts with an idea. However, revolutionary ideas do not just come about easily. It is only through many years of practical knowledge and intensive development working together with our

customers that we have been able to constantly come up with new solutions, and in so doing decisively shape the market for wood joining technology and wood processing to this day.



In the centre: the customer

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

Nils Ingwersen

Process Planning Manager
Carpentry Mario Beck, Hamburg, Germany

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

Roger Schneider

Site Manager, Tschudin AG, Münchenstein, Switzerland

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

Hannes Kofler

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

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

Jeffrey De Smet

Self-employed carpenter, Artisanal interior furniture maker, Belgium

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

Andreas Kuhlmann

Managing Director, Adolf Kuhlmann furnishing workshops, Schwerin, Germany

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

John Hampton

Production Manager, Artichoke, Somerset, England

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

Günther Schweiger

Speedmaster Managing Director, Eberstälzell, Austria

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





Joining technology with 3 systems



P-System

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

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



Lamello System

The **Lamello System** is an exceptionally efficient, simple and precise joining system for various materials. It is based on a 4 mm groove and offers an enormous variety of joining solutions. The original wood biscuit has been supplemented by the self-clamping element, the clamping element and transparent plastic



Drilling System

element for solid surface materials. The same applies to the Simplex and Clamex S-18 detachable connectors. These can be easily assembled and disassembled. All connectors can be machined with the biscuit joiners Classic X, Top 21 and Zeta P2.

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

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

Our strengths



Independent & self-determined

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



Personal & unconstrained



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



Inventive & imaginative

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



First-class & flawless

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



Systems

- P-System
- Lamello System
- Drilling System

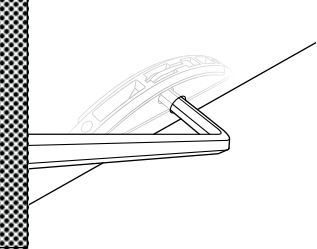
Overview

P-System	
Joining methods	Connector

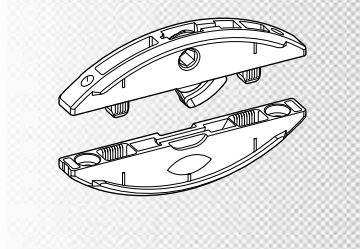
With P-System groove cutter



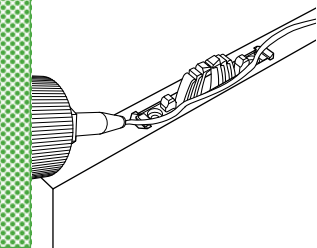
Detachable



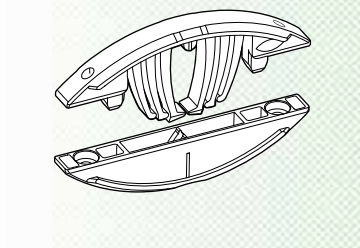
Clamex P



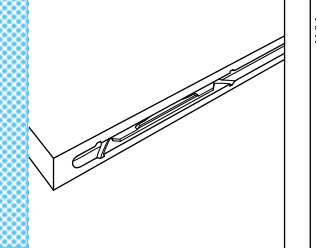
Glueing



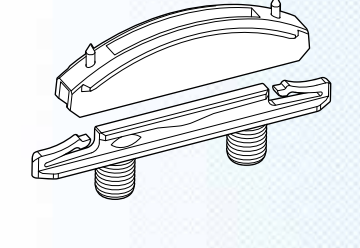
Tenso P



Sliding insertion



Divario P

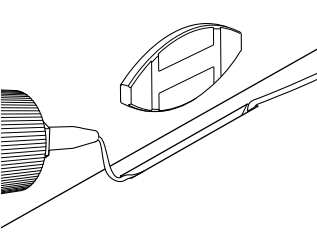


Lamello System	
Joining methods	Connector

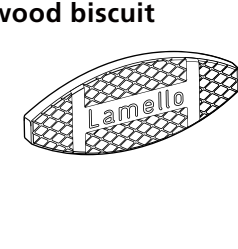
With 4 mm Lamello System groove cutter



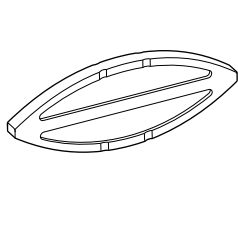
Glueing



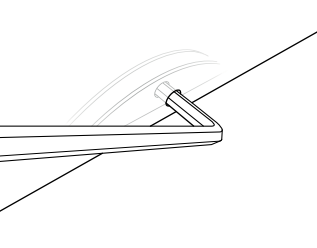
Original wood biscuit



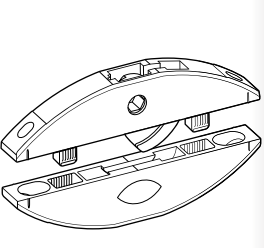
C20



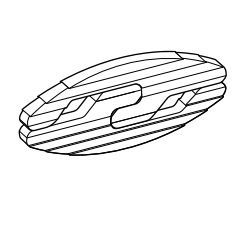
Detachable



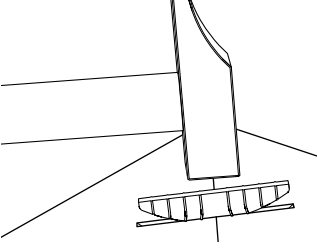
Clamex S-18



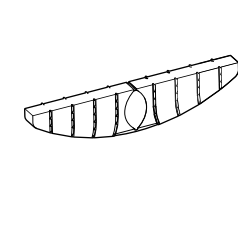
Simplex



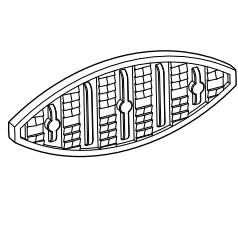
Inserted



E20



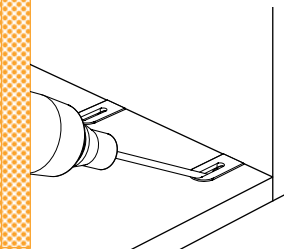
K20



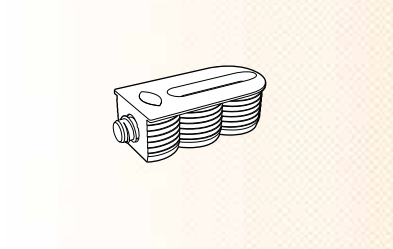
Drilling System	
Joining methods	Connector



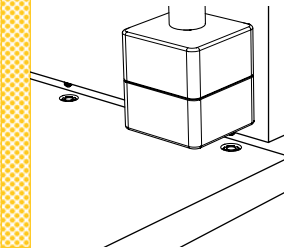
Detachable



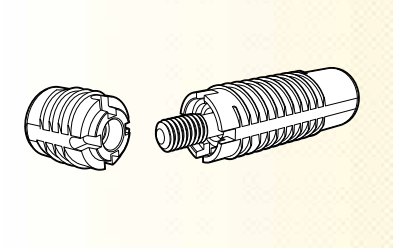
Cabineo



Detachable



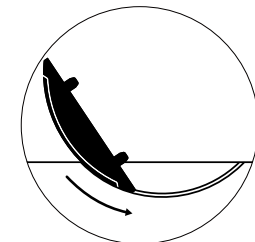
Invis Mx2



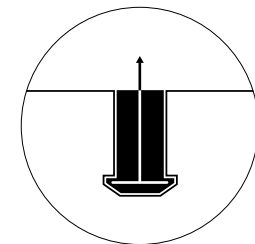
P-System

The time-saving joining system
with form-locking anchoring

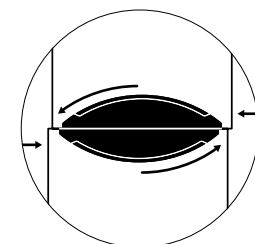
Features



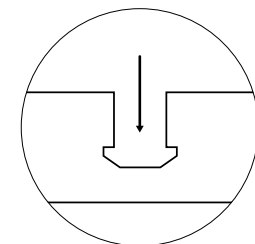
Fast installation
Inserting instead of
screwing or glueing



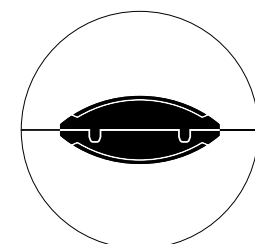
Strong
Form-locking
anchorage across
large surface areas



Lateral tolerance
Perfect, flush
alignment of both
workpieces

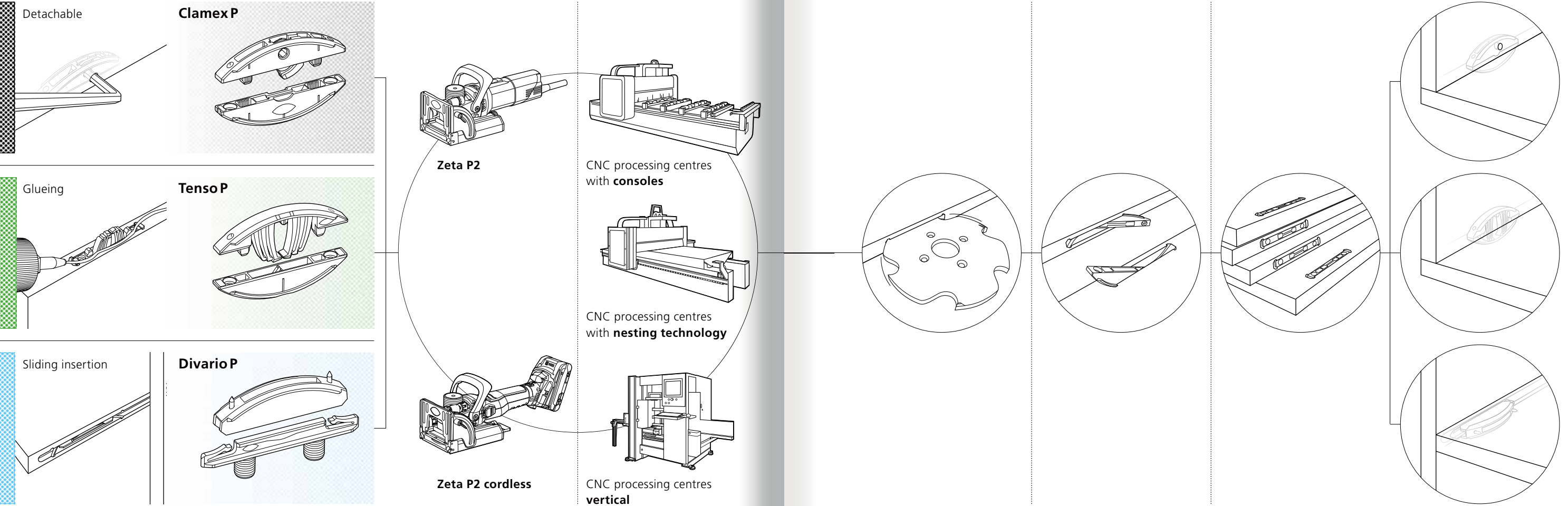


Shallow depth
Minimal cutting
depth with maximum
tensile strength



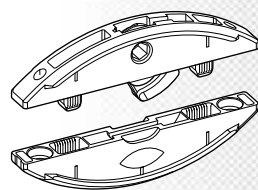
No twisting
The positioning
pins prevent
twisting without
additional dowels

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



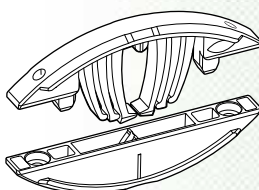
Connectors

Features overview



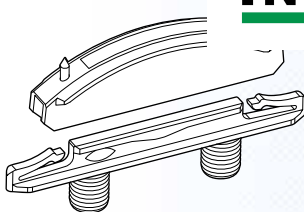
Clamex P

Detachable furniture connector



Tenso P

Self-clamping connector for glueing

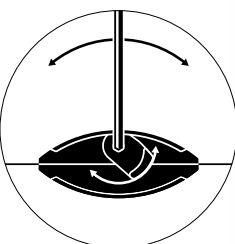


Divario P

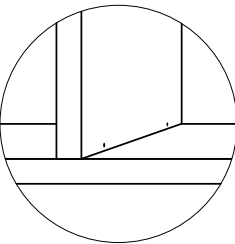
Self-clamping, invisible connector
for slide insertion



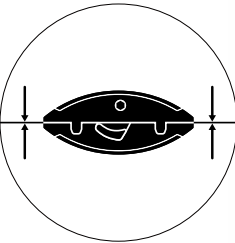
Features



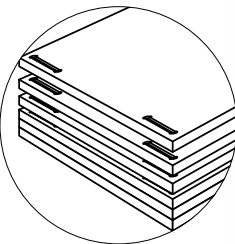
Detachable
Open the connection
time and time again with the
rotating lever



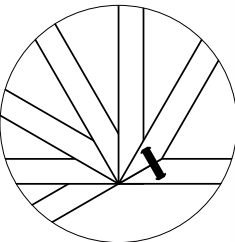
Aesthetic
The small, hardly visible
opening ($\varnothing = 6\text{ mm}$) serves
to close and open the
connector



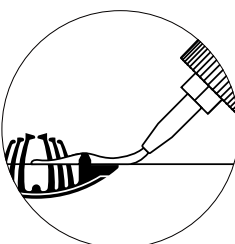
High clamping force
Clamp and glue
workpieces at any angle,
~ 80 kg or 170 lb



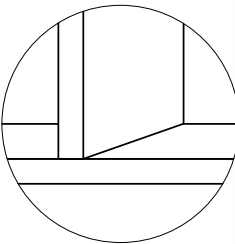
Stackable
Workpieces with pre-installed
P-System connectors are
stackable for storage and
transport



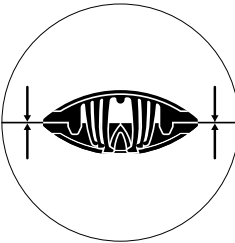
Versatile
The shallow element depth
allows for mitres from
22.5 – 180°, surface,
corner and dividing panel
connections



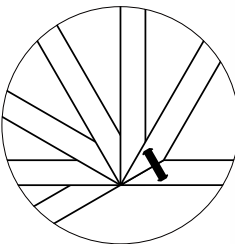
Glueing
Fixed joints of
two workpieces



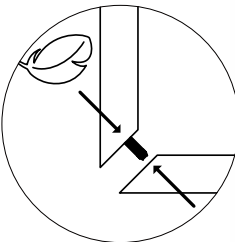
Invisible
No visible connector



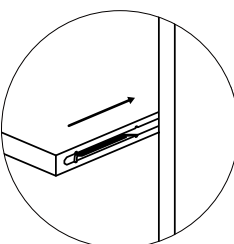
High clamping force
Allows for perfect
alignment and clamps
the workpieces ~
15 kg or 30 lb



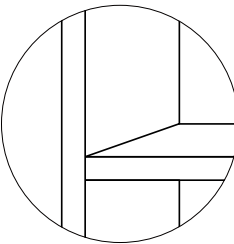
Versatile
Simple glueing of
mitre joints



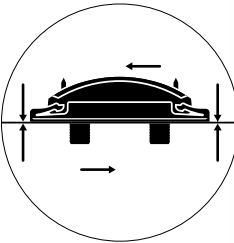
Lower assembly force
In combination with the
pretension clip, only a short
force impulse is required
to snap it into place



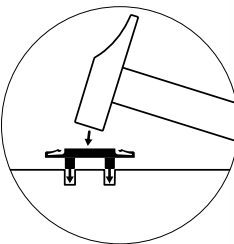
Sliding insertion
Insertion between two
fixed sides or shelves via a
guiding groove



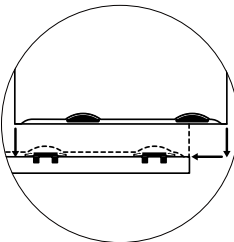
Invisible
Guiding groove covers the
connectors



Clamped joint
No resistance while inserting
until shortly before building
the clamping force



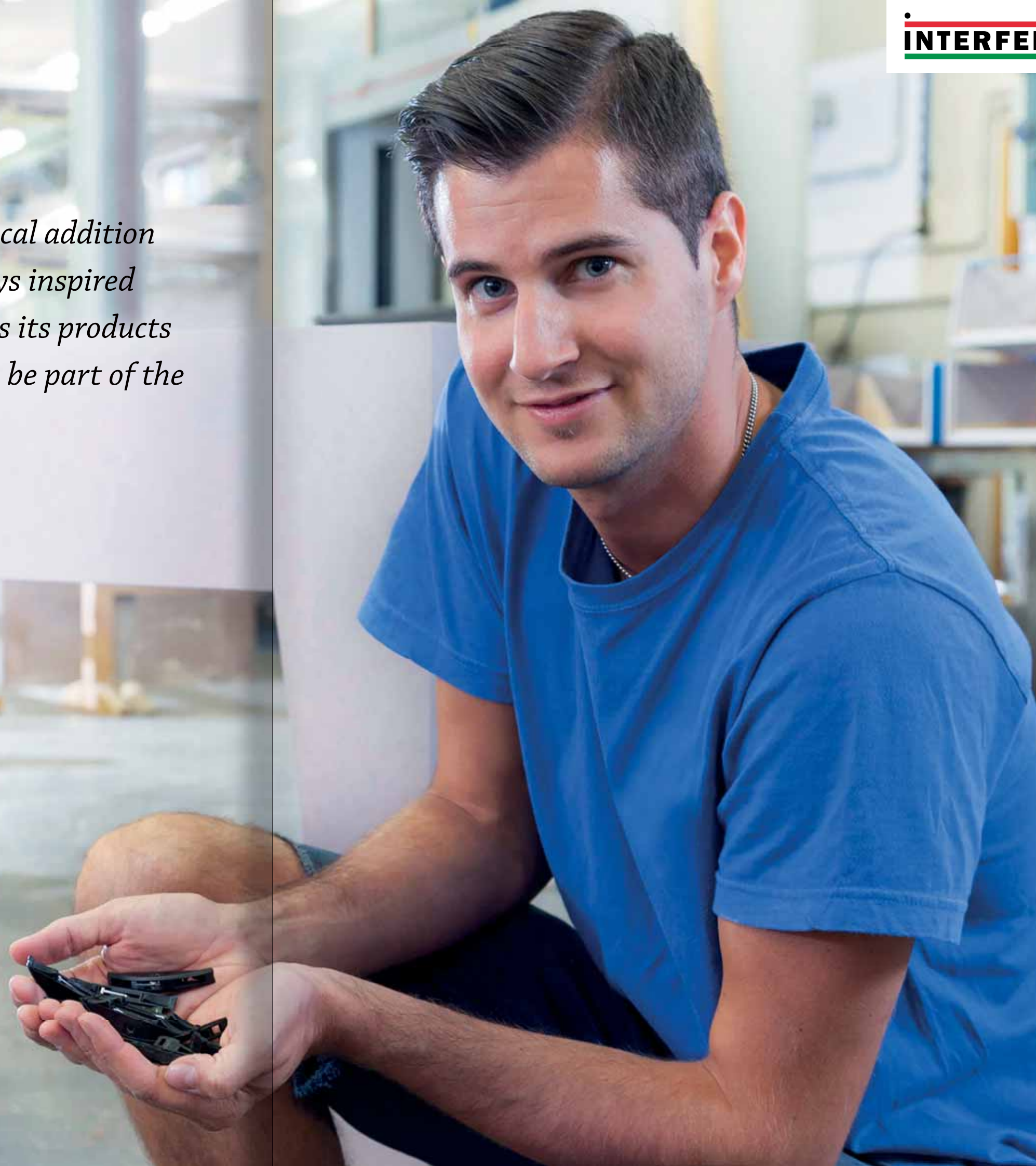
Fast installation
Quick installation of the
connectors without glue
after transport



Assemble by sliding
Partially routed guiding
groove for completely
invisible furniture joints

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

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



P-System

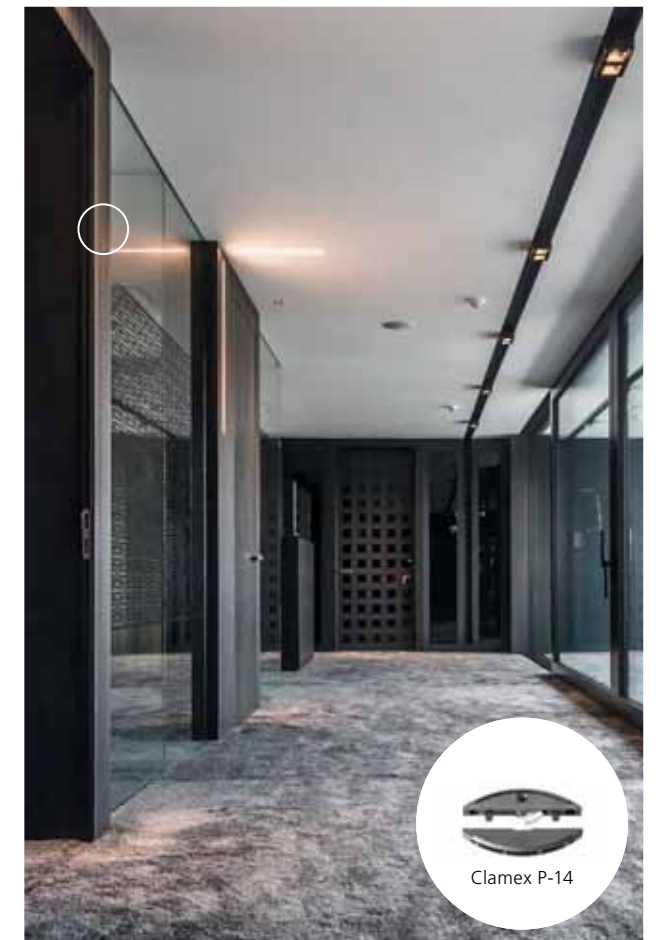
Applications

INTERFER

Furniture manufacturing



Interior fitting

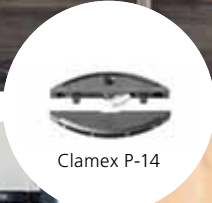


P-System

Applications



Kitchen manufacturing



Commercial joinery



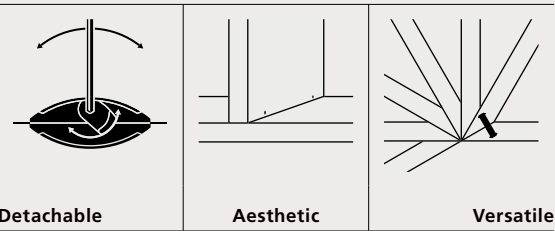
Shop fitting

Clamex P-14

Detachable furniture connector



Features





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

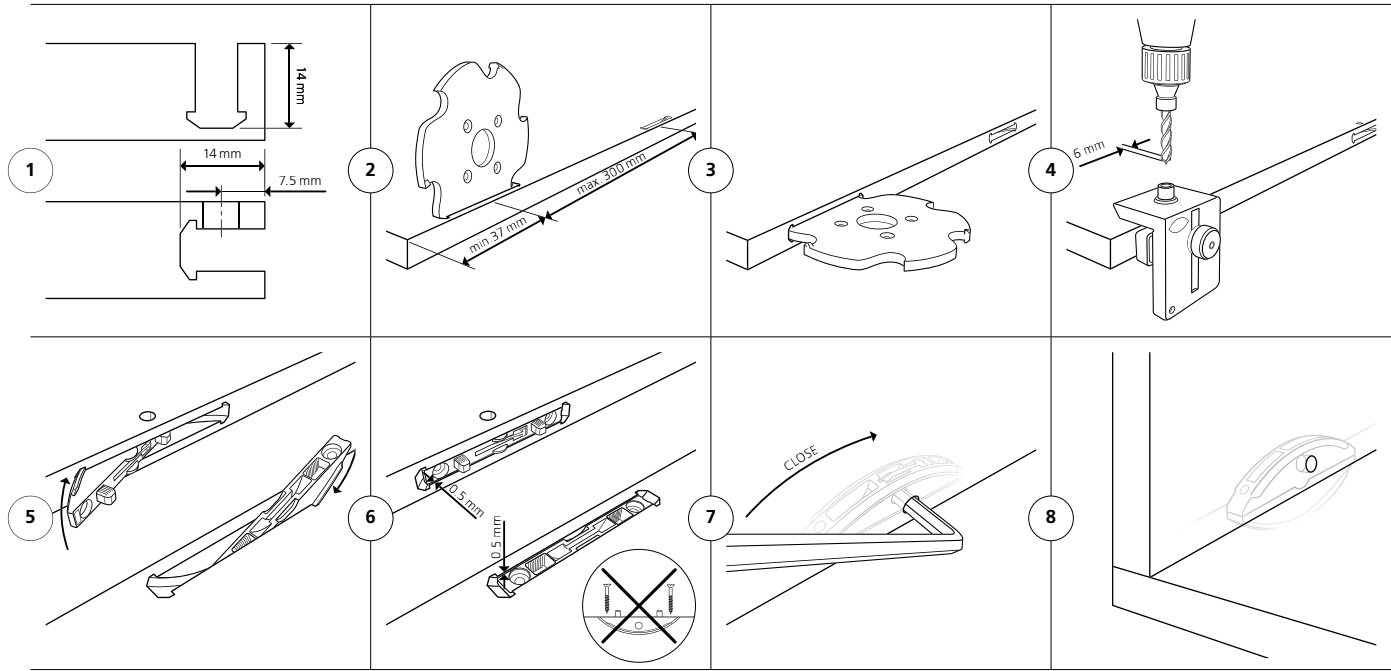
Through the minimalist 6 mm access hole, Clamex P-14 is firmly connected and disconnected using a lever.

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

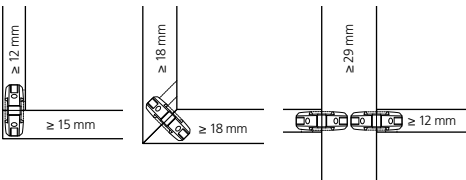
Articles

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

Function



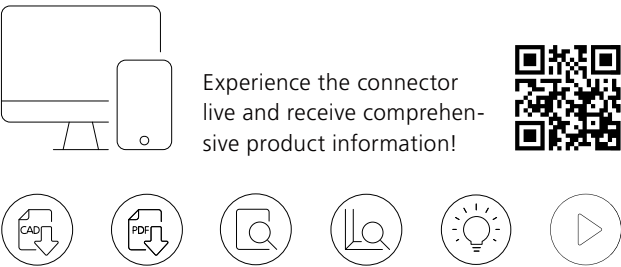
Technical data

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

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

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

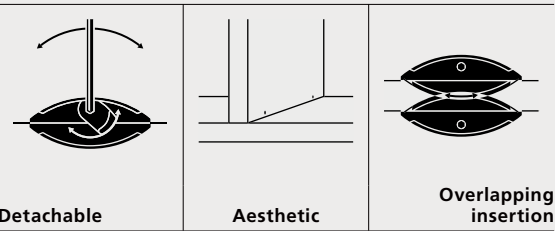
www.lamello



Clamex P-14/10 Medius

Detachable connector for centre panels for materials from 16 mm thickness

Features



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

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

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

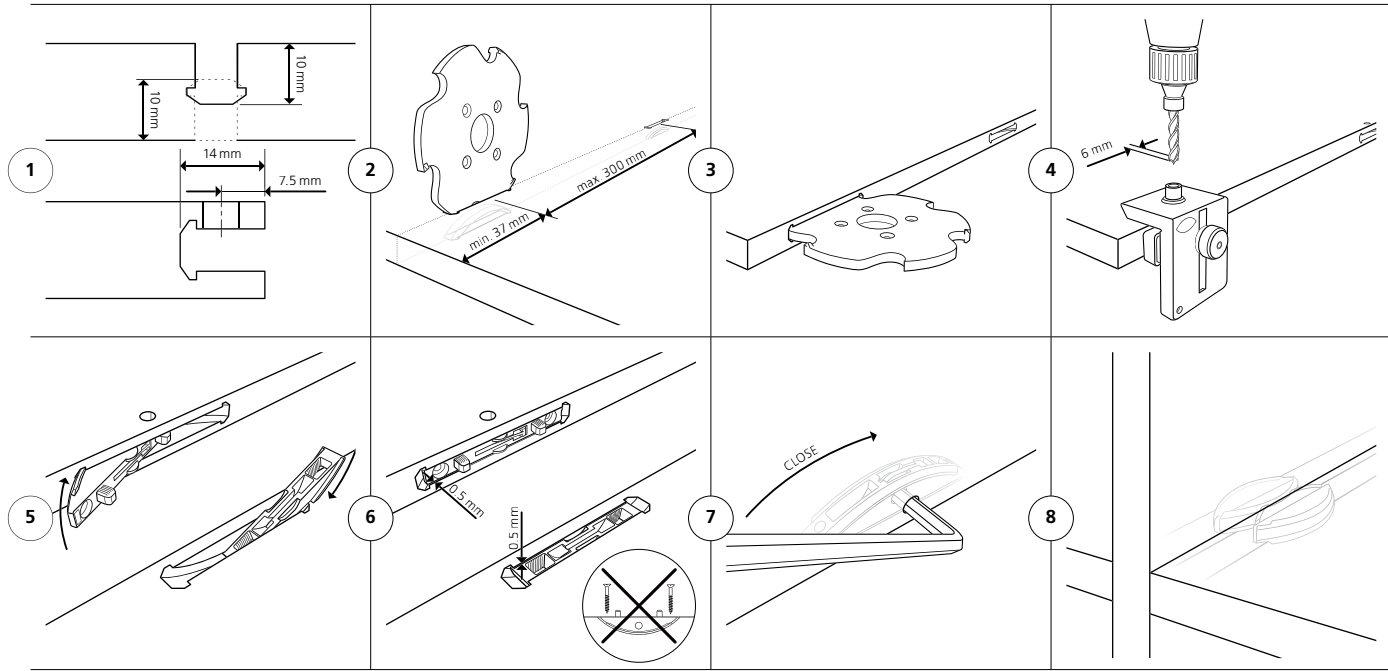
Articles

	Art. No.
80 pairs	145370
300 pairs	145371
1000 pairs	145357
2000 pieces element with lever	145338
2000 pieces element without lever	145369

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Experience the connector live and receive comprehensive product information!

Function



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 800 ¹	Particle board 600 ¹	Beech 900 ¹
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

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

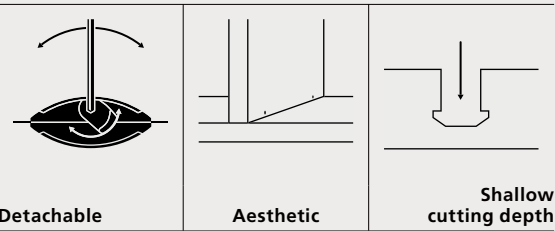
¹ See comment on load limits on **PAGE 195**

Clamex P-10

Detachable connector for materials from 12 mm thickness



Features



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

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

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

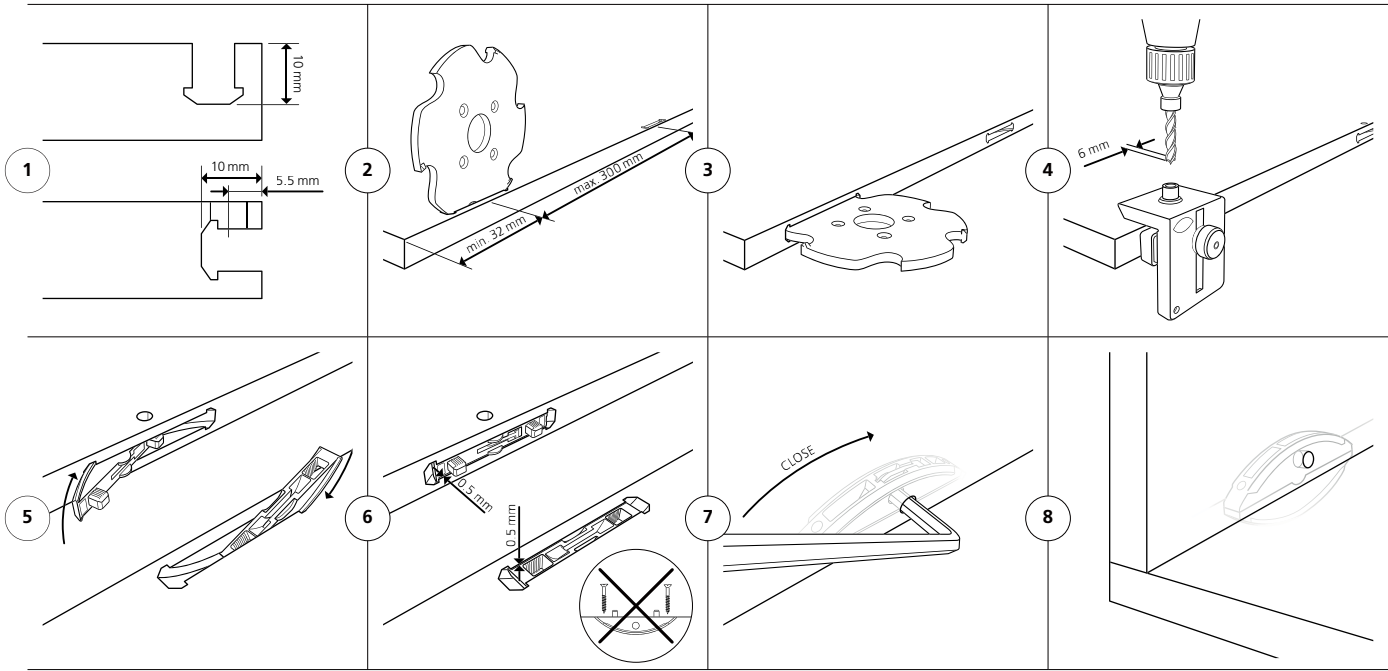
Clamex P-10 is used on mitre joints from 15 mm material thickness and in butt joints from 12 mm.

Articles



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

Function

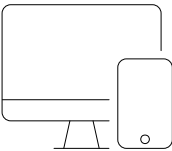


Technical data

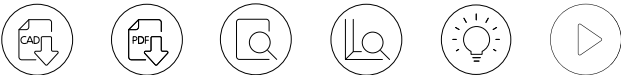
Joining methods	Size	52 × 19 × 9.7 mm		
	Cutter	Ø 100.4 × 7 × Ø 22 mm		
	Material connector	Fiberglass reinforced plastic		
	Material of lever	Zinc die cast		
	Installation tolerance	Long. ± 0.5 mm/radial ± 0.5 mm		
	Tensile strength (N) Up to	MDF 600 ¹	Particle board 600 ¹	Beech 900 ¹
	Material range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

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

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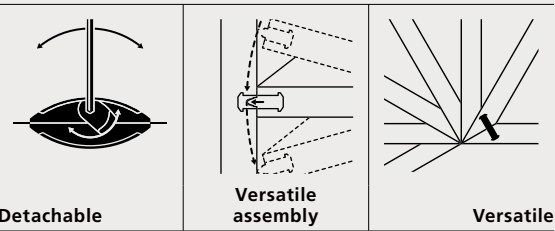
Experience the connector live and receive comprehensive product information!



Clamex P-14/10 Flexus

Detachable furniture connector with flexible positioning pins

Features





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

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

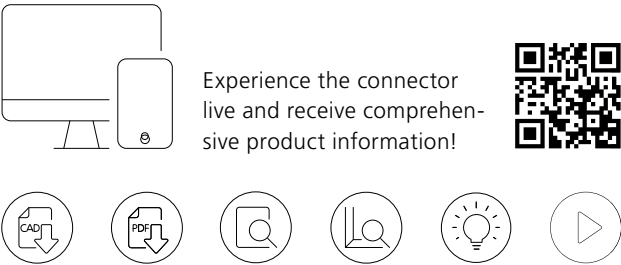
The flexible positioning pins allow work pieces to be installed in an already assembled cabinet, simplifying the assembly sequence.

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

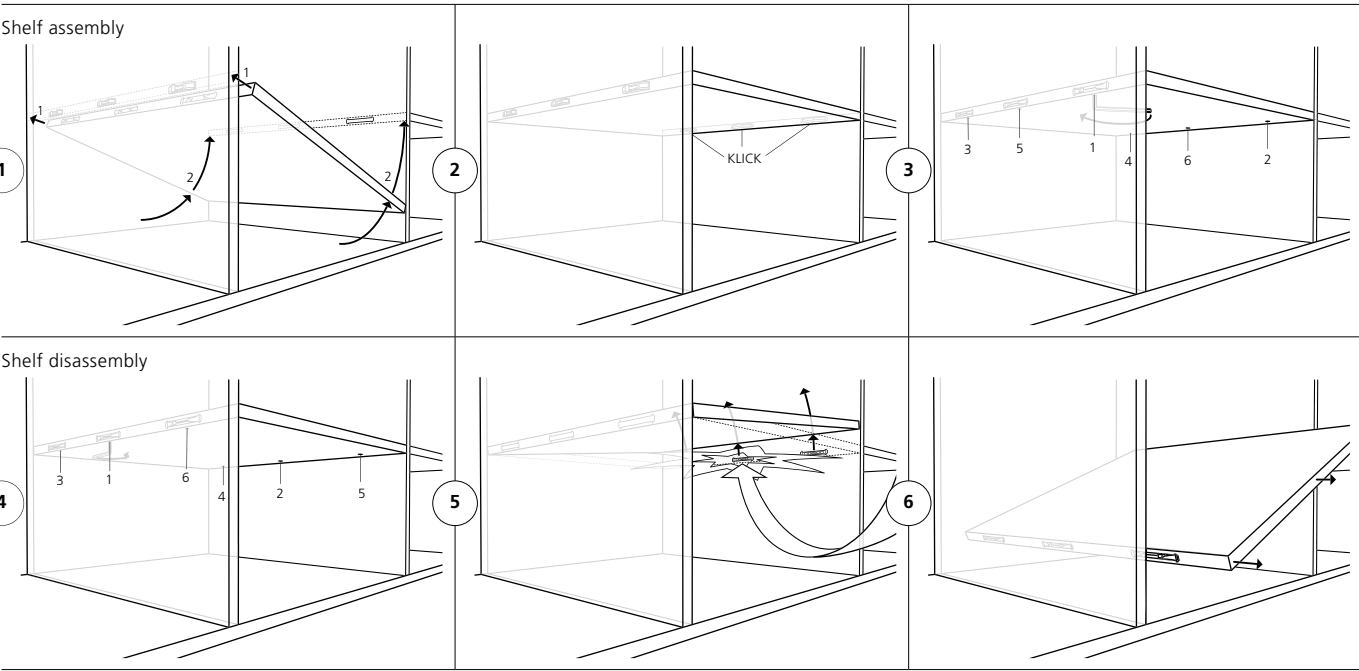
Articles

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

www.lamello



Function



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 720 ¹	Particle board 600 ¹	Beech 810 ¹
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

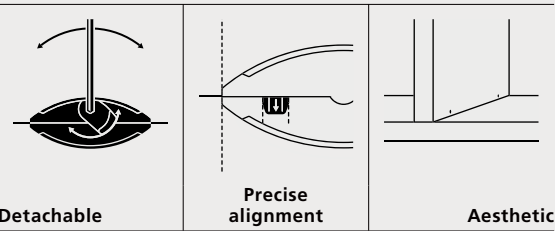
See **PAGE 67** for technical specifications | ¹ See comment on load limits on **PAGE 195**

Clamex P-14 CNC

Detachable furniture connector with precise alignment



Features



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

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

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

Articles

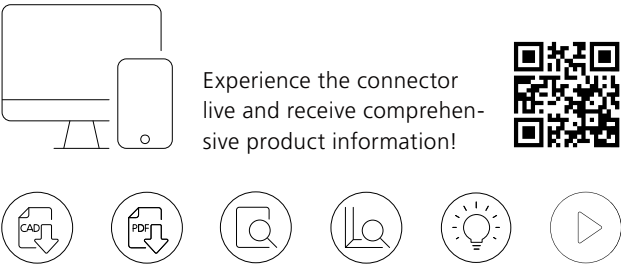
Clamex P-14 CNC Art. No. 145388
2000 pieces element with lever

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

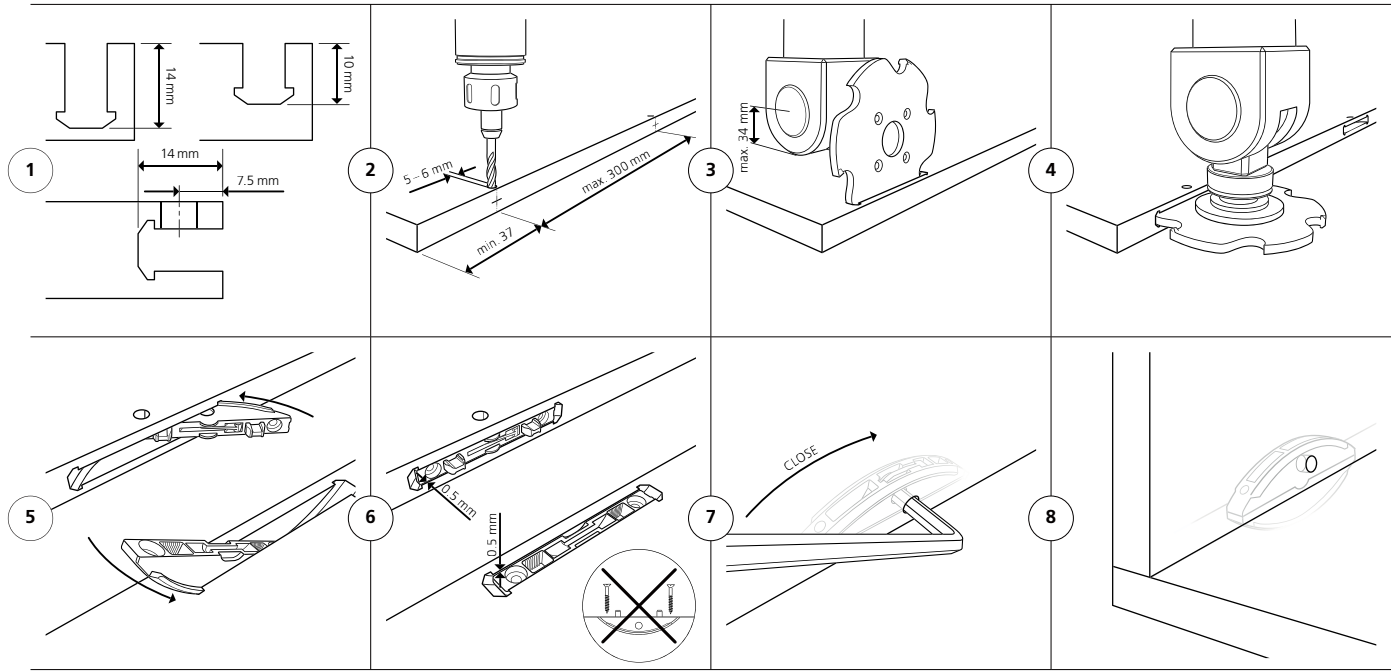
Clamex P-10 Art. No. 145358
2000 pieces element without lever

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

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Function



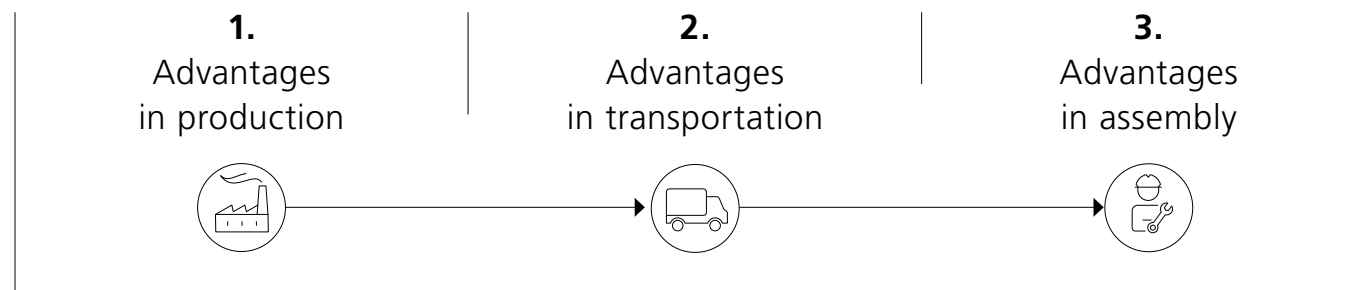
Technical data

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

* See **PAGE 67** for technical specifications

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

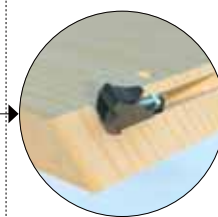
- Simple positioning of workpieces thanks to positioning pins
- Easy assembly with an Allen key
- Aesthetically small, barely visible hole ($\varnothing = 6 \text{ mm}$)
- Open the connection time and time again with the rotating lever
- Lateral tolerance perfect, flush alignment of both workpieces



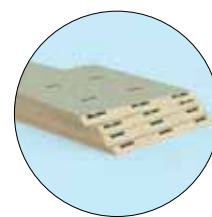
1. Machining with a Zeta P2 or CNC machine



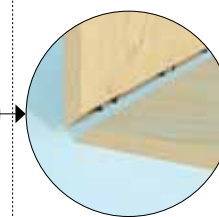
2. Only one tool change



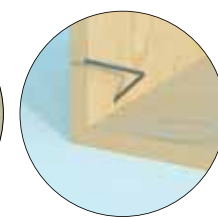
3. Tool-free connector installation



4. Flat pack delivery



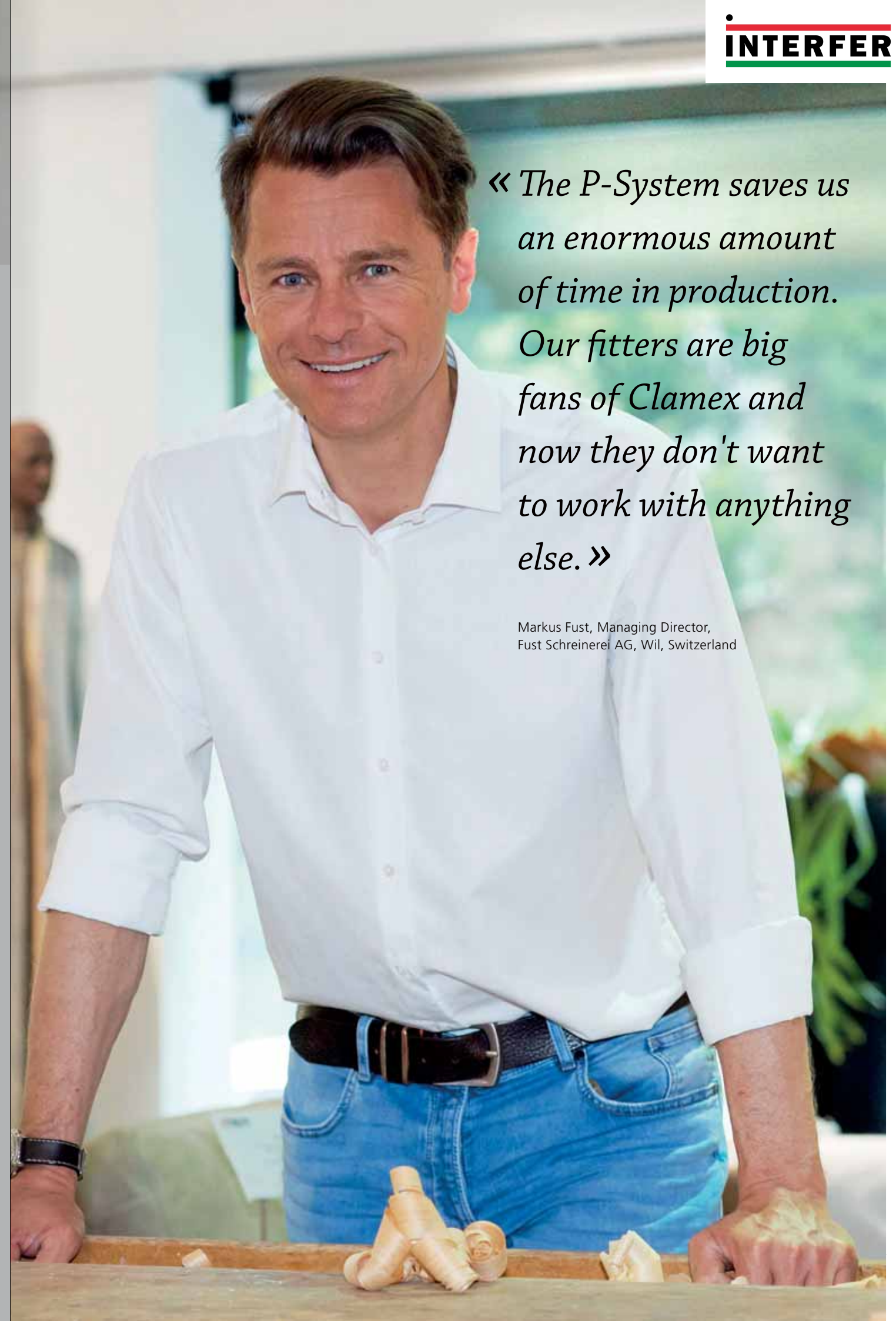
5. Versatile for all angles and joining situations



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 Schreinerei AG, Wil, Switzerland

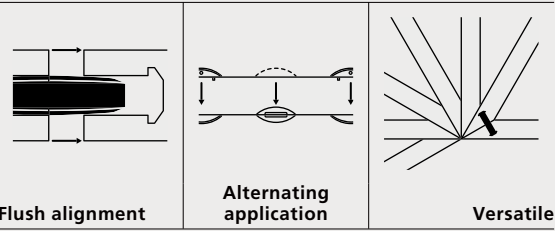


Bisco P

Aligning element, suitable for the P-System groove





Features



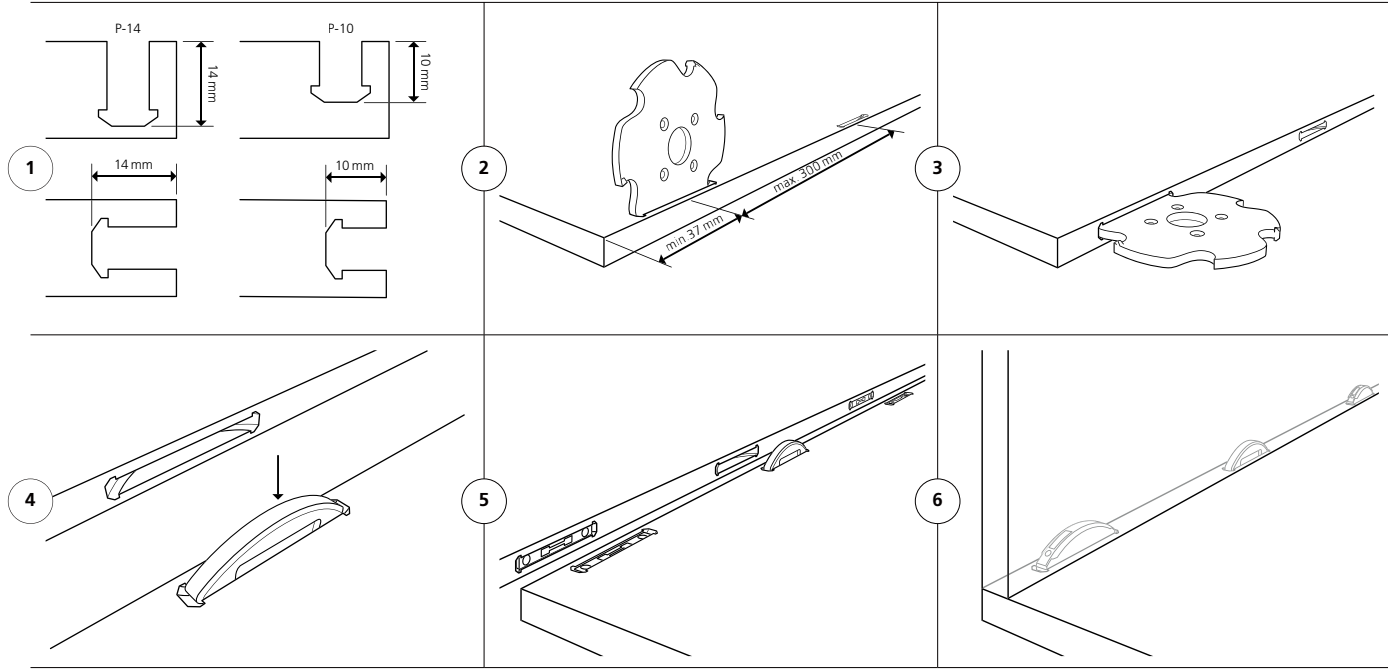
Bisco P is a plastic biscuit which fits into the 7 mm P-System groove and is held in the groove due to its surface structure. Bisco P is used in combination with Clamex or Tenso as a cost-effective alignment element and ensures flushness of the joint. The Bisco can also be used as a dry joint as a test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

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

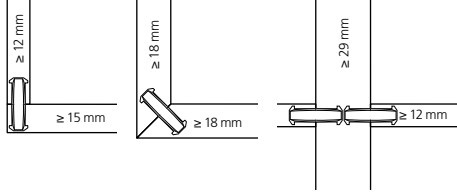
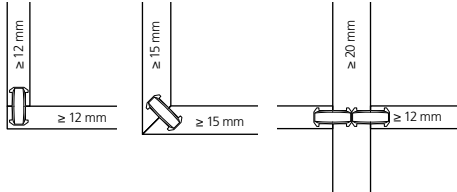
Articles

	
Bisco P-14	Art. No.
80 pieces	145301
300 pieces	145302
1000 pieces	145303
	
Bisco P-10	Art. No.
80 pieces	145304
300 pieces	145305

Function

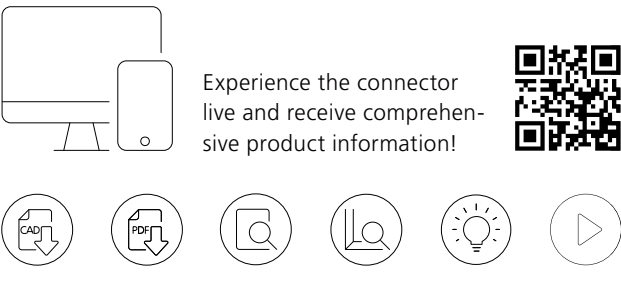


Technical data

Joining methods		Bisco P-14	
		Size	65 × 27 × 7 mm
		Cutter	Ø 100.4 × 7 × Ø 22 mm
		Material connector	Plastic
		Installation tolerance	Long. ± 2 mm
		Tensile strength (N)	Depending on the connector combination*
		Bisco P-10	
		Size	52 × 19 × 7 mm
		Cutter	Ø 100.4 × 7 × Ø 22 mm
		Material connector	Plastic
		Installation tolerance	Long. ± 2 mm
		Tensile strength (N)	Depending on the connector combination*
		Material range	Particle board, MDF, plywood, softwood, hardwood etc.

* See **PAGE 68** for technical specifications

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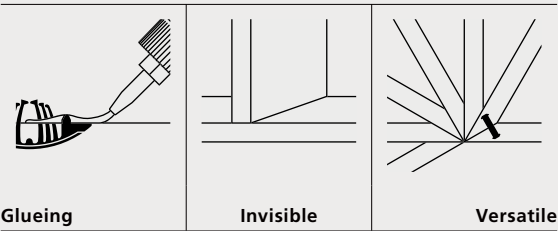


Tenso P-14

Self-clamping connector for glueing materials from 16 mm thickness



Features



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

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

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

Articles

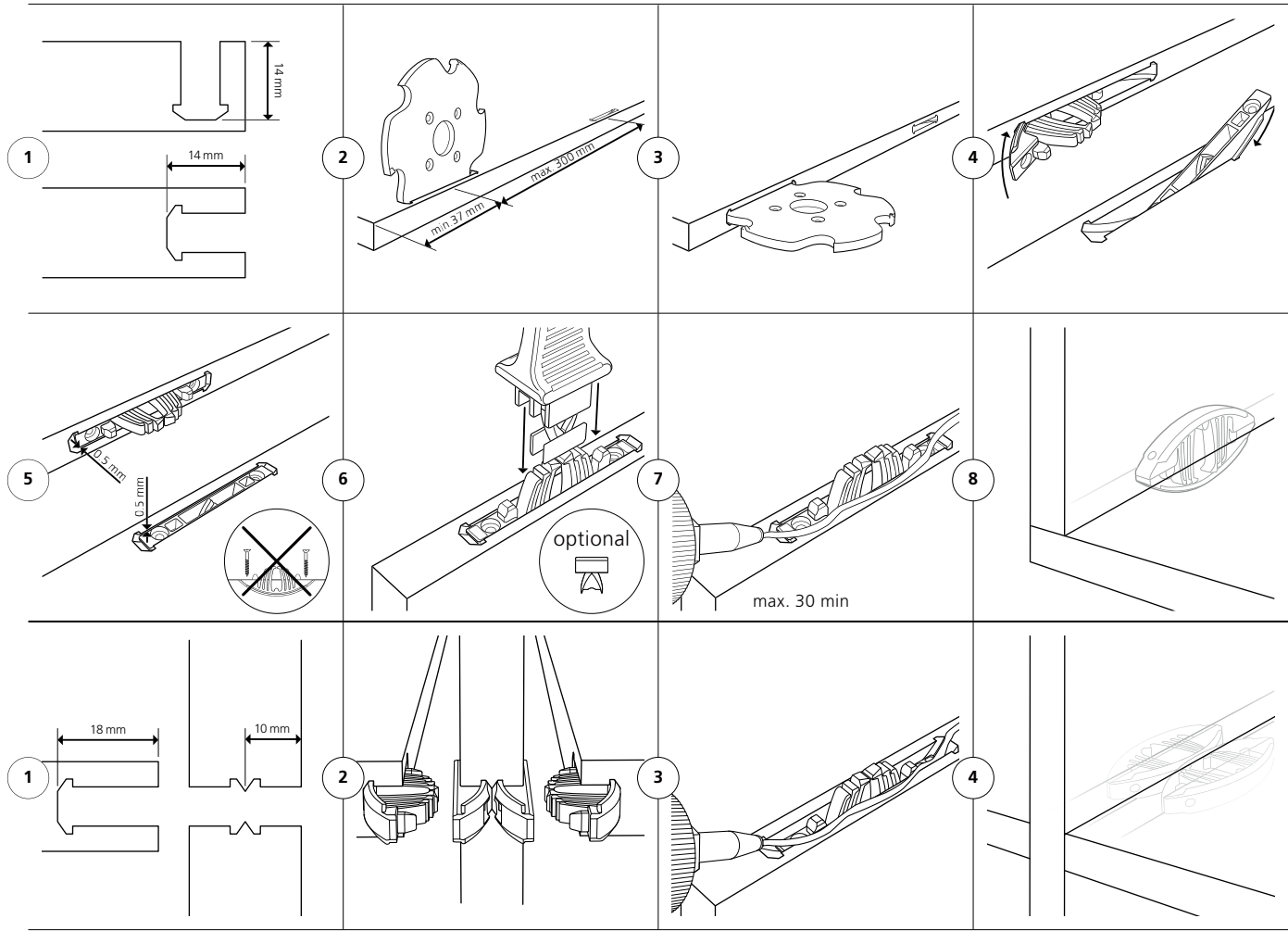
	Art. No.
Tenso P-14	
80 pairs	145415
80 pairs, with preload clip	145415S
300 pairs	145425
300 pairs, with preload clip	145425S
1000 pairs	145435
2000 pieces element with spring	145440
2000 pieces element without spring	145441

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

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Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods	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.

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

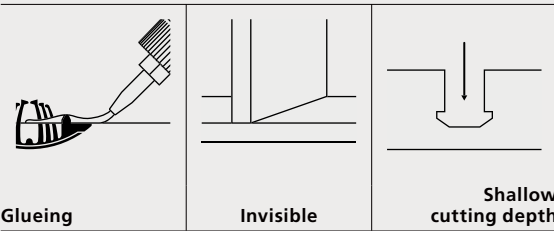
See **PAGE 69** for technical specifications

Tenso P-10

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



Features




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

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

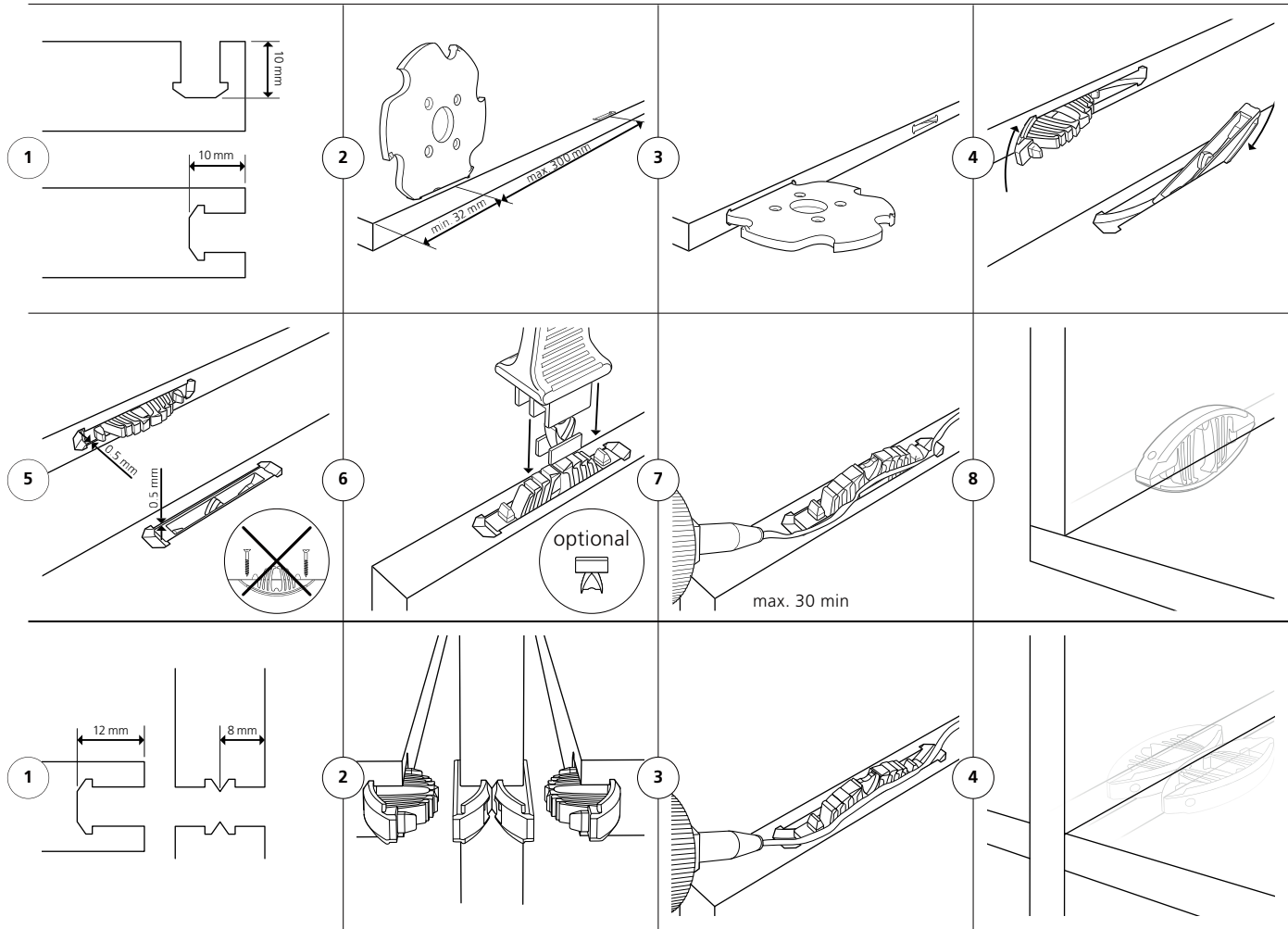
Aesthetic joining is possible without visible connectors, with short assembly times and without having to wait or the glue to dry. Tenso P-10 is used on mitre joints from 15 mm material thickness and in butt joints from 12 mm.

Articles

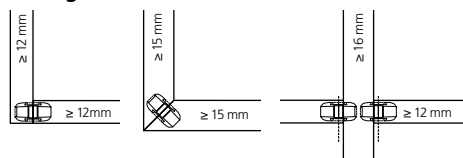
	Art. No.
Tenso P-10	
80 pairs, with preload clip	145418
300 pairs, with preload clip	145428
1000 pairs, with preload clip	145438
2000 pieces element with spring	145442
2000 Spieces element without spring	145443

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

Function



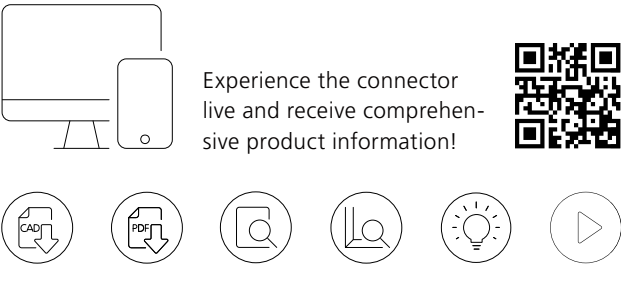
Technical data

Joining methods	Size	52 x 19 x 9.7 mm
	Cutter	Ø 100.4 x 7 x 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.

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

See **PAGE 69** for technical specifications

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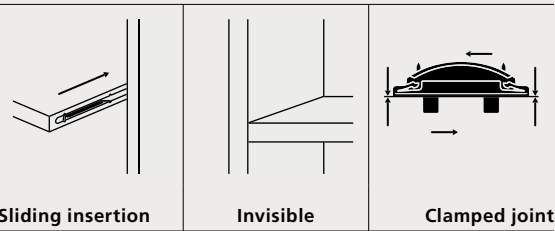


Divario P-18

Self-clamping, invisible connector for slide insertion



Features





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.

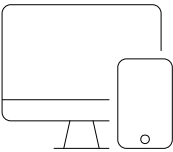
Divario P-18 is used for joining shelves to divisions from 18 mm panel thickness or in butt joints from 12 mm.

Articles


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







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

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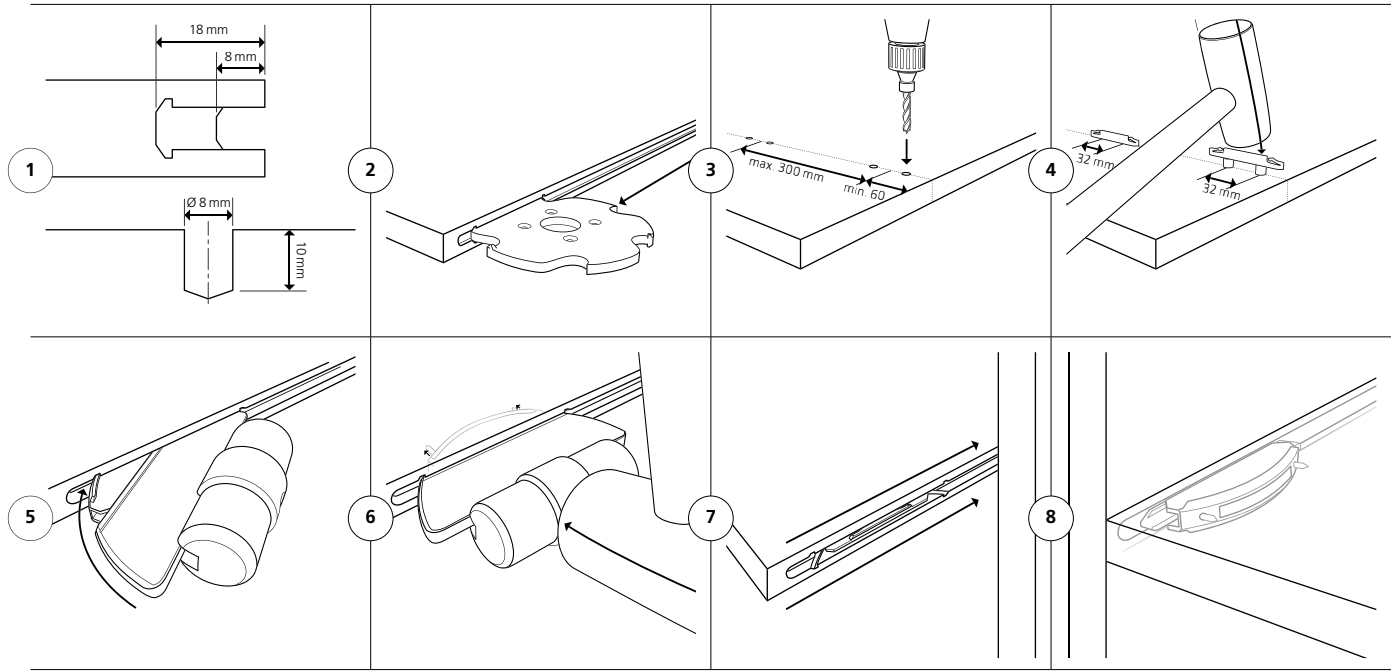


Experience the connector live and receive comprehensive product information!



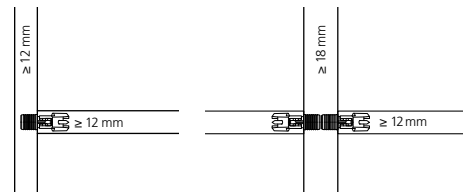


Function



Technical data

Joining methods



Element with P-System groove	65 × 16 × 9.7 mm																									
Element with drill holes	Ø 8 × 10 mm, distance 32 mm																									
Cutter	Ø 100.4 × 7 × Ø 22 mm																									
Material connector	Fiberglass reinforced plastic																									
Installation tolerance	Long. ± 1 mm/radial ± 0 mm																									
Load limits per connector (N) Up to	<table><tr><td>(mm)</td><td>19</td><td>22</td><td>25</td><td>30</td></tr><tr><td>MDF</td><td>600¹</td><td>700¹</td><td>800¹</td><td>1000¹</td></tr><tr><td>Particle board</td><td>500¹</td><td>600¹</td><td>700¹</td><td>1000¹</td></tr><tr><td>Beech</td><td>1700¹</td><td>2000¹</td><td>2000¹</td><td>2000¹</td></tr><tr><td>Spruce</td><td>800¹</td><td>900¹</td><td>1300¹</td><td>1400¹</td></tr></table>	(mm)	19	22	25	30	MDF	600 ¹	700 ¹	800 ¹	1000 ¹	Particle board	500 ¹	600 ¹	700 ¹	1000 ¹	Beech	1700 ¹	2000 ¹	2000 ¹	2000 ¹	Spruce	800 ¹	900 ¹	1300 ¹	1400 ¹
(mm)	19	22	25	30																						
MDF	600 ¹	700 ¹	800 ¹	1000 ¹																						
Particle board	500 ¹	600 ¹	700 ¹	1000 ¹																						
Beech	1700 ¹	2000 ¹	2000 ¹	2000 ¹																						
Spruce	800 ¹	900 ¹	1300 ¹	1400 ¹																						
Tensile strength (N)	All materials 600 ¹																									
Material range	Particle board, MDF, plywood, softwood, hardwood etc.																									

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

High performance without cable

LiHD battery pack

INTERFER

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.»



Powerful!
Battery alliance with
over 30 brands

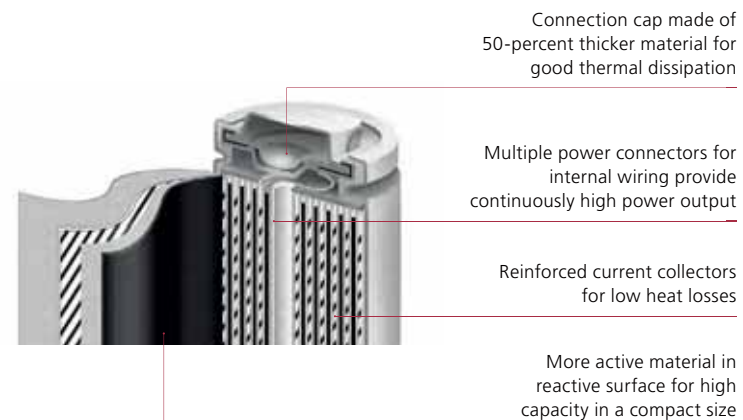
www.cordless-alliance-system.com



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

A unique interplay of:

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



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

18 V LiHD 4.0 Ah

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



18 V LiHD 5.5 Ah

- Available as an option for even longer working periods



More flexible in the workshop

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

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

Large workpieces



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

Exclusive individual pieces



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

Adapting furniture



Mobile working on the construction site

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

Fitted panels



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

Roof window casing



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

Terrace floors




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

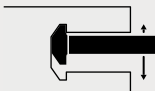
Zeta P2 cordless

The powerful P-System biscuit joiner for cordless freedom


Features



Fast connection




Automatic vertical movement



Cordless freedom

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

Articles



Zeta P2 cordless biscuit joiner, DP (diamond) Art. No.

In systainer, incl. 2 batteries and charger	101801SD
In systainer, without batteries, without charger	101800SD

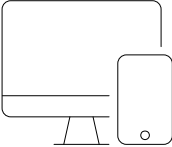


Kit contains


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







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

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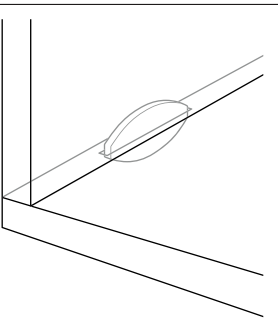
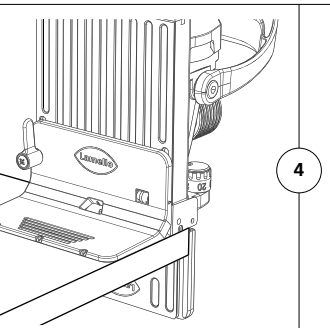
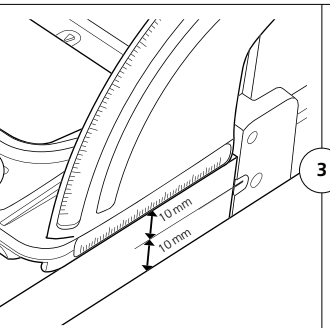
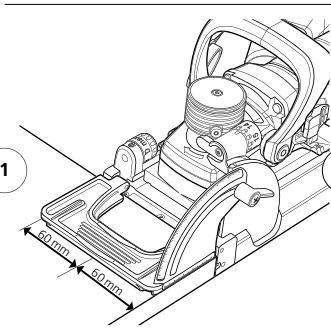


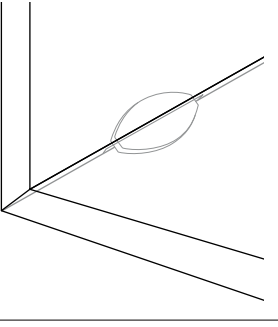
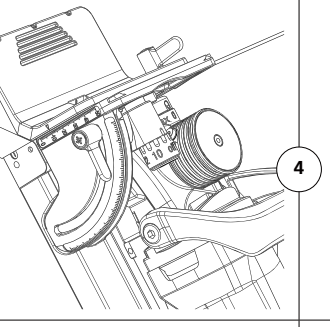
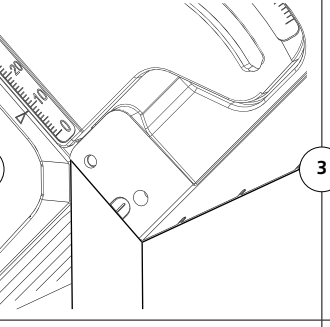
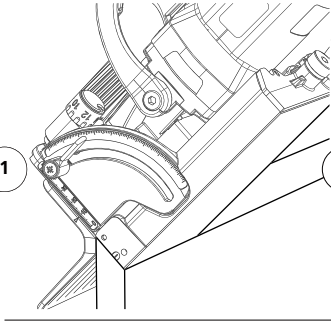
Experience Zeta P2 cordless live and receive comprehensive product information!

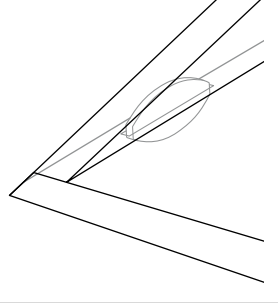
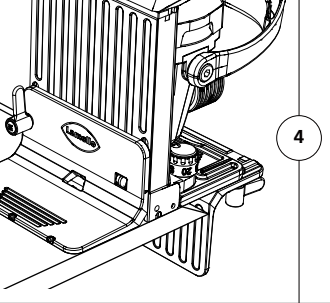
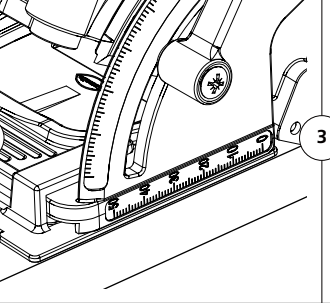
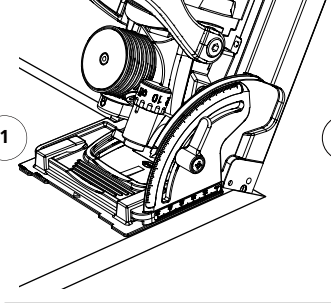




Function







Technical data

Battery voltage	18 V	Groove width	7/10 mm
Speed	9 000 min ⁻¹	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 conection	Automatic vertical movement	Numerous machining options

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

Articles

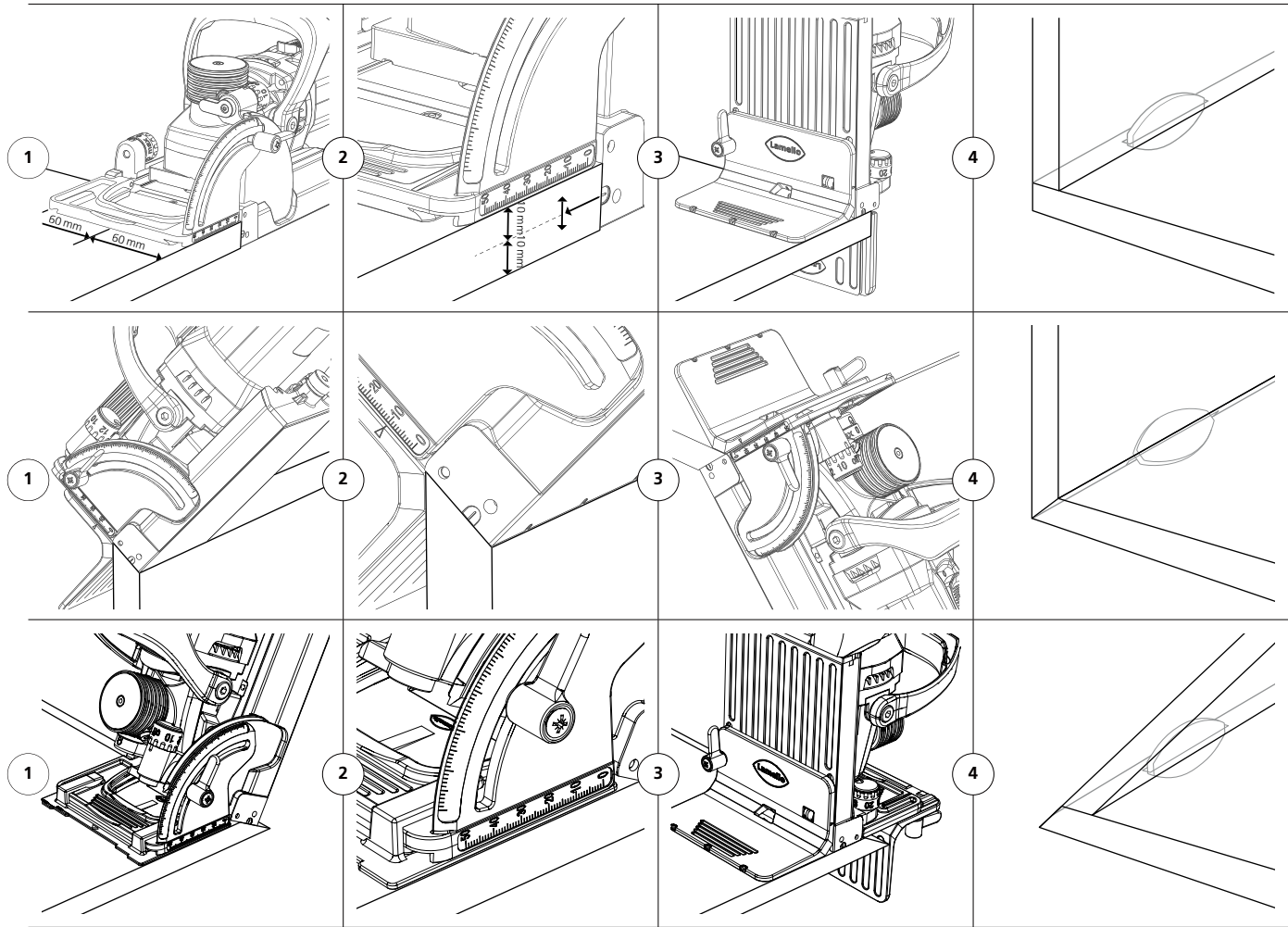
	Art. No.
Zeta P2 With P-System groove cutter HW (carbide) in Systainer	101403S
With P-System groove cutter DP (diamond) in Systainer	101403SD

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

www.lamello

Experience Zeta P2 live
and receive comprehen-
sive product information!

Function



Technical data

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

Accessories

Zeta P2 cordless and Zeta P2

Accessories



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



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



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



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



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



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

Batteries



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



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



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

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

Connected in seconds



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

Advantage

... with Clamex P – detachable



1

Cut

2

Drill

3

Insert

4

Connect – finished!

Time for one connector pair	
1. Cut	25
2. Drill	15
3. Insert	5
4. Connect – finished!	5

Ready in 50 s

... with Tenso P – glued



1

Cut

2

Insert

3

Apply glue

4

Connect – finished!

Time for one connector pair	
1. Cut	25
2. Insert	5
3. Apply glue	5
4. Connect – finished!	5

Ready in 40 s

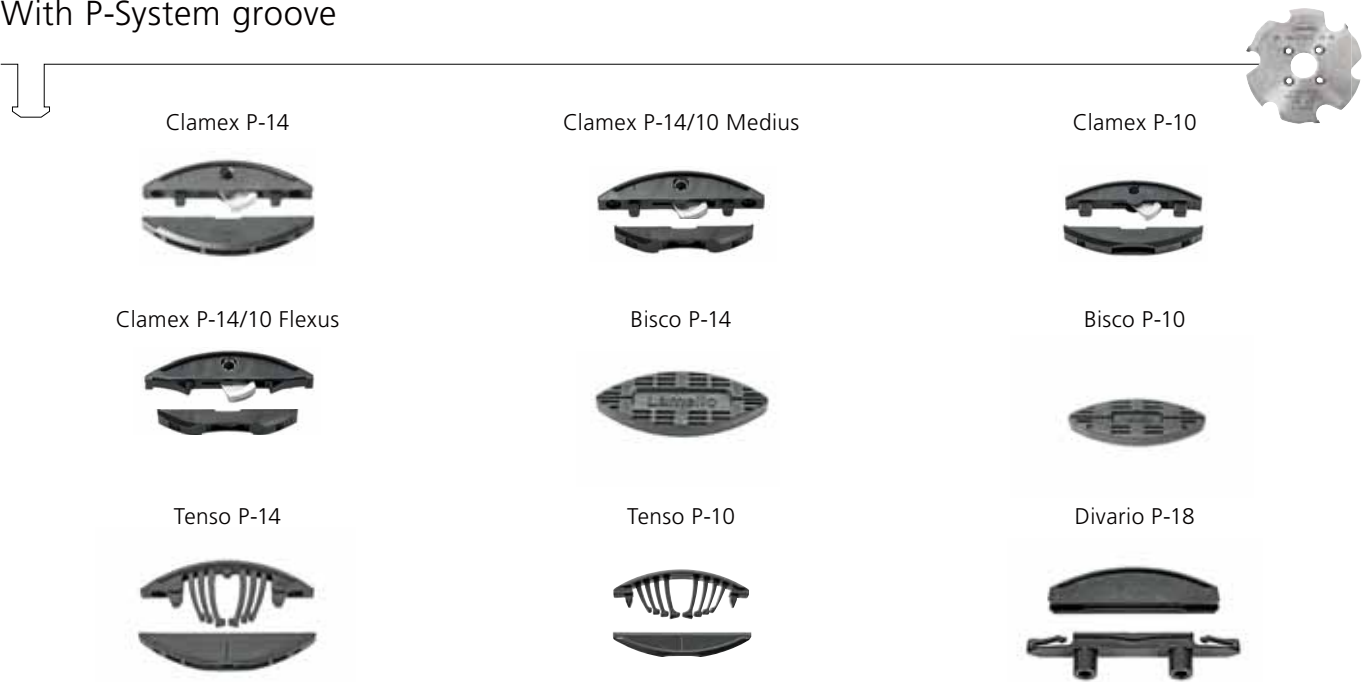


Versatile use with many different connecting elements.

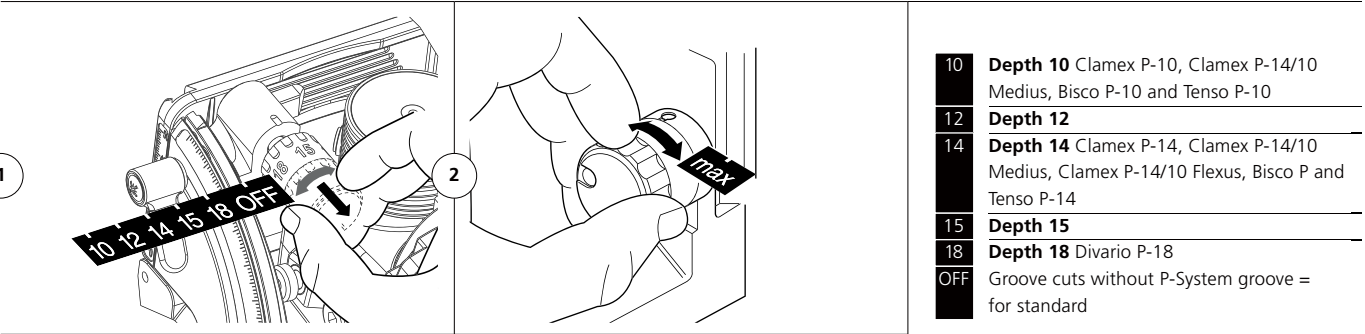
With the Zeta P2, you can quickly and easily connect parts with a range of angles and joining situations. Suitable for individual pieces of furniture as well as prototypes and line production.



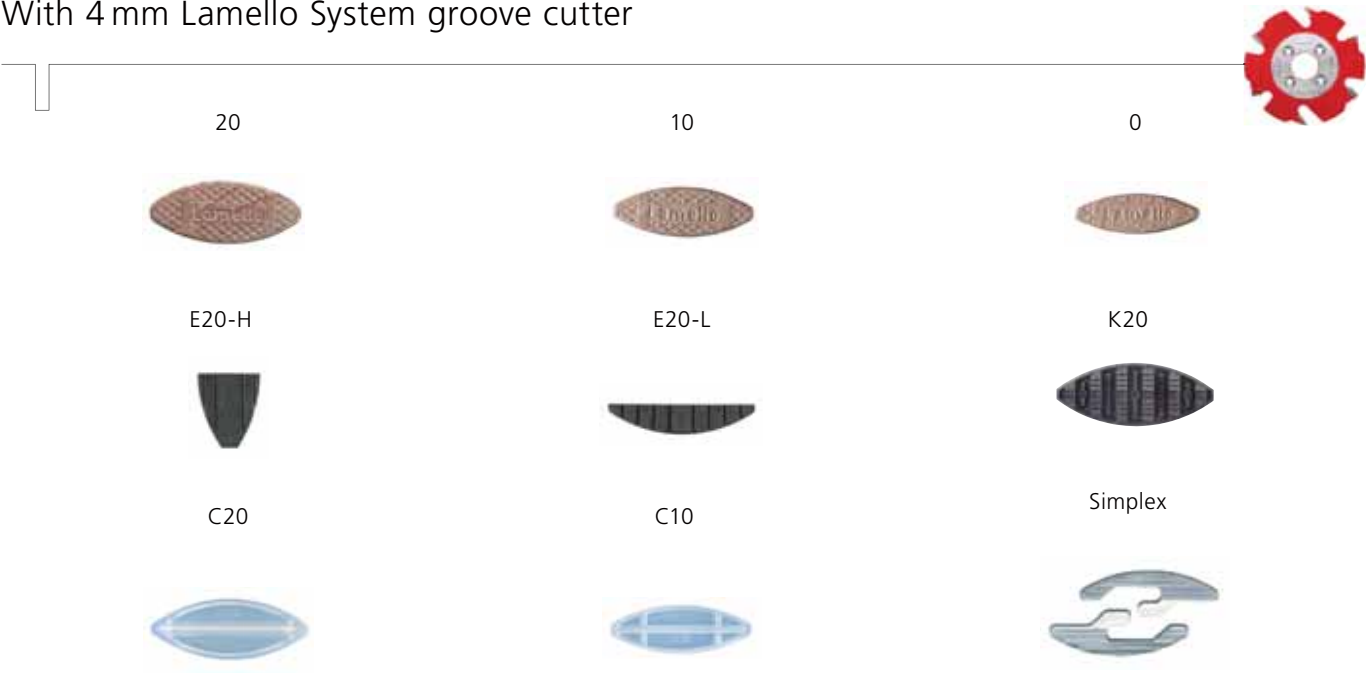
With P-System groove



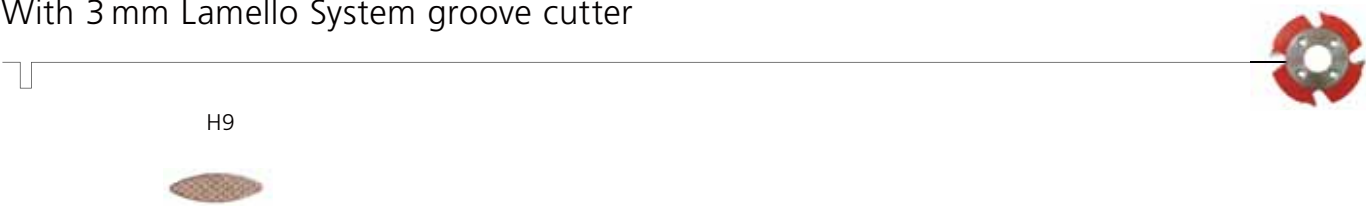
P-System depth adjustment



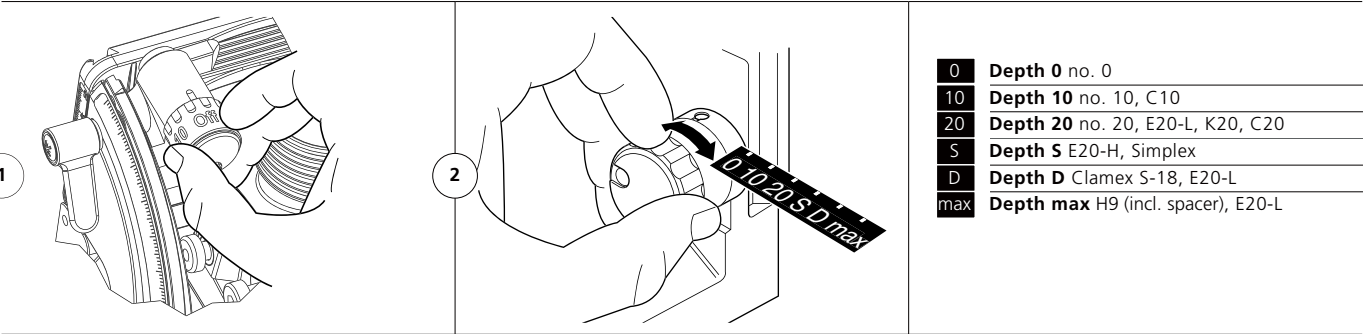
With 4 mm Lamello System groove cutter



With 3 mm Lamello System groove cutter



Lamello depth adjustment system

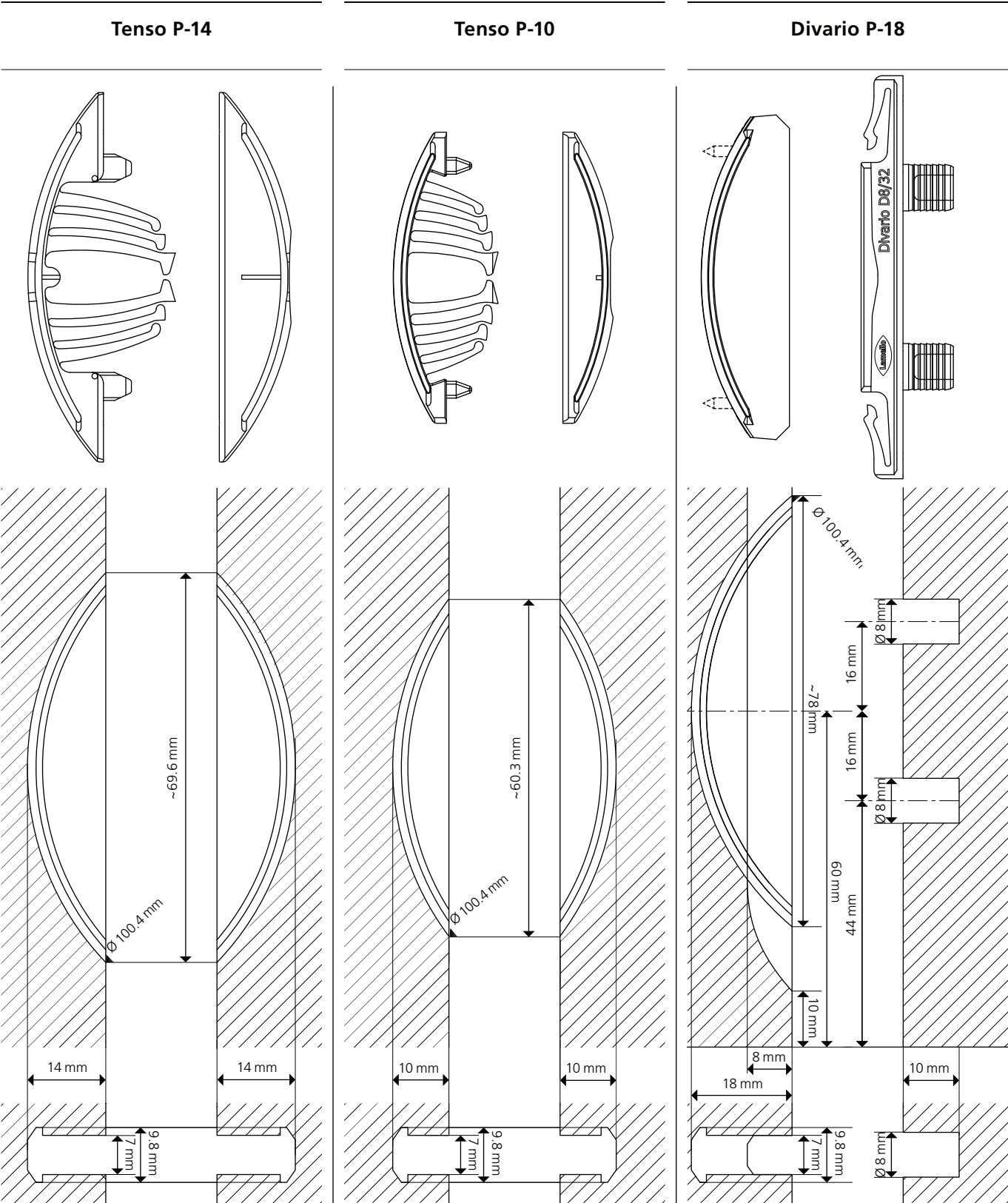
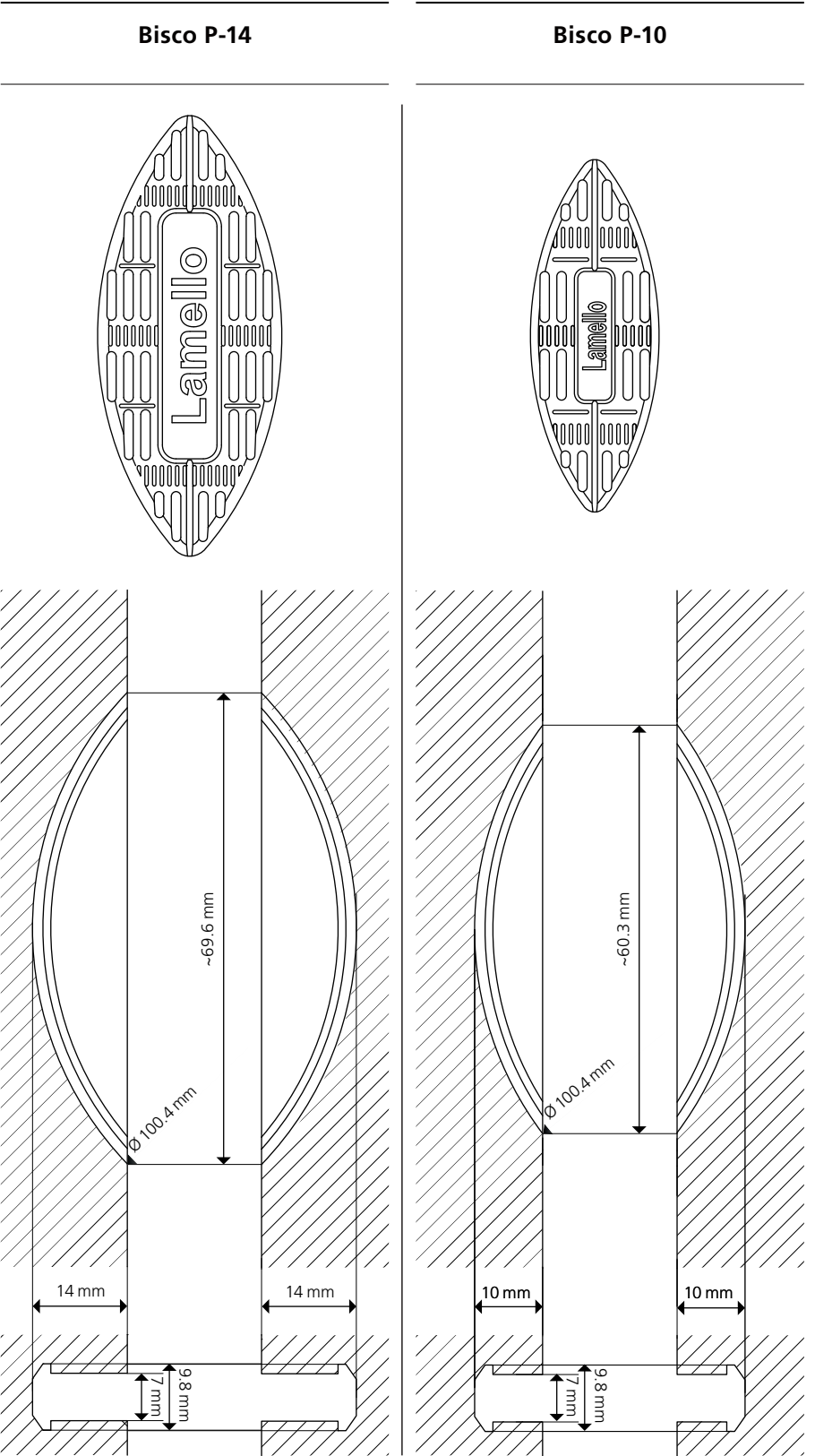


Clamex P-14		Clamex P-10		Clamex P-14/10 Medius	
Tensile strength (N)	Up to	Tensile strength (N)		Tensile strength (N)	
MDF	900 ¹	MDF		MDF	
Particle board	800 ¹	Particle board		Particle board	
Beech	1000 ¹	Beech		Beech	

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	
Tensile strength (N)	Up to	Tensile strength (N)		Tensile strength (N)		Tensile strength (N)		Tensile strength (N)	
MDF	720 ¹	MDF		MDF		MDF		MDF	
Particle board	600 ¹	Particle board		Particle board		Particle board		Particle board	
Beech	810 ¹	Beech		Beech		Beech		Beech	

Technical information

Overview of connectors + grooves (scale 1:1)



Tensile strength (N)		Load limits per connector (N)*				
Depending on the adhesive		(mm)	19	22	25	30
		MDF	600 ¹	700 ¹	800 ¹	1000 ¹
		Particle board	500 ¹	600 ¹	700 ¹	1000 ¹
		Beech	1700 ¹	2000 ¹	2000 ¹	2000 ¹
		Spruce	800 ¹	900 ¹	1300 ¹	1400 ¹
Tensile strength (N)						
All materials		600 ¹				

Accessories / Spare Parts

P-System



P-System



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



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

Clamex P



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



Allen key	Art. No.
4 mm, 75 x 55 mm	271945
4 mm, 120 x 50 mm	271945A



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



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



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



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



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



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

Accessories / Spare Parts

P-System



Combination CNC and Zeta P2



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



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

Tenso P



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



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

Divario P



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



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



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



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

Zeta P2



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



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



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



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



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

Batteries



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



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

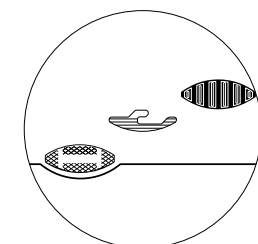


	Art. No.
Battery charger ASC 55	123100

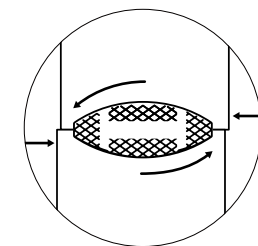
Lamello System

The original for efficient, intuitive and precise joints

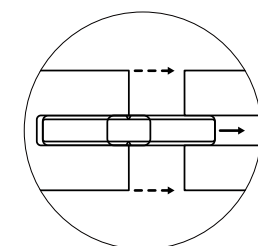
Features



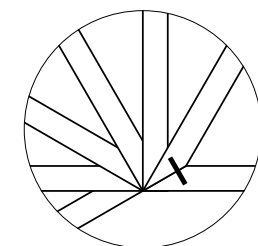
Versatile applications
One cutting principle for many different joining elements



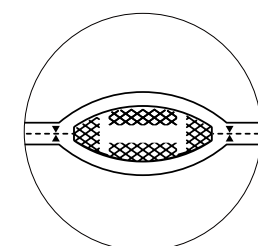
Lateral tolerance
The generous sliding tolerance allows for perfect flush alignment of workpieces



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



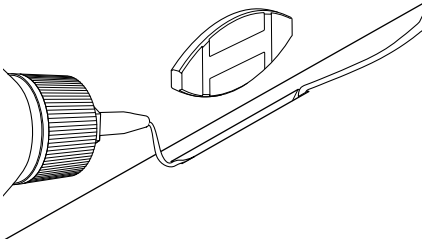
Versatile
The minimal element depth allows for mitres of 22.5–180 degrees as well as surface and corner joints and divisions



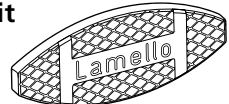
Symmetrical
The identical groove in both workpieces leads to an increase in efficiency in production

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

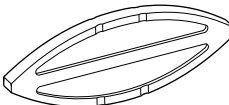
Glueing



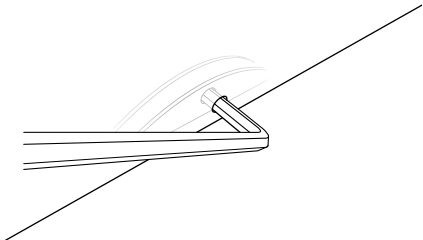
Original wood biscuit



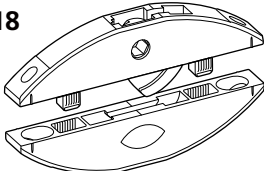
C20




Detachable



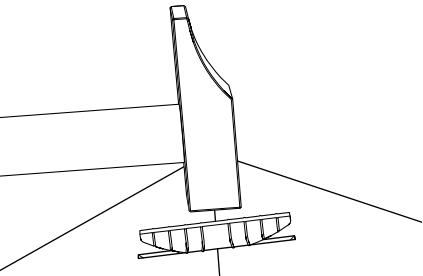
Clamex S-18



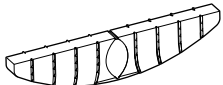
Simplex



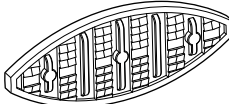
Inserted



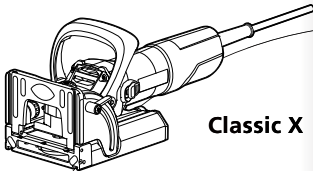
E20



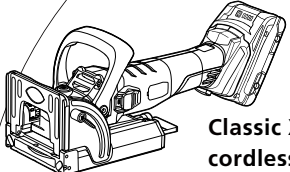
K20



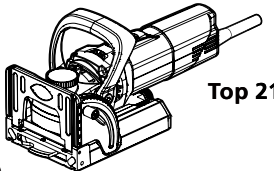
Classic X



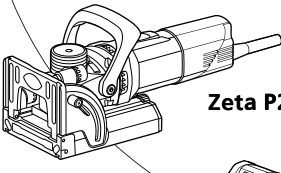
Classic X cordless



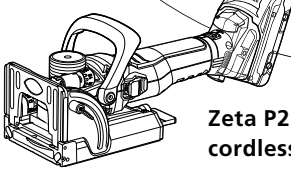
Top 21



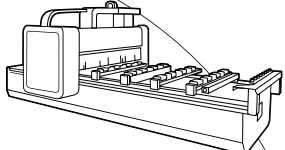
Zeta P2



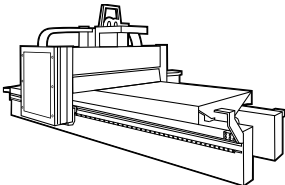
Zeta P2 cordless



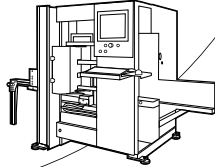
CNC processing centres with consoles

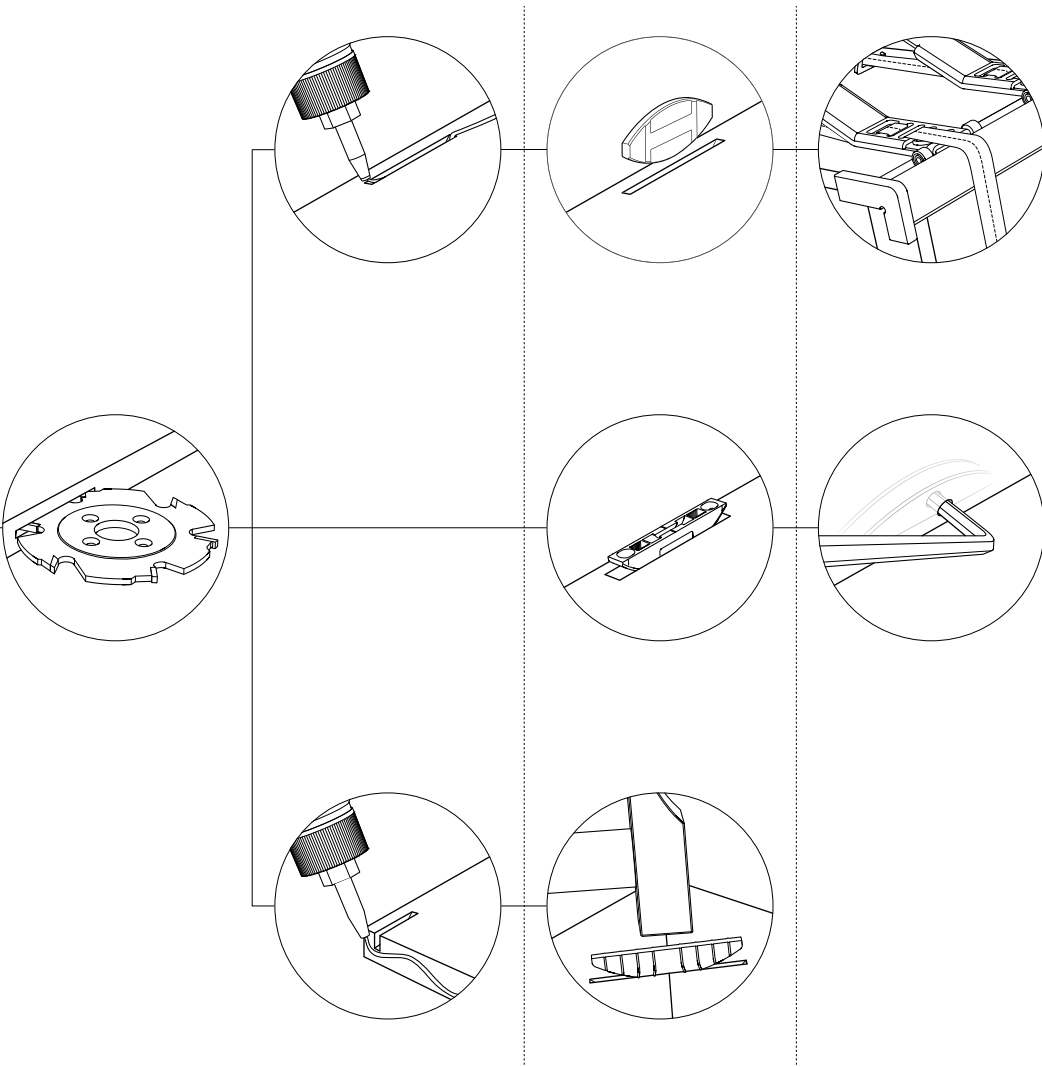


CNC processing centres with nesting technology



CNC processing centres vertical





1 Cut

2 Apply glue

3 Insert the connector

4 Clamp

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

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

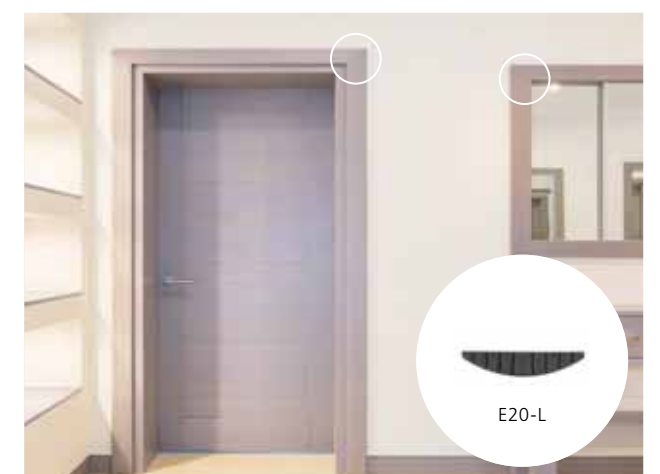
Lamello System

Applications

Furniture manufacturing



Interior fitting

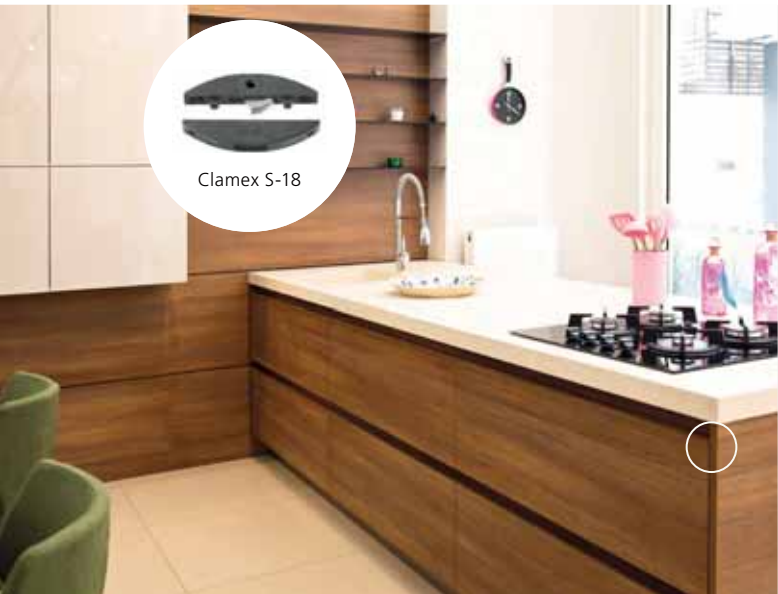


Lamello System

Applications



Kitchen manufacturing



Commercial joinery



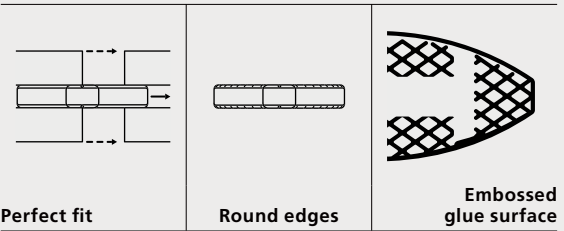
Shop fitting

Original wood biscuit

The original wood biscuit that always fits




Features

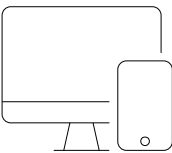


The original wood biscuit is the proven solution for wood joints and the original from the inventor of the system. The original wood biscuit guarantees quality with its dimensional accuracy, optimal glue distribution, dimensional stability as well as the sustainable cultivation of the beech wood. The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

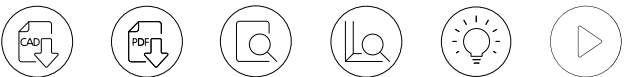
Articles

	Art. No.
Original wood biscuit 20	144020
1000 pieces	
	Art. No.
Original wood biscuit 10	144010
1000 pieces	
	Art. No.
Original wood biscuit 0	144000
1000 pieces	
	Art. No.
Original wood biscuit H9*	144009
1000 pieces	
Assorted	Art. No.
500/250/250 pieces (20/10/0)	144030

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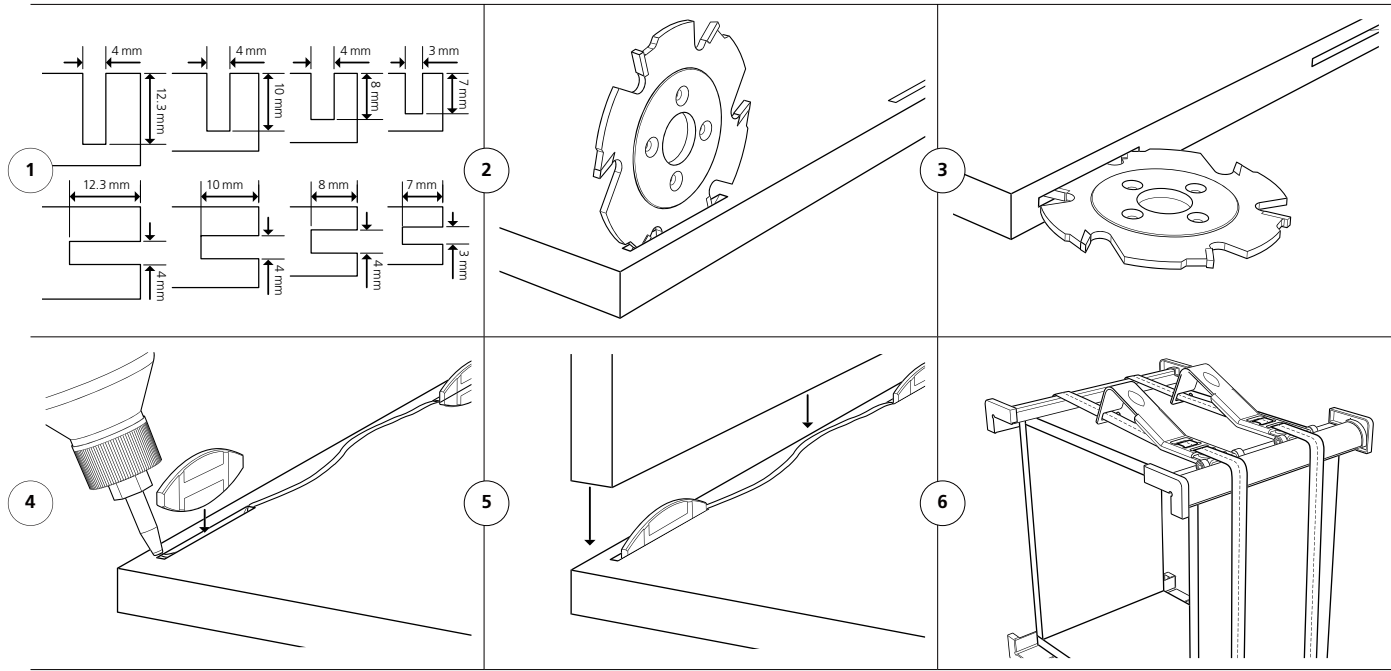


Experience the connector live and receive comprehensive product information!

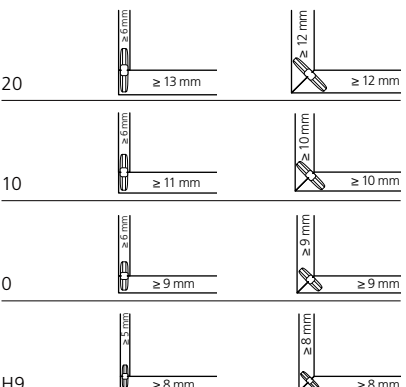


* Installation of wood biscuits with cutter Ø 100 x 4 x Ø 22 mm (standard cutter). Installation of H9 wood biscuits with cutter Ø 78 x 3 x Ø 22 mm (Art. No. 132009)

Function



Technical data

Joining methods	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.

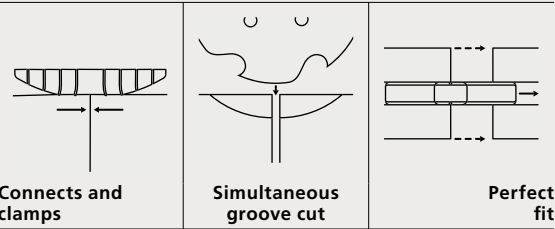
See **PAGE 110–111** for technical specifications

E20

The self-clamping element



Features



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

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

Articles

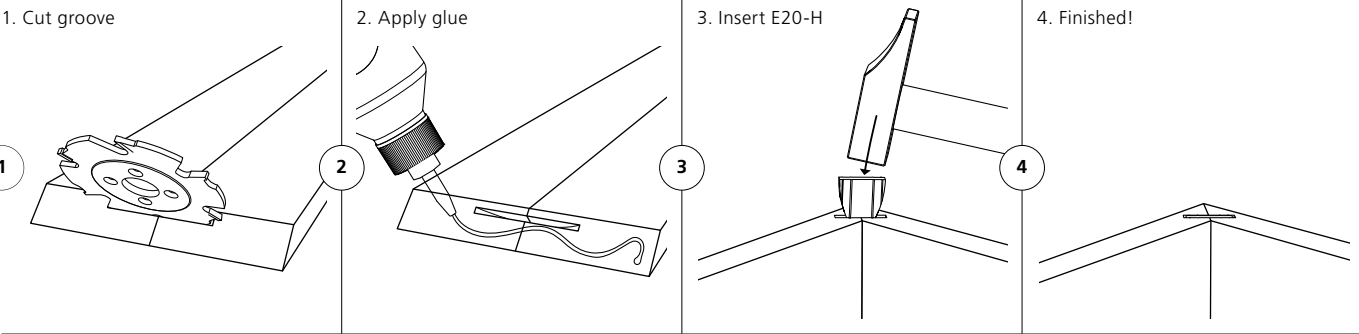
E20-H	Art. No.
80 pieces	145021
400 pieces	145026
1200 pieces	145028

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

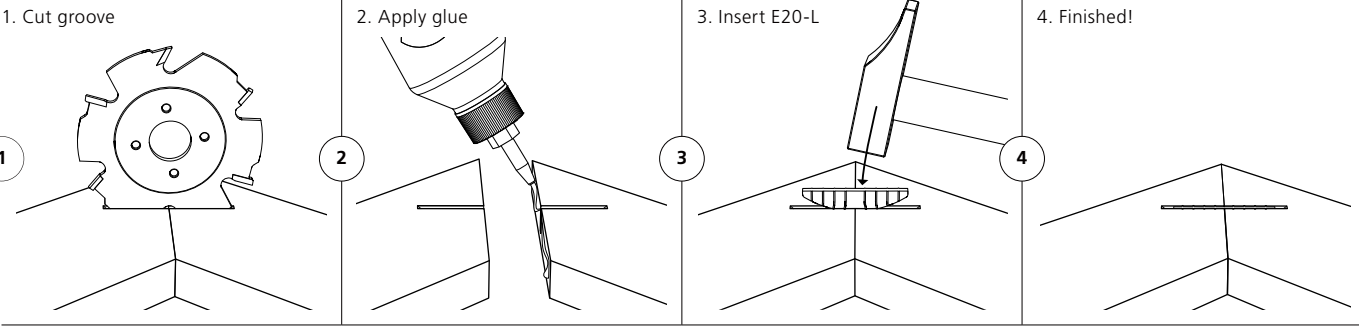
Assorted	Art. No.
40/40 pieces (E20-H/E20-L)	145020

Function

E20-H



E20-L

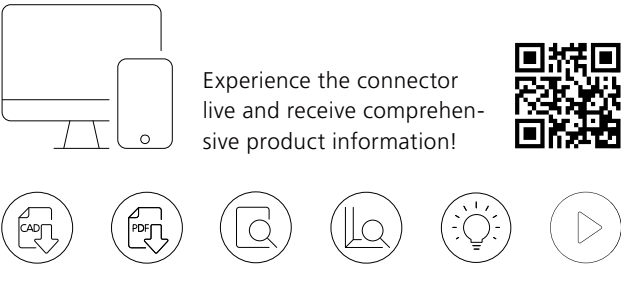


Technical data

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

See **PAGE 113** for technical specifications

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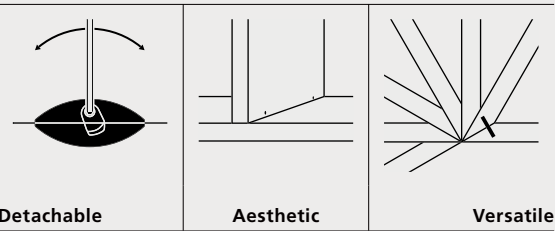


Clamex S-18

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



Features



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

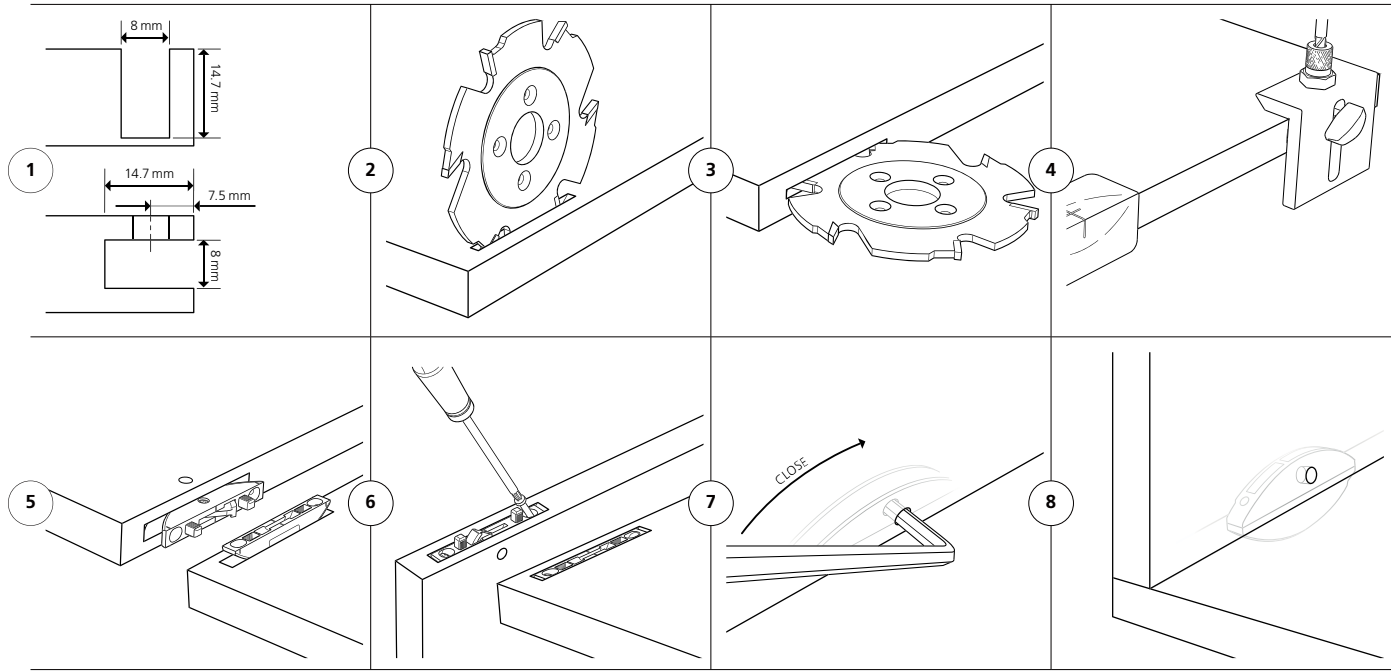
Clamex S-18 can be used with any Lamello biscuit joiner, allows aesthetic joints at all angles and is ideal for permanently joined or detachable mitres.

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

Articles

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

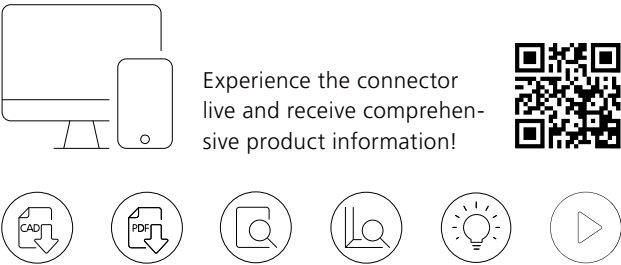
Function



Technical data

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

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

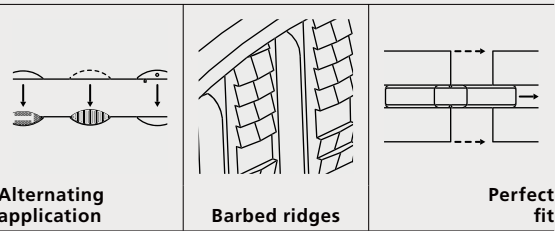
See **PAGE 112** for technical specifications | ¹ See comment on load limits on **PAGE 195**

K20

The clamping element, which holds the workpiece in position



Features




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

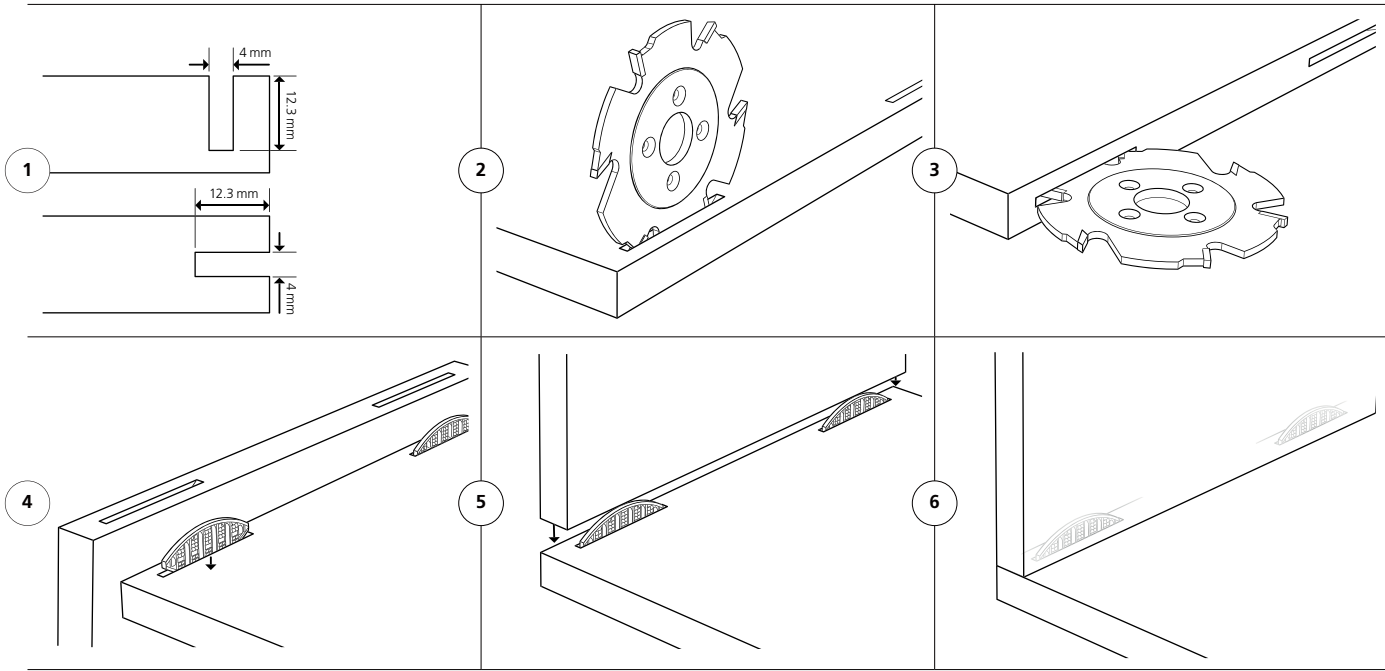
The clamping biscuit is ideal for difficult to clamp workpieces such as fillers or covers and is able to hold workpieces in the correct position until the adhesive is dry.

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

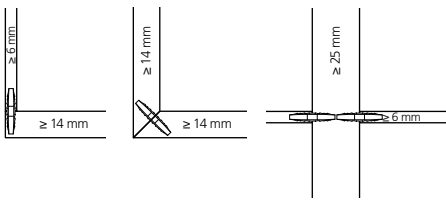
Articles

	Art. No.
K20	
80 pieces	145001
250 pieces	145000

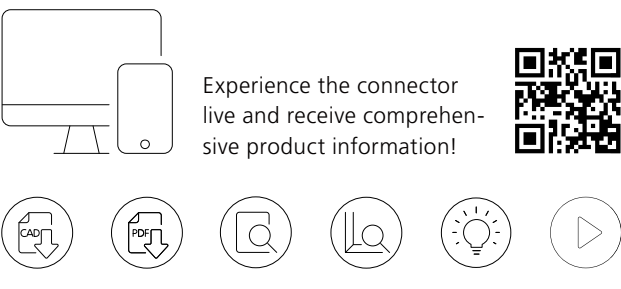
Function



Technical data

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

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C20/C10

The transparent element



Features

Transparent	No swelling	Perfect fit

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

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

Articles

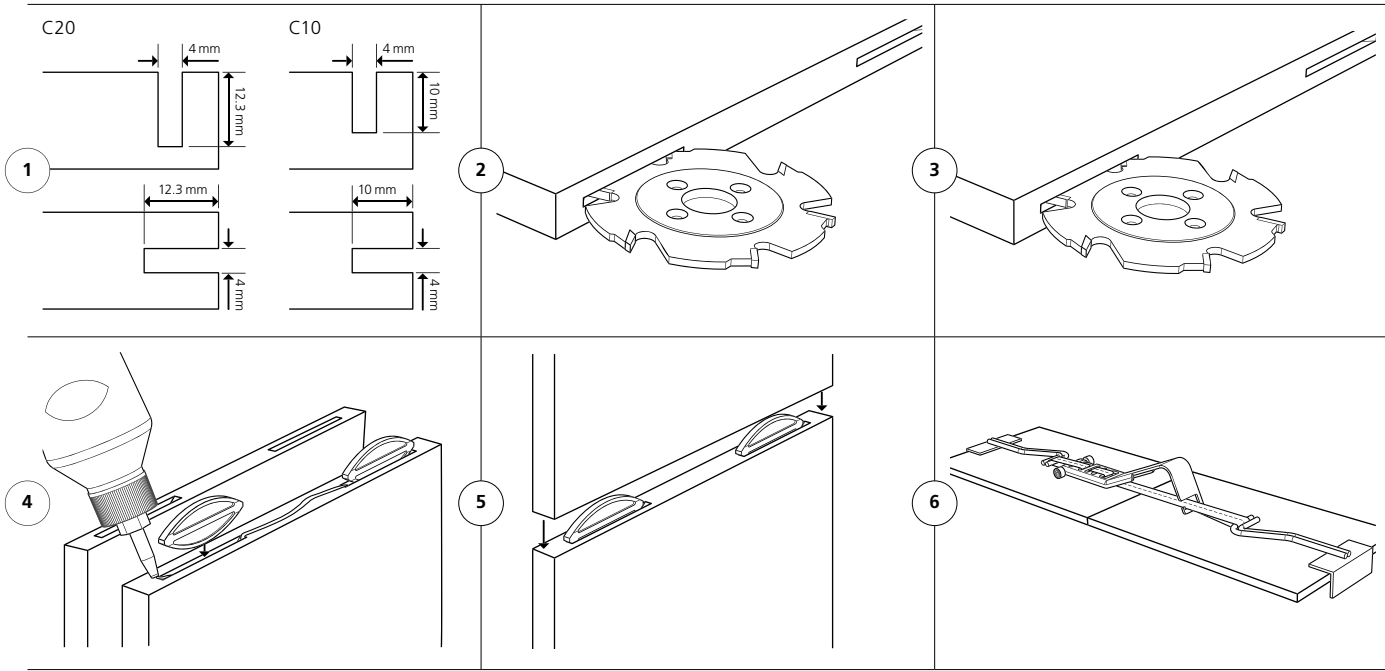
C20	Art. No.
250 pieces	145010



C10	Art. No.
300 pieces	145012



Function



Technical data

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

See **PAGE 111** for technical specifications

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Experience the connector live and receive comprehensive product information!

Simplex

Detachable slide-in connector



Features

Detachable	Symmetrical	Perfect fit

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

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

Articles

	Art. No.
Simplex	
50 pairs	166101
100 pairs	166100

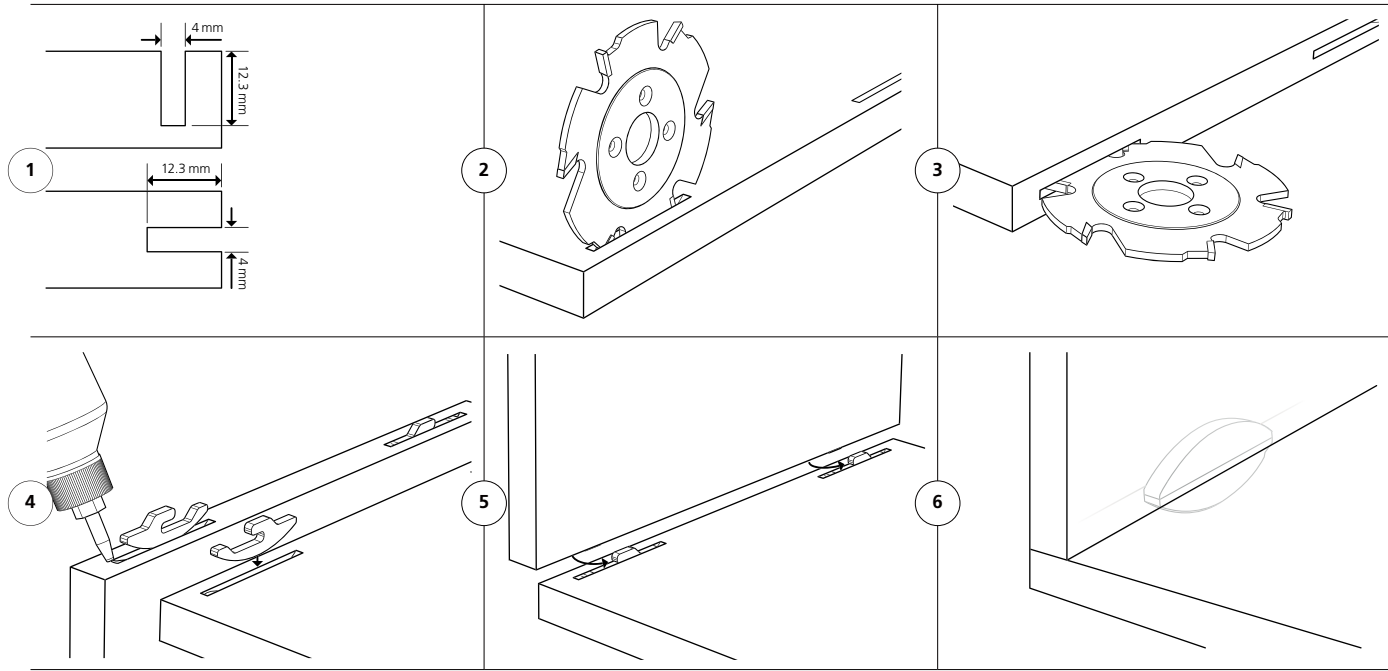
Accessories

	Art. No.
Simplex inserting tool	
For accurate positioning of Simplex	166110

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Function



Technical data

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

See **PAGE 112** for technical specifications

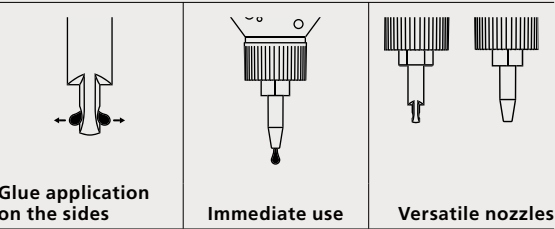
95

Minicol

The all purpose glue applicator



Features



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

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

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

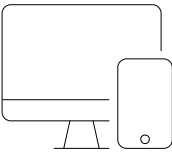
Articles

	Minicol glue applicator	Art. No.
	With plastic nozzle for biscuit grooves	175500
	With metal nozzle for biscuit grooves	175550


	Minicol pointed nozzle	Art. No.
	Plastic nozzle	335522







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

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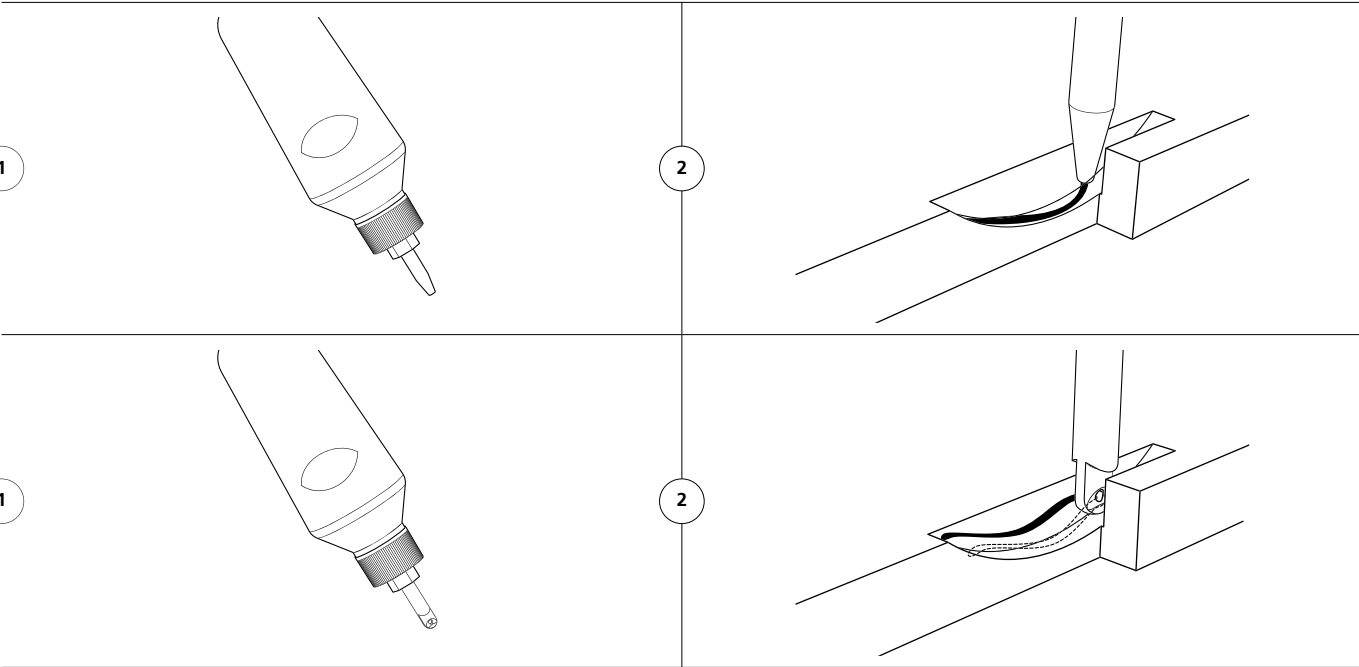


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Function



Technical data

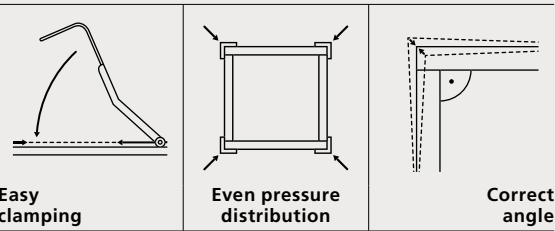
Dimension	100 × 100 × 230 mm	
Volume	300 ml	
Material	Base	Maple
	Bottle	Plastic
	Nozzle	Metal/Plastic

Clamping set

Clamping system for cabinets



Features



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

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

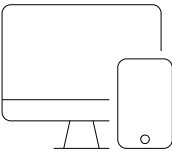
Articles

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

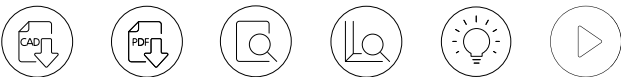
Tension hooks		Art. No.
2 pieces		175200

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

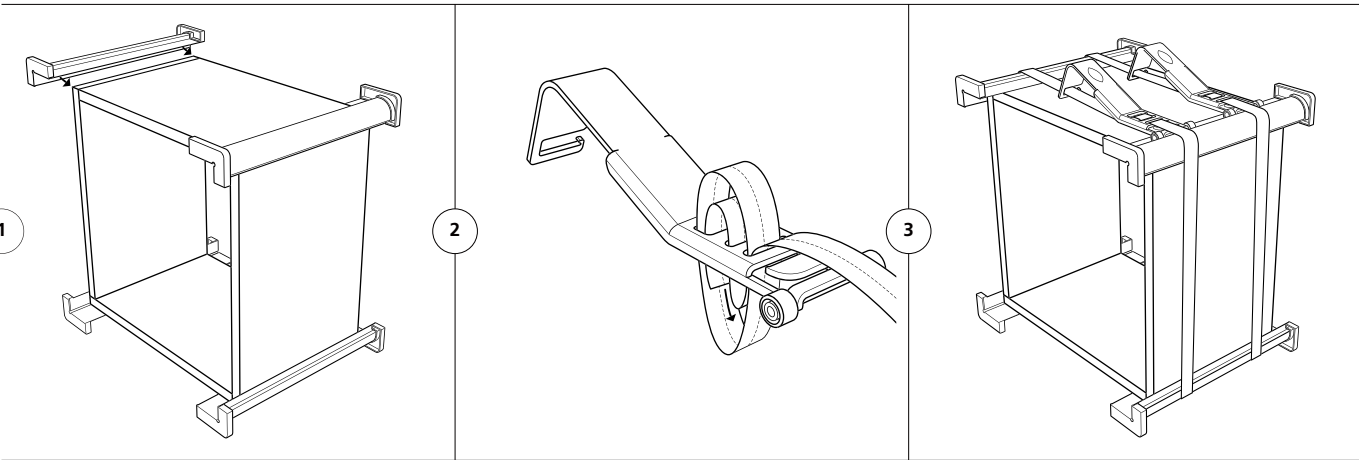
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Experience the clamping set live and receive comprehensive product information!



Function



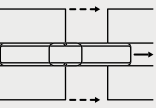
Technical data

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

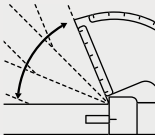
Classic X cordless

The original biscuit joiner – precise and cordless


Features



Highest precision




Versatile attachment option



Cordless freedom

Classic X cordless is the original, battery-powered biscuit joiner from the inventor of the Lamello system for cutting the 4 mm groove. The proven and well-designed Classic X cordless 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 the cordless freedom means even more flexible application. The multifunctional stop square allows perfect mitres by applying on the exterior surface and stabilises the machine in vertical position.

Articles



Classic X cordless biscuit joiner Art. No.

In systainer, incl. 2 batteries and charger	101701DES
In systainer, without batteries, without charger	101700DES
In carton, without batteries, without charger	101700DEK

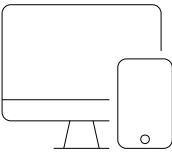


Kit contains


Classic X cordless biscuit joiner, 2 × battery pack 18 V, 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. 101701S

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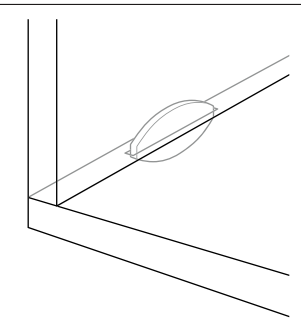
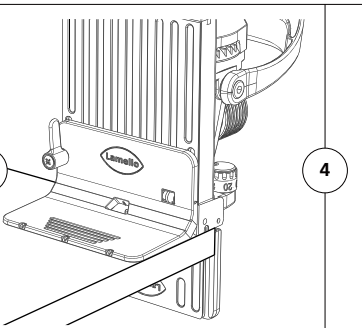
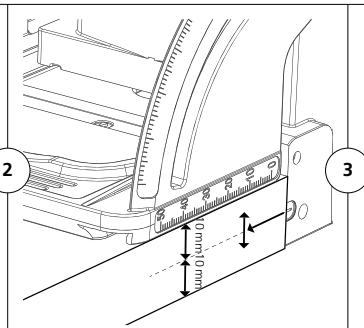
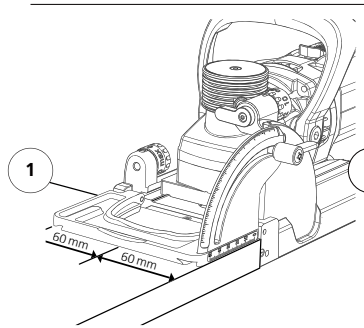
Experience Classic X cordless live and receive comprehensive product information!

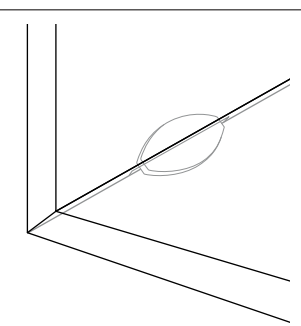
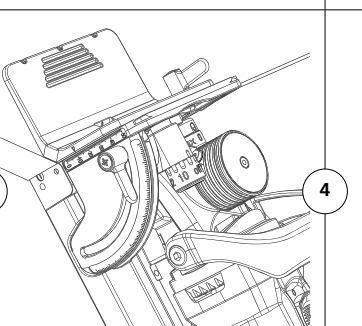
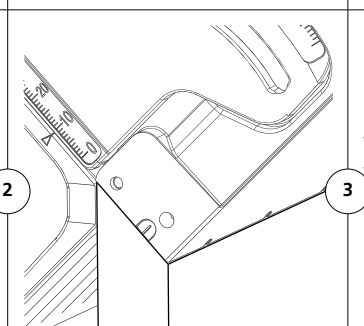
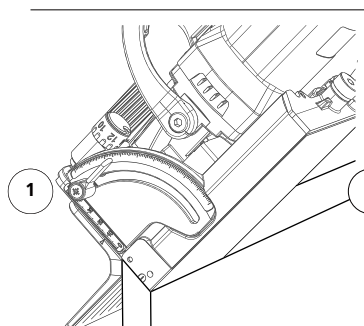


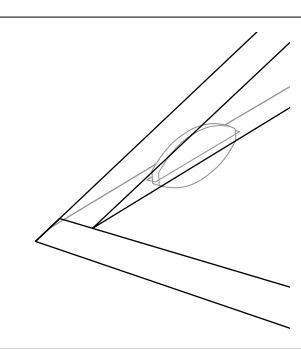
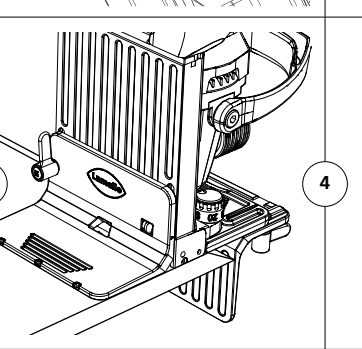
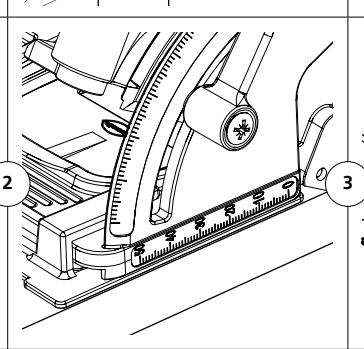
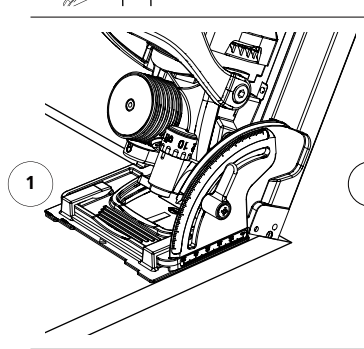


More information regarding the battery system on **PAGES 54–57**

Function







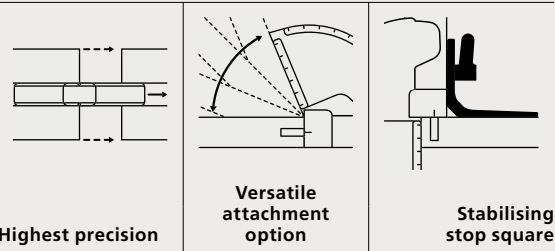
Technical data

Battery voltage	18 V	Groove width	4 mm
Speed	7 300 min ⁻¹	Groove depth max.	20 mm
Cutter	Ø 100 × 4 × 22 mm	Weight	3.1 kg incl. battery

Classic X

The original biscuit joiner for every workshop

Features



Classic X is the original biscuit joiner from the inventor of the Lamello System for cutting the 4 mm groove.

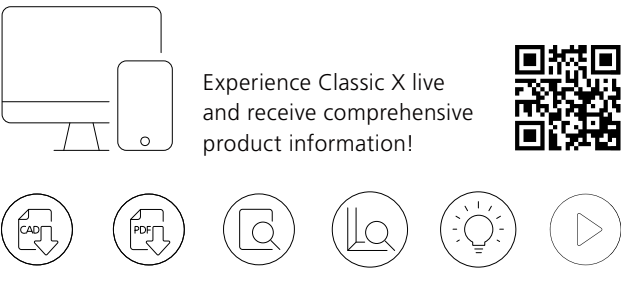
The proven and well-designed Classic X is fast and versatile in its use and the basis for the wide range of connectors with fixed, self-clamping and detachable solutions.

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.

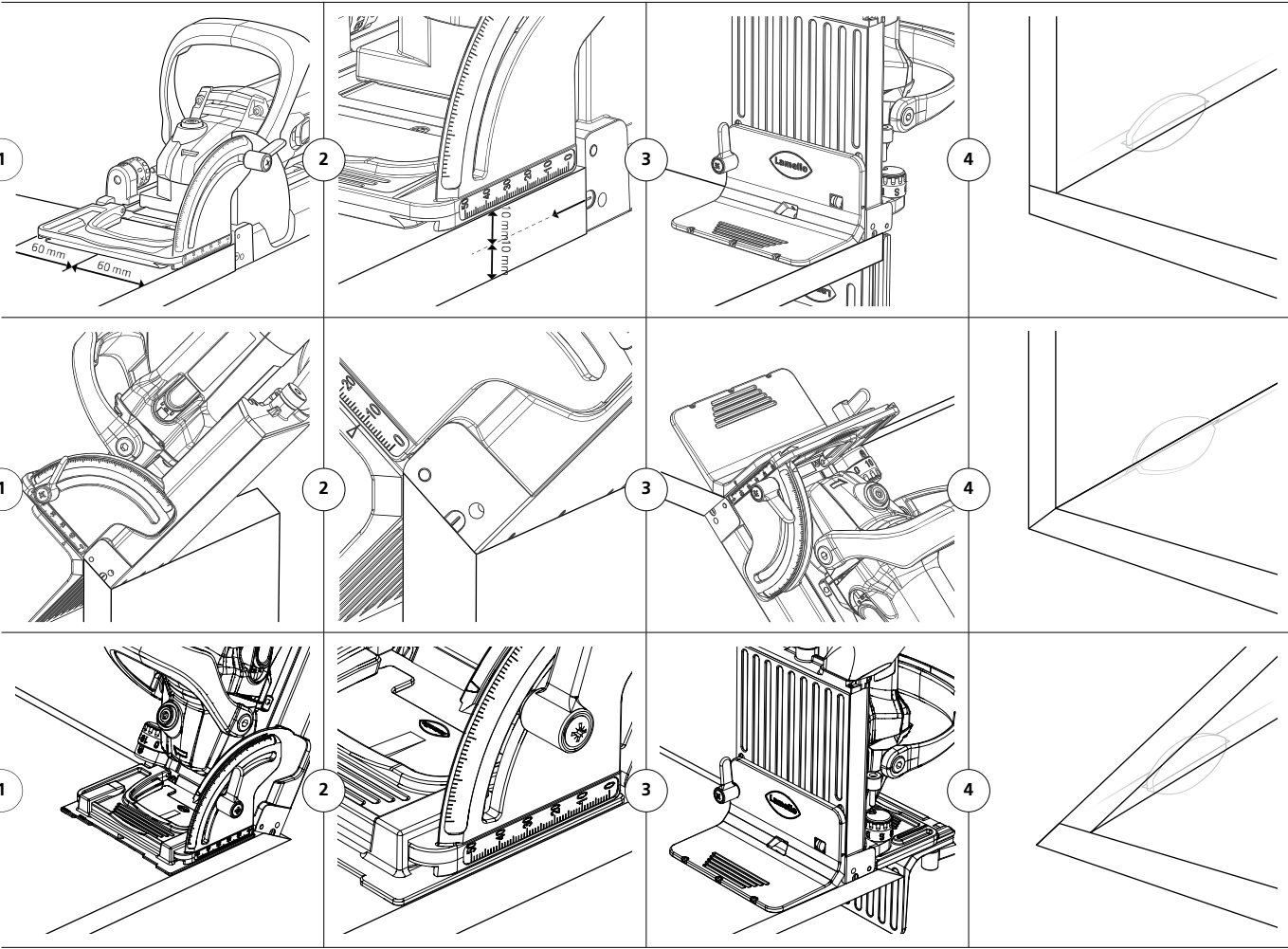
Articles



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Function



Technical data

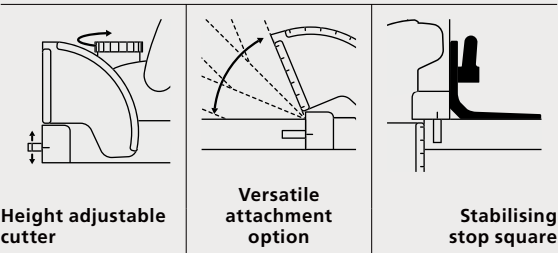
Power/Voltage	850 W/230 V or 120 V	Teeth	Z6 (3+3) with reversing teeth
Speed	10 000 min ⁻¹	Cutting depth max	20 mm
Cutter	Ø 100 × 4 × Ø 22 mm	Weight	2.9 kg

Top 21

The original biscuit joiner with height adjustable blade from the inventor



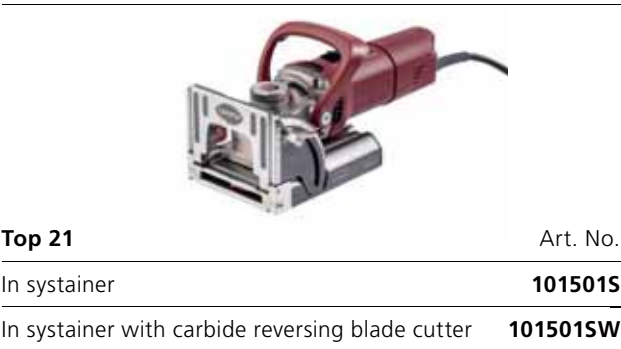
Features



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

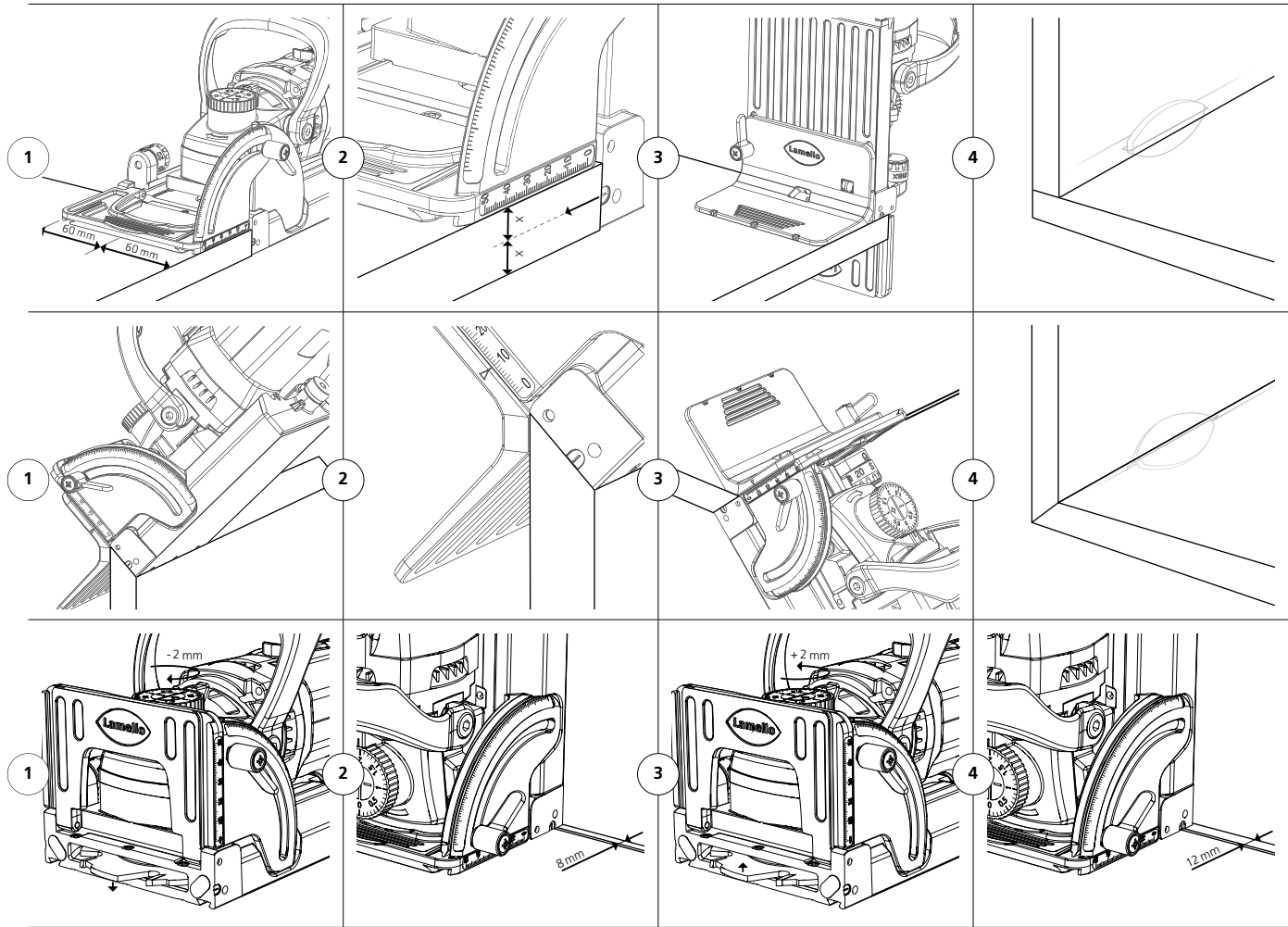


Top 21	Art. No.
In systainer	101501S
In systainer with carbide reversing blade cutter	101501SW



Kit contains
Top 21, groove cutter HW, suction stub 36 mm, dust bag, stop square, spacer 4 mm, tool set

Function

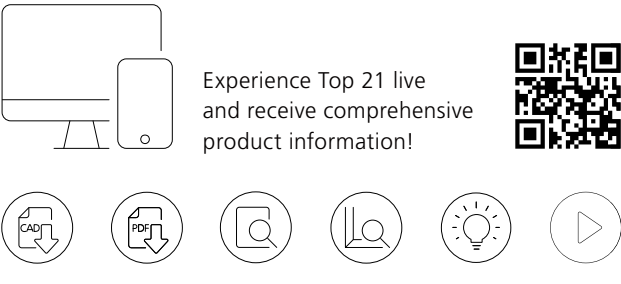


Technical data

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



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Accessories

Classic X cordless, Classic X and Top 21



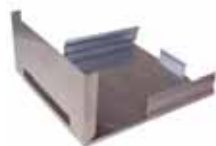
Accessories



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



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



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine for Zeta P2/Top 21/Classic X	251057



Carbide tipped saw blades HW (carbide)	Art. No.
for expansion gaps, Ø 100 × 2.4 × Ø 22 mm	
Z20, 4 screw holes, 2 spacers for Zeta P2/Top 21/Classic X	132350



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



	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	132106



Groove cutter HW (carbide), Ø 78 × 3 × Ø 22 mm	Art. No.
Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X	132009



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	
Z4 + V4, 4 screw holes for Top 20/Top 21/Classic X	132108



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



Suction stub 36 mm	Art. No.
For biscuit joiner (Festool compatible)	331007



Deflector stub	Art. No.
For biscuit joiner	331005



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



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



	Art. No.
Battery charger ASC 55	123100

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

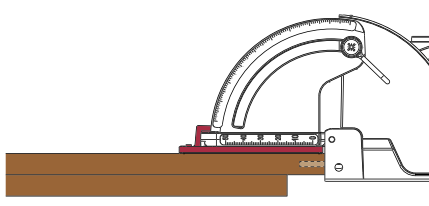
Swivelling front with fixed rotational point

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

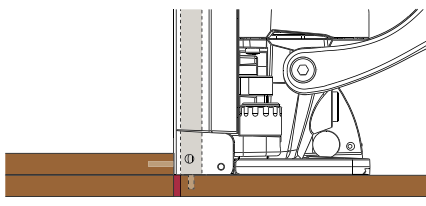
Allows alternating the application surface from the swivelling front **1.** to the baseplate **2.** Especially important when cutting thin dividing panel connections



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

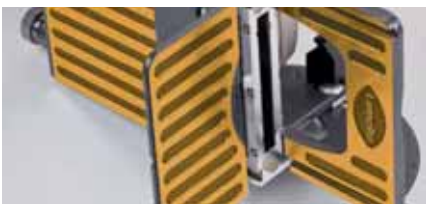


Application with the swivelling front
With the 4 mm spacer for 12 mm dividing panel (groove in the centre)



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

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

20	10	0
E20-H	E20-L	K20
C20	C10	Simplex

With 8 mm Lamello System groove cutter

Clamex S-18

With 3 mm Lamello System groove cutter

H9

Lamello depth adjustment system

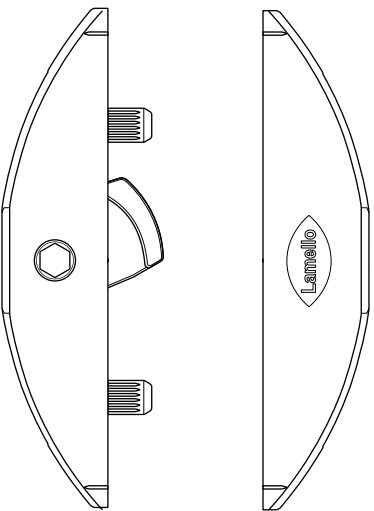
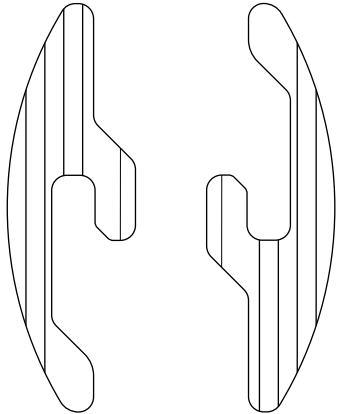
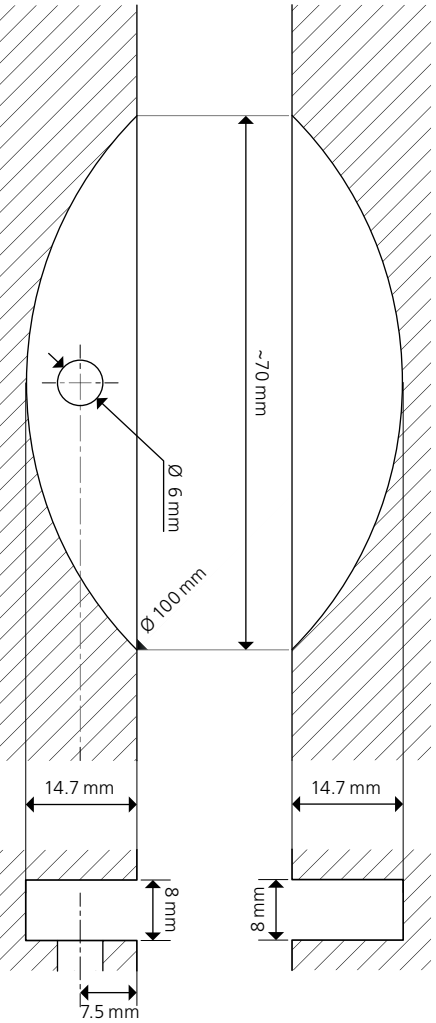
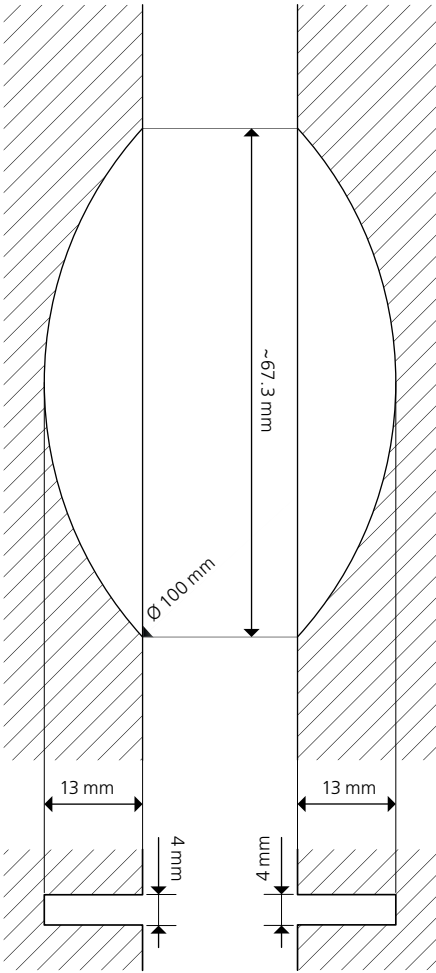
0	Depth 0 no. 0
10	Depth 10 no. 10, C10
20	Depth 20 no. 20, E20-L, K20, C20
S	Depth S E20-H, Simplex
D	Depth D Clamex S-18, E20-L
max	Depth max H9 (incl. spacer), E20-L

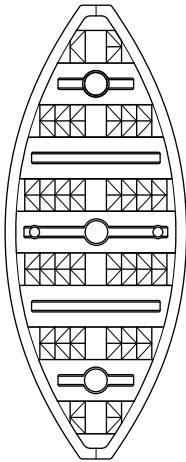
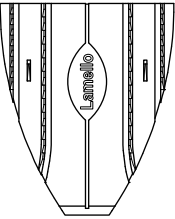

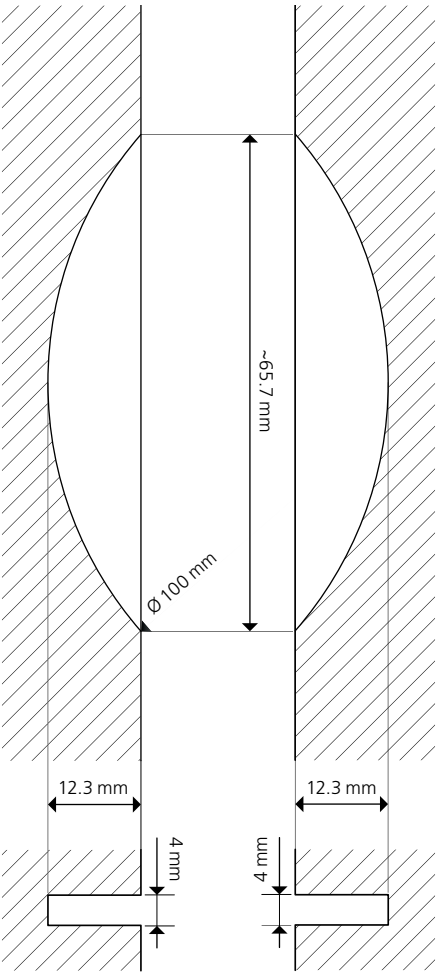
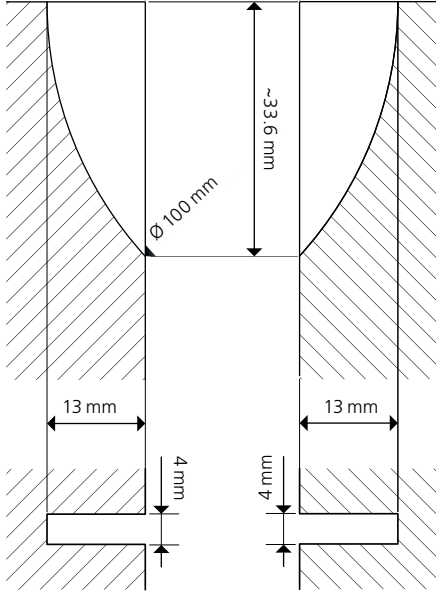
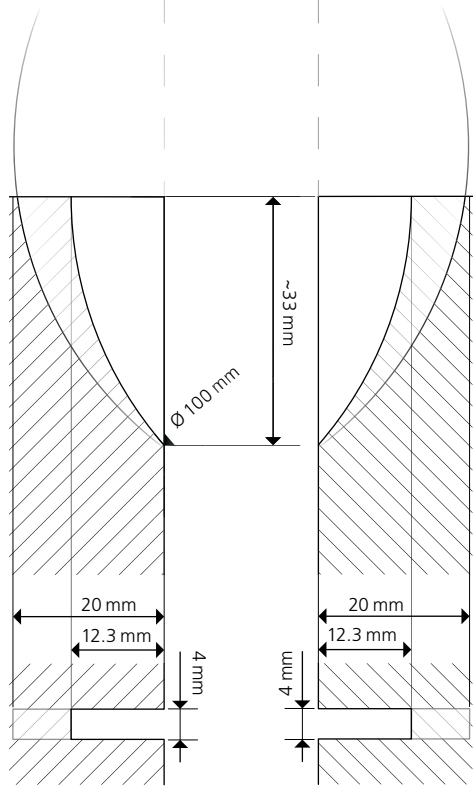
Original wood biscuit 20	Original wood biscuit 10	Original wood biscuit 0
Tensile strength (N) Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

Original wood biscuit H9	C20	C10
Tensile strength (N) Depending on the adhesive	Tensile strength (N) Depending on the adhesive	Depending on the adhesive

Technical information

Overview of connectors + grooves (scale 1:1)

Clamex S-18	Simplex
	
	
Tensile strength (N)	Up to
MDF	600 ¹
Particle board	600 ¹
Beech	900 ¹
	Depending on the adhesive

K20	E20-H	E20-L
		
		
Tensile strength (N)	Tensile strength (N)	Tensile strength (N)
Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

¹ See comment on load limits on PAGE 195

Accessories / Spare Parts

Lamello System



Lamello System



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



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



Systainer3 M187	Art. No.
Systainer3 M187, empty	331579
Insert with two partitions for Systainer3 M 187	360023
Divider for insert 360023	360019
Insert Systainer3 M187 for Zeta P2/Top21/Classic X	360020



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



	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	132106



Groove cutter HW (carbide),	Art. No.
Ø 78 × 3 × Ø 22 mm	
Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X	132009



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 × 4 × Ø 22 mm	
Z2 + V2, 4 screw holes with hub for Zeta P2/Top 21/Classic X	132001
Set of 4 pieces	132111
Countersunk screws	352408T
Allen key, 4 mm	271959L



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 × 4 × Ø 22 mm	
Z4 + V4, 4 screw holes without hub, with spacer for Zeta P2/Top 21/Classic X	132130
Set of 10 pieces main teeth	132134
Set of 10 pieces scoring teeth	132135
Replcement set, 4 scoring teeth + 4 main teeth	132133
Screws	352130
Torx key	352133



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	
Z4 + V4, 4 screw holes for Top 20/Top 21/Classic X	132108
Set of 10 pieces scoring teeth	132137
Set of 10 pieces main teeth	132136
Replcement set, 4 scoring teeth + 4 main teeth	132114



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

Batteries



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



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



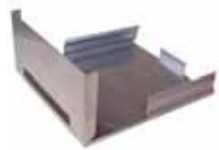
	Art. No.
Battery charger ASC 55	123100

Accessories/ Spare Parts

Lamello System



Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine for Zeta P2/Top 21/Classic X	251057



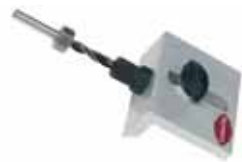
Carbide tipped saw blades HW (carbide) for expansion gaps, Ø 100 × 2.4 × Ø 22 mm	Art. No.
Z20, 4 screw holes, 2 spacers for Zeta P2/Top 21/Classic X	132350



Accessories for saw blades	Art. No.
Spacer, Ø 40 × 1 × Ø 22 mm with screw holes for Zeta P2/Top 21/Classic X	322510



	Art. No.
Flange M8 to saw blades	252502



Clamex S drill jig	Art. No.
Clamex S drill jig 30° – 150°, with 6 mm drill complete	125240



Clamex S-18 set	Art. No.
Drill jig for 30° – 150° incl. drill and carbide tipped groove cutter with drill jig and cutter includes 1 set 125240 and 1 piece 132108	125250

Clamping set parts



Clamps	Art. No.
5 m clamping strap	175005
8 m clamping strap	175008
10 m clamping strap	175010



Buckle for clamps	Art. No.
1 piece, without strap	175060



Polyester strap for clamps	Art. No.
1 roll of 50 m	175050



	Art. No.
Per meter m ¹	335000



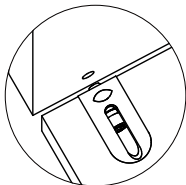
Tension hooks	Art. No.
2 pieces	175200



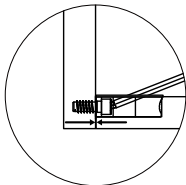
Profile sections	Art. No.
4 pieces, length 12 cm	175401
4 pieces, length 40 cm	175402
4 pieces, length 60 cm	175403

Drilling System

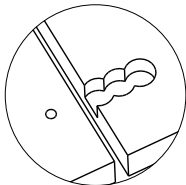
Unique drilling systems for high demands on productivity and aesthetics



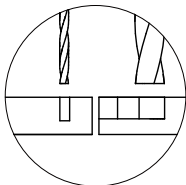
Fast assembly



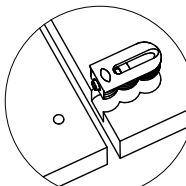
High clamping force



No edge drilling

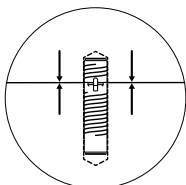


No dowel holes

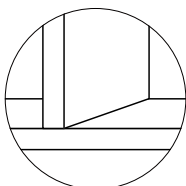


One-piece and pre-installed

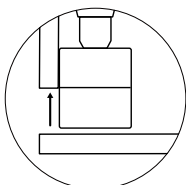
Features Invis Mx2



High clamping force



Invisible



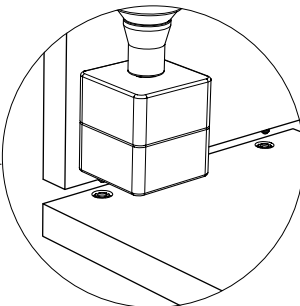
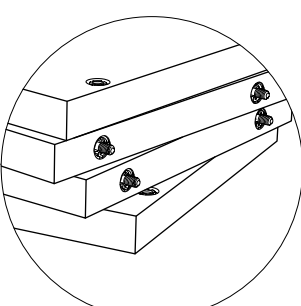
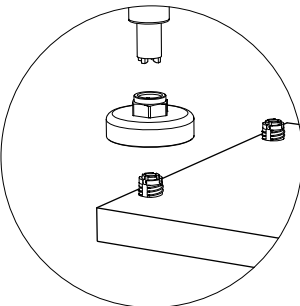
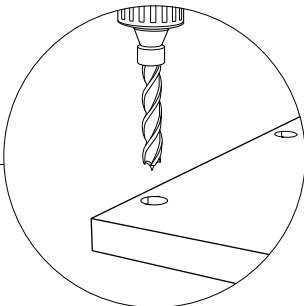
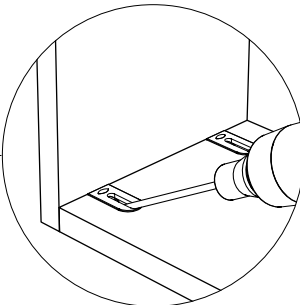
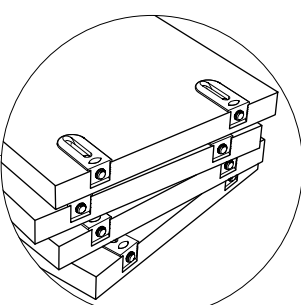
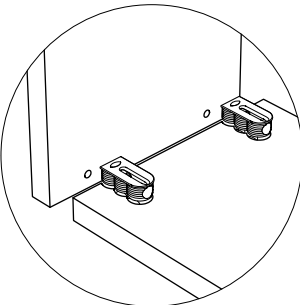
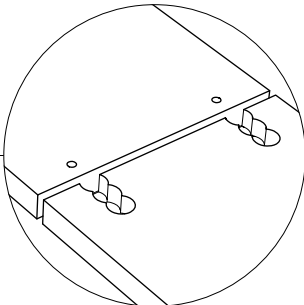
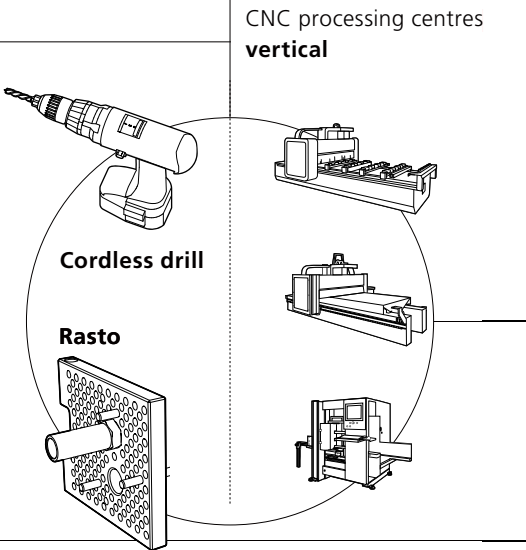
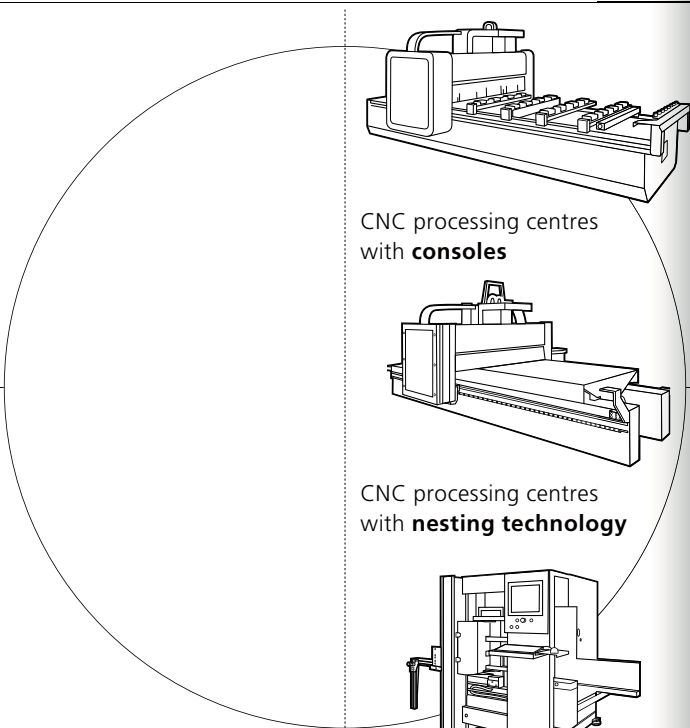
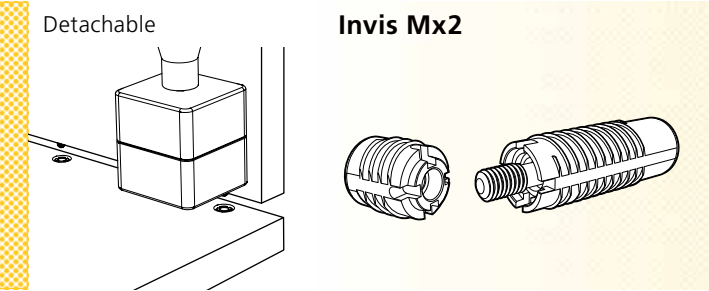
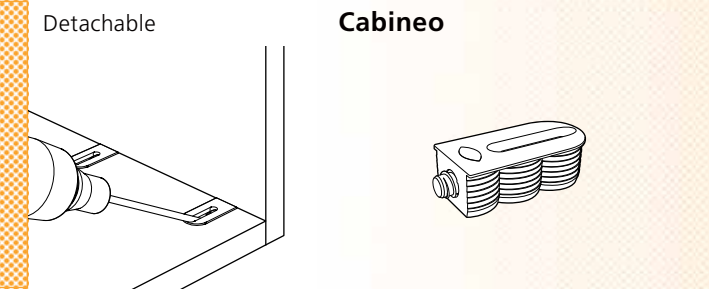
Detachable

Drilling System

- Cabineo
- Invis Mx2

Overview

Joining methods	Connector	Machines		Sequence			
		Power tool	CNC machines	1 Processing	2 Connector insertion	3 Deliver flat pack	4 Assembly





« The fitting impressed us due to its simple processing, time-saving assembly, detachability and high clamping force. »

Karl Lenhart jun., Owner, Lenhart joinery in the Tyrolean uplands

Drilling System

Applications

Furniture manufacturing



Interior fitting



Drilling System

Applications



Kitchen manufacturing



Cabineo 8 black



Cabineo 8

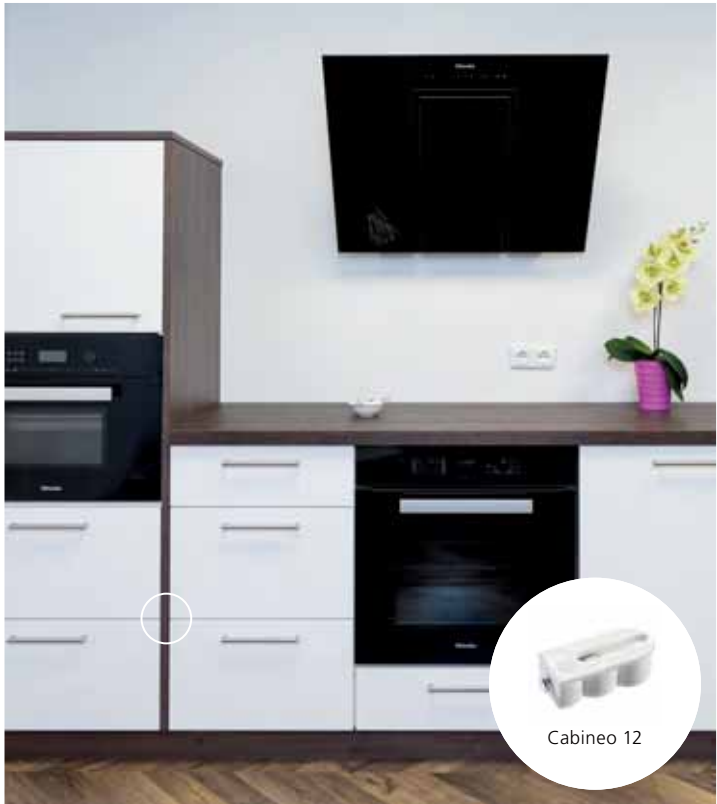
Commercial joinery



Cabineo 8 M6



Cabineo 8 M6



Cabineo 12



Invis Mx2

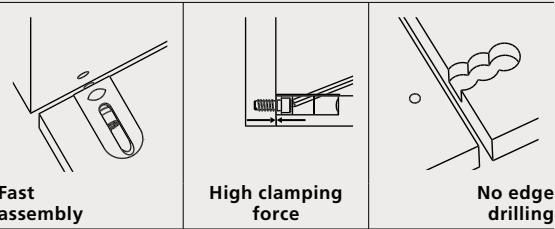
Shop fitting

Cabineo 12

Time-saving cabinet connector
for corner joints from 13 mm



Features



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.

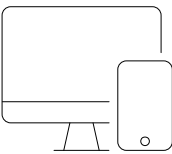
Articles

	Art. No.
Cabineo 12	
500 pieces	186320
2000 pieces	186321


	Art. No.
Cabineo 12 black	
500 pieces	186330
2000 pieces	186331







Cabineo 8/12 Starter set	Art. No.
Cabineo 8 + 12 (40 pieces each), incl. Cabineo hex bit and set of cover caps (40 pieces)	186305

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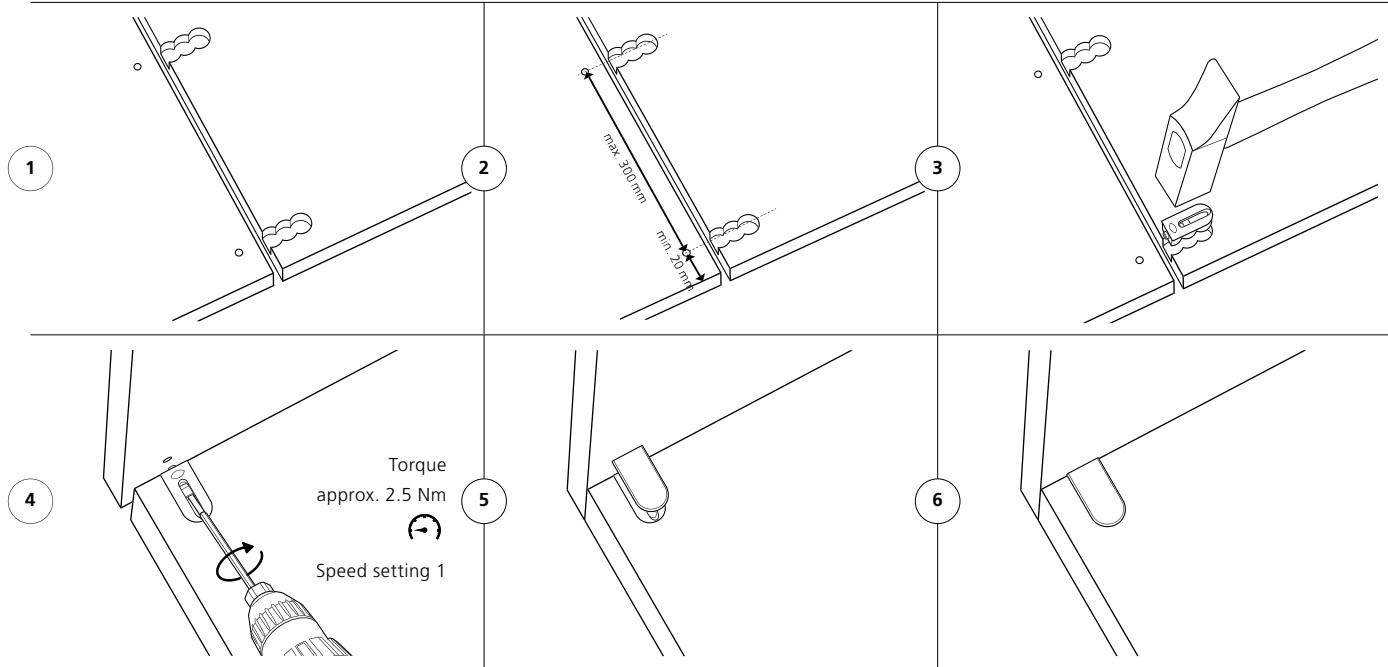


Experience the connector
live and receive comprehen-
sive product information!



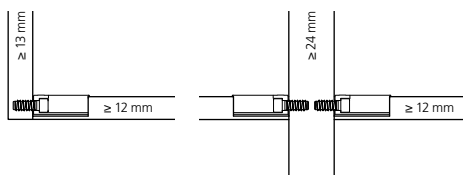


Function



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 tolerace	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
	900 ¹	850 ¹	900 ¹
	10 N ~ 1 kg		
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

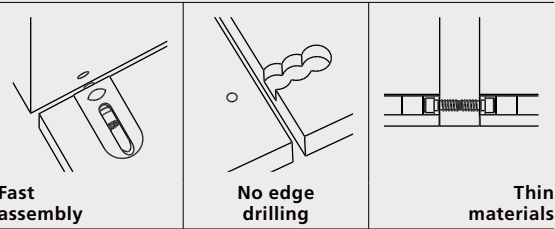
See **PAGE 146 – 147** for technical specifications | ¹ See comment on load limits on **PAGE 195**

Cabineo 8

Time-saving cabinet connector
for centre panels from 16 mm



Features



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.

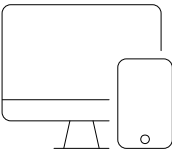
Articles

	Art. No.
Cabineo 8	
500 pieces	186310
2000 pieces	186311


	Art. No.
Cabineo 8 black	
500 pieces	186340
2000 pieces	186341







Cabineo 8/12 Starter set	Art. No.
Cabineo 8 + 12 (40 pieces each), incl. Cabineo hex bit and set of cover caps (40 pieces)	186305

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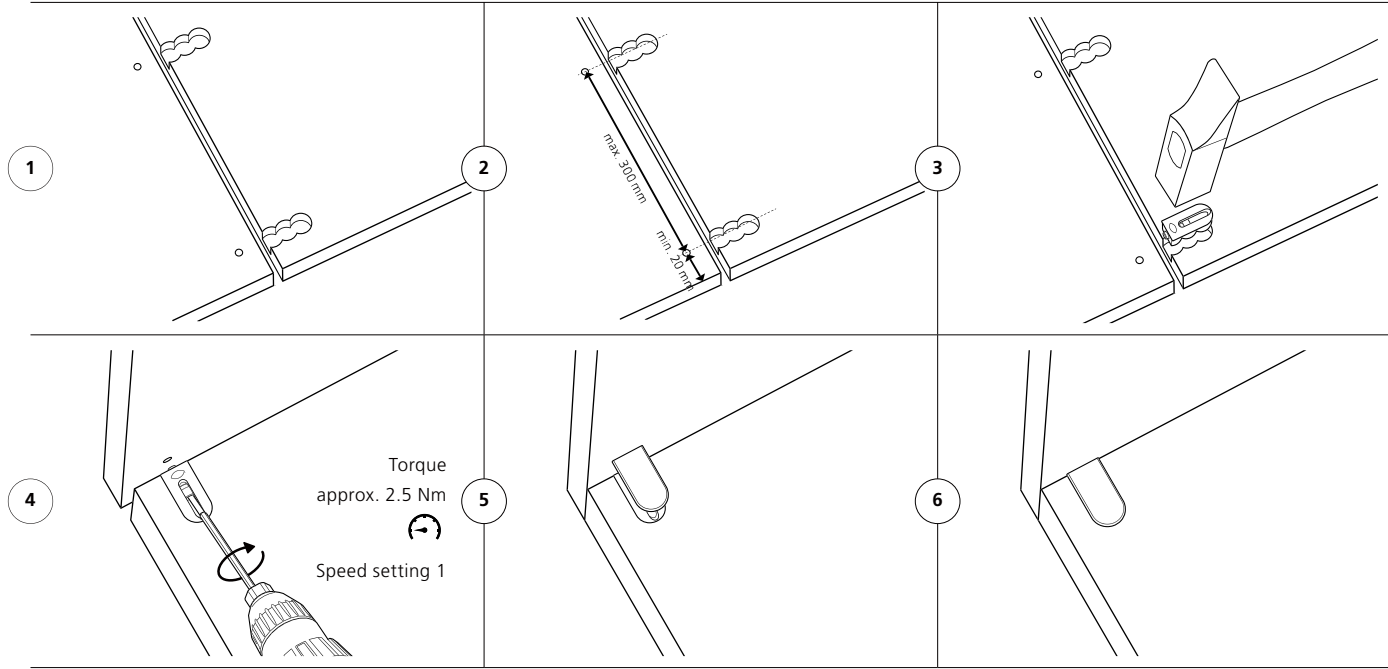


Experience the connector live and receive comprehensive product information!



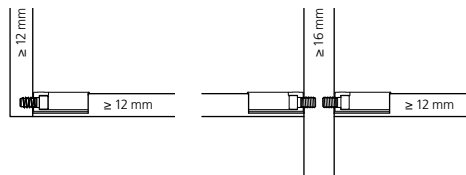


Function



Technical data

Joining methods



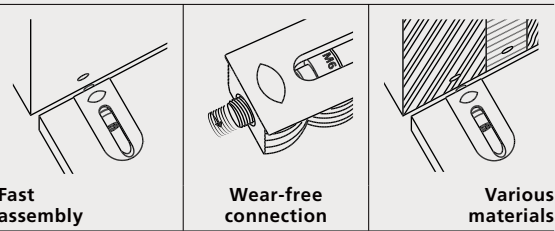
Size	33.8 × 16.5 × 10.8 mm		
Screw length	8 mm		
Cutter	Ø 12 mm or smaller		
Drill	Ø 5 mm and Ø 15 mm		
Material housing	Fiberglass reinforced plastic		
Installation tolerance	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
	500 ¹	550 ¹	500 ¹
	10 N ~ 1 kg		
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 146 – 147** for technical specifications | ¹ See comment on load limits on **PAGE 195**

Cabineo 8 M6

Wear-resistant cabinet connector for various materials and increased strength

Features



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.

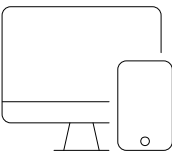
Articles

	Art. No.
Cabineo 8 M6	
500 pieces, metric thread M6	186315
2000 pieces, metric thread M6	186316


	Art. No.
Cabineo 8 M6 black	
500 pieces, metric thread M6	186345
2000 pieces, metric thread M6	186346







Cabineo 8 M6 Starter set	Art. No.
Cabineo 8 M6 (80 pieces), insert and cover caps (40 pieces each), Cabineo insertion tool (1 piece), Cabineo hex bit 1/4" (1 piece)	186306

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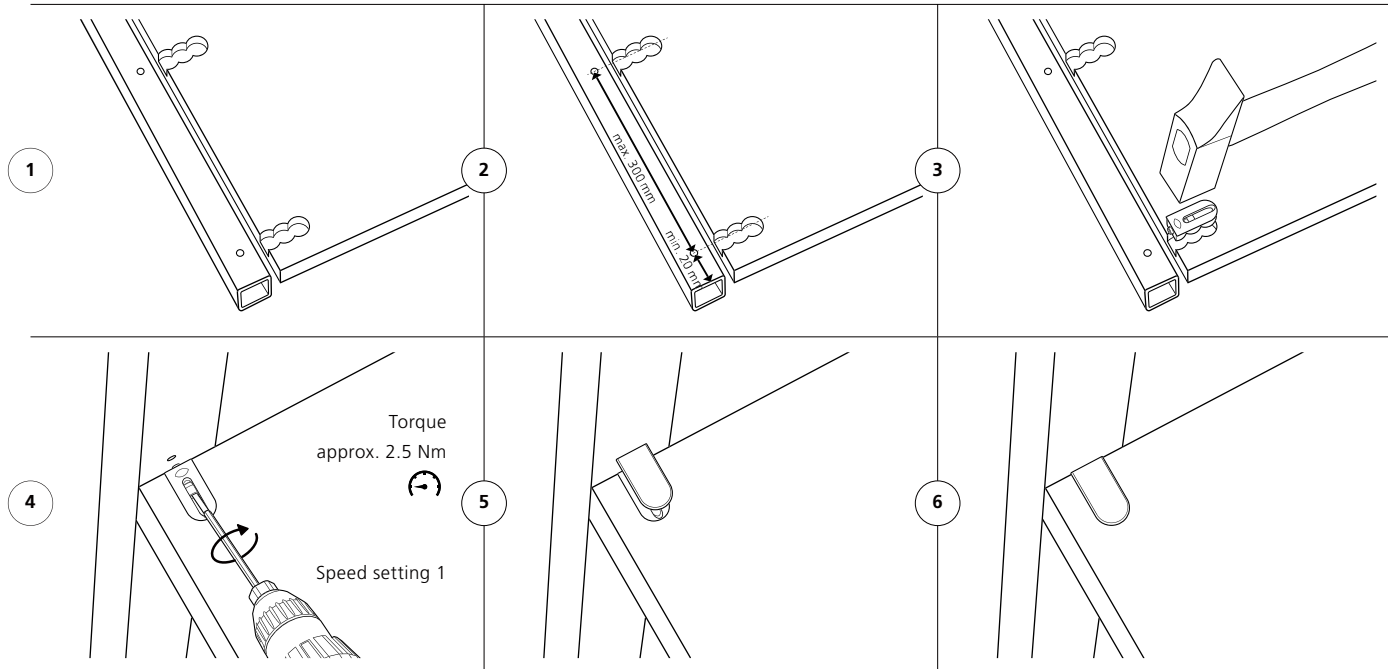


Experience the connector live and receive comprehensive product information!





Function



Technical data

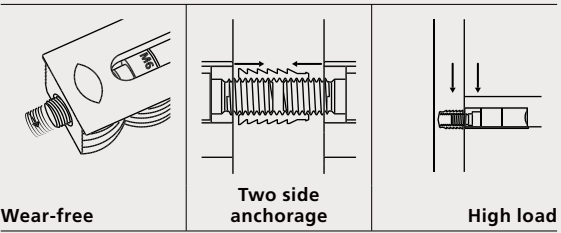
Joining methods	Size	33.8 x 16.5 x 10.8 mm		
	Screw length	8 mm		
	Cutter	Ø 12 mm or smaller		
	Drill	Ø 15 mm		
	Screw thread	M6		
	Material housing	Fiberglass reinforced plastic		
	Installation tolerance	Long. ± 0.1 mm		
	Strength per connector without dowel (N)	In HPL 12 mm Up to	Tensile strength (N)	Shear strength
			1700 ¹	1000 ¹
			10 N ~ 1 kg	1700 ¹
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See PAGE 146 – 147 for technical specifications | ¹ See comment on load limits on PAGE 195

Cabineo insert M6

For repeated assembly and disassembly without loss of strength

Features



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

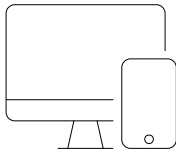
Cabineo insertion tool is included in delivery for the inserts.

Cabineo insert M6 × 12.3	Art. No.
100 pieces	186370
500 pieces	186371


Cabineo insert M6 × 15.3	Art. No.
100 pieces, for dividing panels	186375
500 pieces, for dividing panels	186376







Cabineo insert insertion tool	Art. No.
For insert M6	276310

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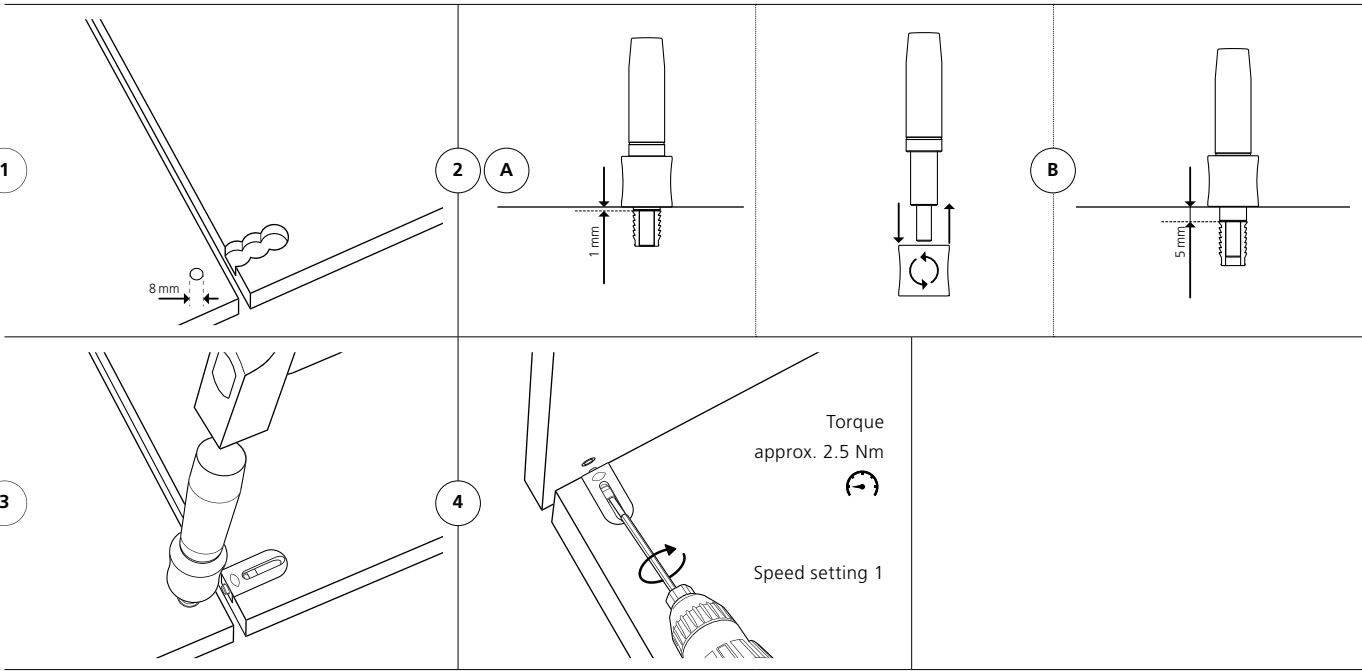


Experience the connector live and receive comprehensive product information!

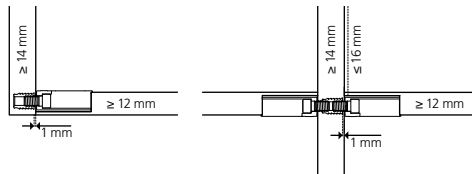
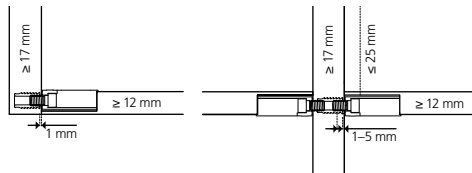




Function



Technical data

Joining methods  Cabineo insert M6 × 12.3 for material thickness 14–16 mm  Cabineo insert M6 × 15.3 for material thickness 17–25 mm	Size	12.3/15.3 × 9.3 × 9.3 mm		
	Thread	M6		
	Drill hole	Ø 8 mm		
	Material	Brass		
	Installation tolerance	Long. ± 0.1 mm		
	Strength per connector without dowel (N)			
	Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
	Insert M6 × 12.3	750 ¹	1050 ¹	750 ¹
	Insert M6 × 15.3	900 ¹	1200 ¹	900 ¹
		10 N ~ 1 kg		
Material range		Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 147** for technical specifications | ¹ See comment on load limits on **PAGE 195**

Advantages of Cabineo

Simple, fast and strong

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

Cabineo compared with cam and dowel

<div></div> <div></div> <div>4 surface processing steps 1 tool change</div>	<div></div> <div></div> <div>3 surface processing steps 2 tool changes</div>
<div></div> <div></div> <div>Fit Cabineo into top or bottom shelf</div>	<div></div> <div></div> <div>2 edge drill holes 1 tool change</div>
<div></div> <div></div> <div>Flat pack the workpieces</div>	<div></div> <div></div> <div>Prepare fitting bag</div>
<div></div> <div></div> <div>Flat pack the workpieces</div>	<div></div> <div></div> <div>Flat pack the workpieces</div>
<div></div> <div></div> <div>Assemble using a cordless drill</div>	<div></div> <div></div> <div>Insert cam into shelf</div>
	<div></div> <div></div> <div>Install the screw in the side</div>
	<div></div> <div></div> <div>Insert dowel into the side</div>
	<div></div> <div></div> <div>Assemble using a screwdriver</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.



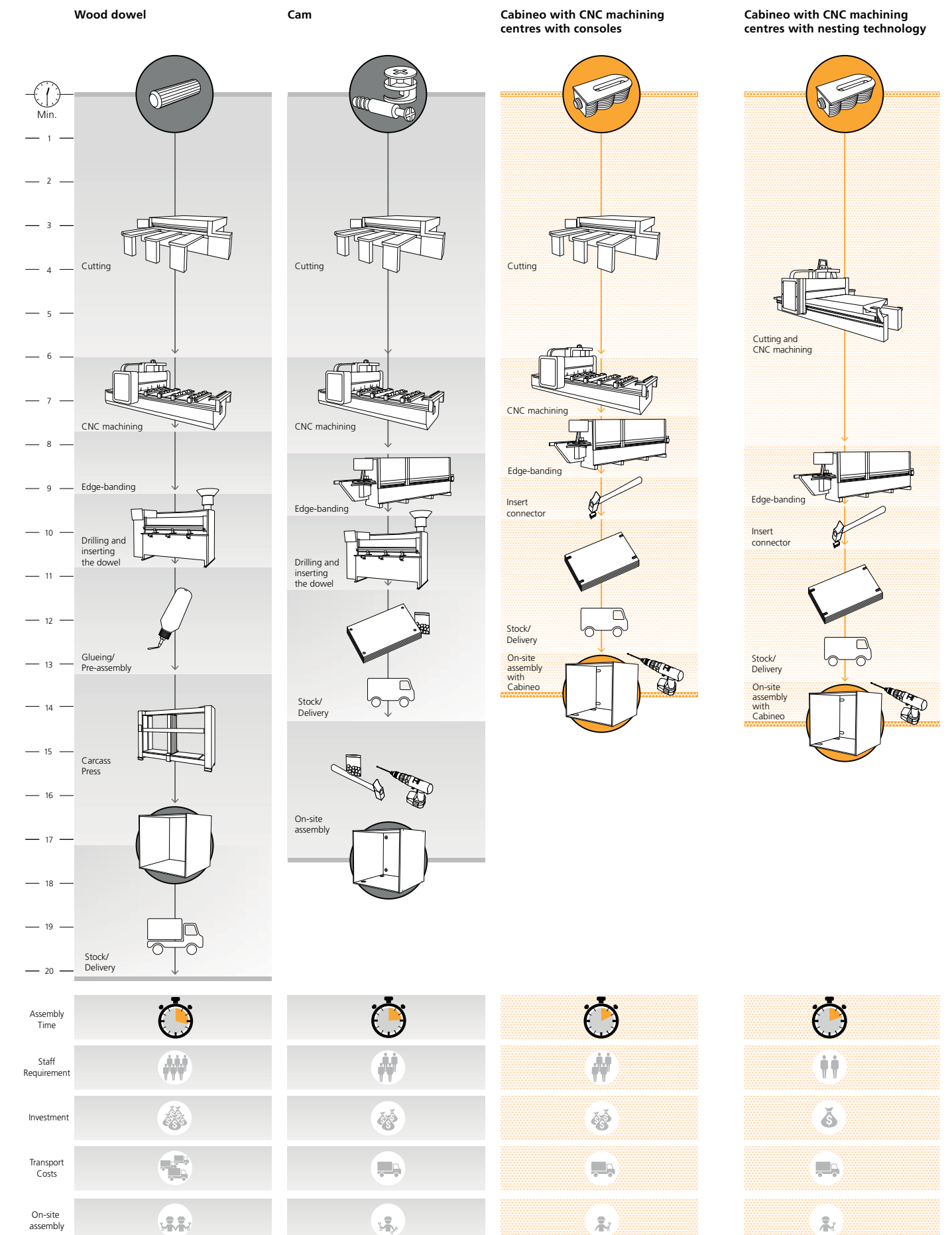
Position top and push towards the furniture side.



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



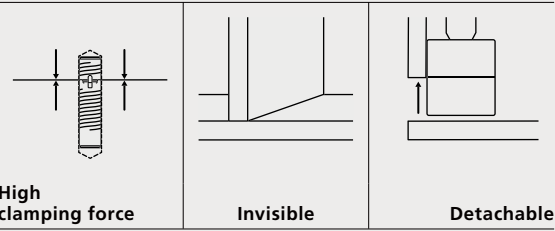
If required, use cover caps on the Cabineo.



Invis Mx2

Magnet-driven connecting fittings

Features



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 connector set Art. No. **6012300**
With 14 mm Invis Mx2 stud, 20 pairs

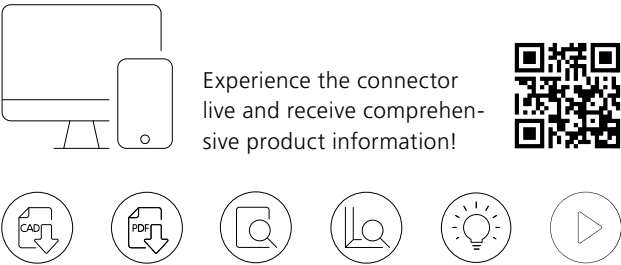


Invis Mx2 connector set Art. No. **6012301**
With 30 mm Invis Mx2 stud, 20 pairs

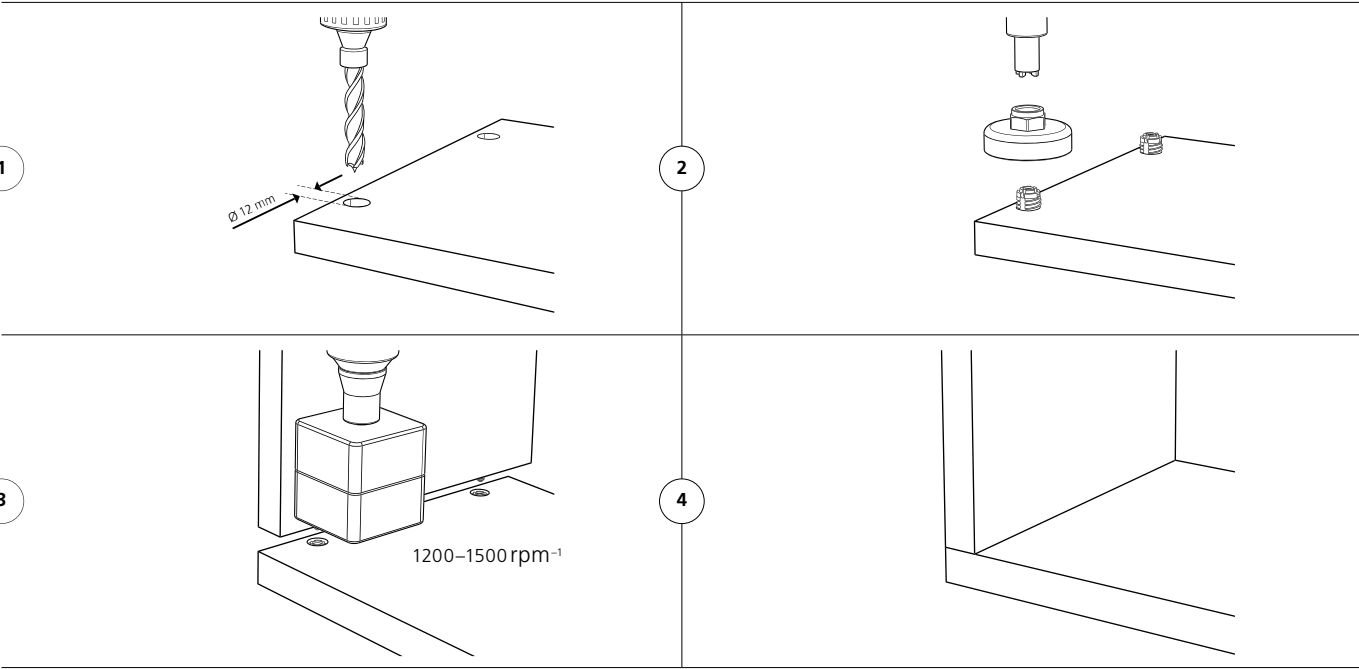


Invis Mx2 Starter set Art. No. **6100300**
Invis Mx2 MiniMag, Invis Mx2 connector sets, 20 pairs, with 14 mm Invis Mx2 stud, Rasto drill jig with 12 mm drill bit, depth adjuster, bushing, screw bit, flexible shaft, insertion jig

[www.lamello](http://www.lamello.com)



Function



Technical data

Joining methods	Size connector	Ø 12 × 35 mm	
	Size stud	Ø 12 mm × 30/14 mm	
	Size centre-wall stud	Ø 12 mm × 30 mm	
	Drill	Ø 12 mm	
	Speed MiniMag	Must be 1200–1500 rpm ⁻¹	
	Material housing	Zinc	
	Installation tolerance	Long. ± 0.1 mm	
	Clamping force per connector	250 kg ¹	
	Tensile strength (N) Up to	Connector sets with stud	14 mm 30 mm
		MDF	1500 N ¹ 4000 N ¹
		Particle board	600 N ¹ 1600 N ¹
		Beech	2000 N ¹ 4000 N ¹
		Spruce	1000 N ¹ 2000 N ¹
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.	

See **PAGE 148–149** for technical specifications | ¹ See comment on load limits on **PAGE 195**

Articles



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



Invis Mx2 stud 14 mm
20 pieces
Art. No. **6012312**



Invis Mx2 stud 30 mm
20 pieces
Art. No. **6012309**

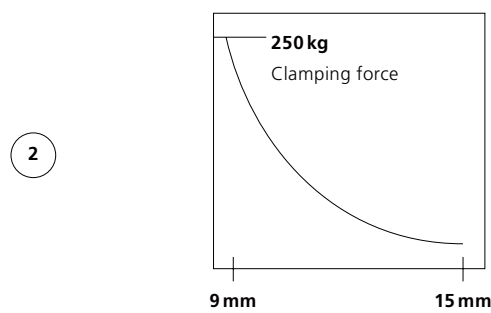
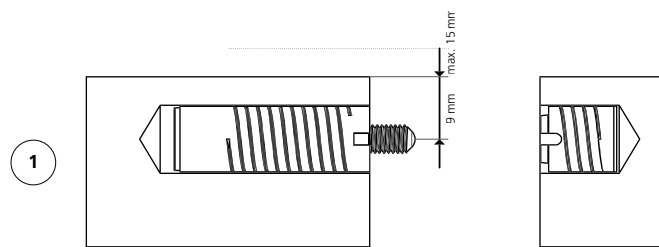


Invis Mx2 centre wall stud 10-30 mm
10 pieces
Art. No. **6012208**



Invis Mx2 MiniMag
Incl. screw bit
Art. No. **6100301**

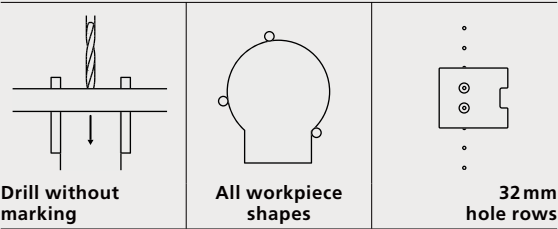
Function



Rasto drill jig

Universal drill jig without measuring or marking

Features



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

Rasto Duo set Art. No. **126002**

In a systainer: 2 transparent perforated plates,
8 drill bushings, 2 × Ø 5, 8, 10, 12 mm,
3 wood drill bits Ø 5, 8, 12 mm, 6 positioning bolts,
2 fastening screws, 1 connection rod,
1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

Rasto Basic set Art. No. **126005**

In a cardboard box: 1 transparent perforated plate,
4 drill bushings Ø 5, 8, 10, 12 mm,
3 positioning bolts, 1 fastening screw

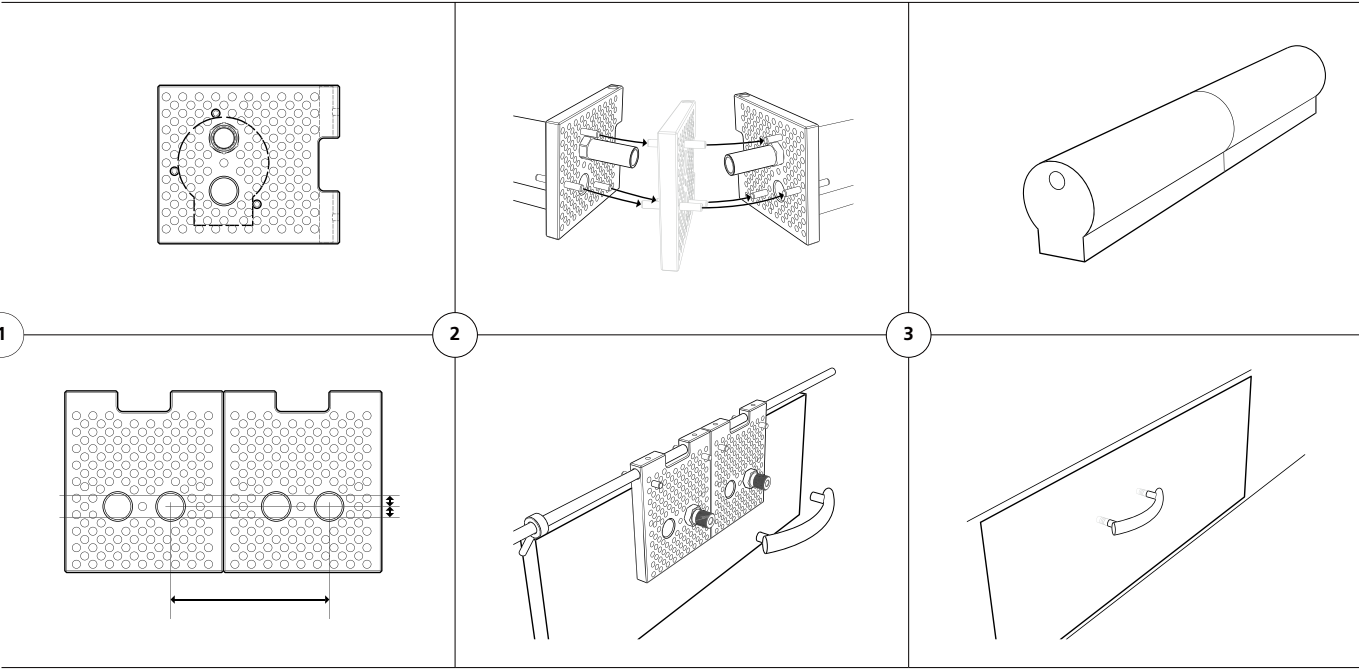
Rasto Mono set Art. No. **126001**

In a systainer: 1 transparent perforated plate,
4 drill bushings Ø 5, 8, 10, 12 mm, 3 wood drill bits
Ø 5, 8, 12 mm, 3 positioning bolts, 1 fastening screw,
1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

www.lamello

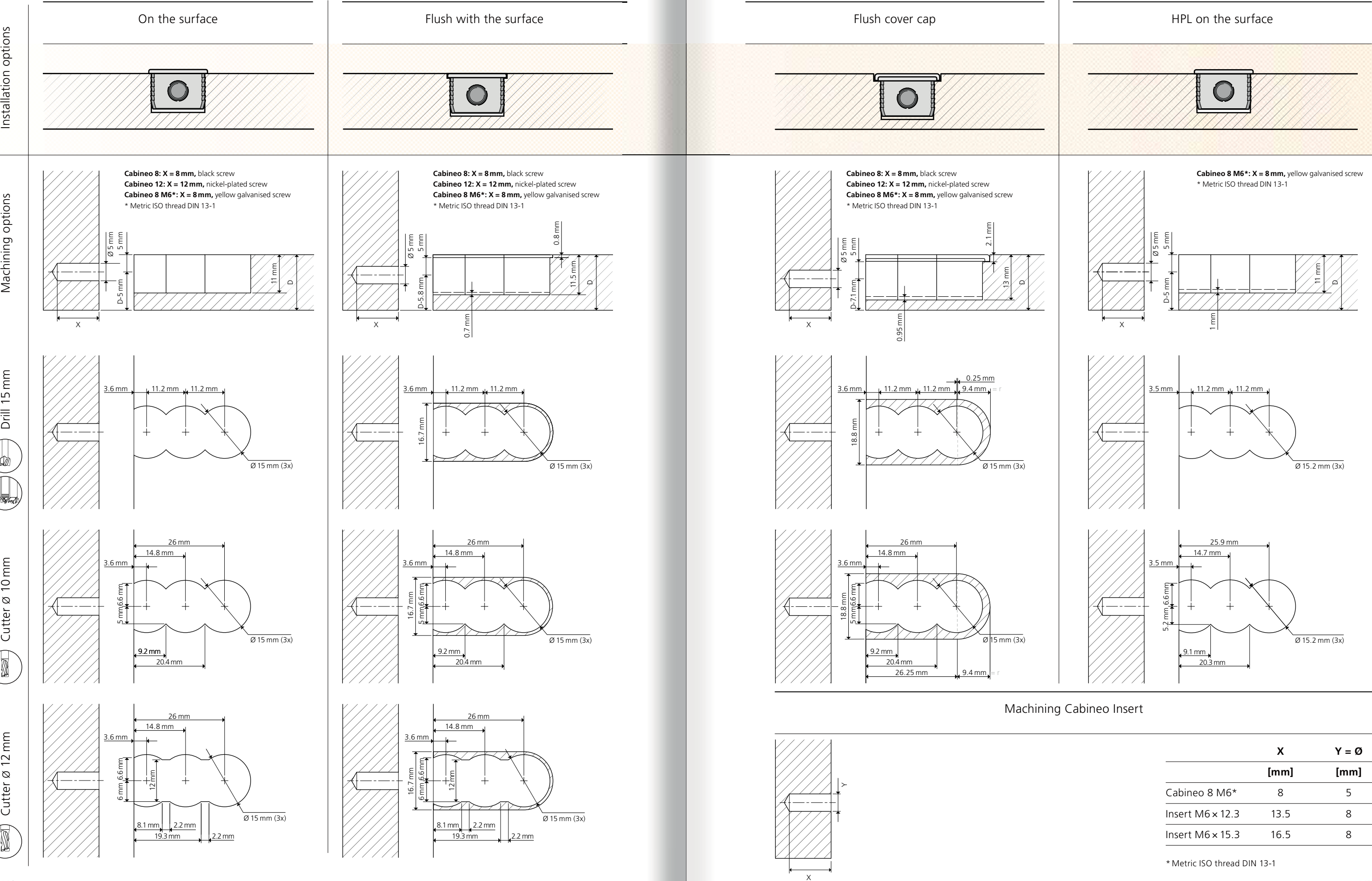
Experience Rasto live and receive comprehensive product information!

Function

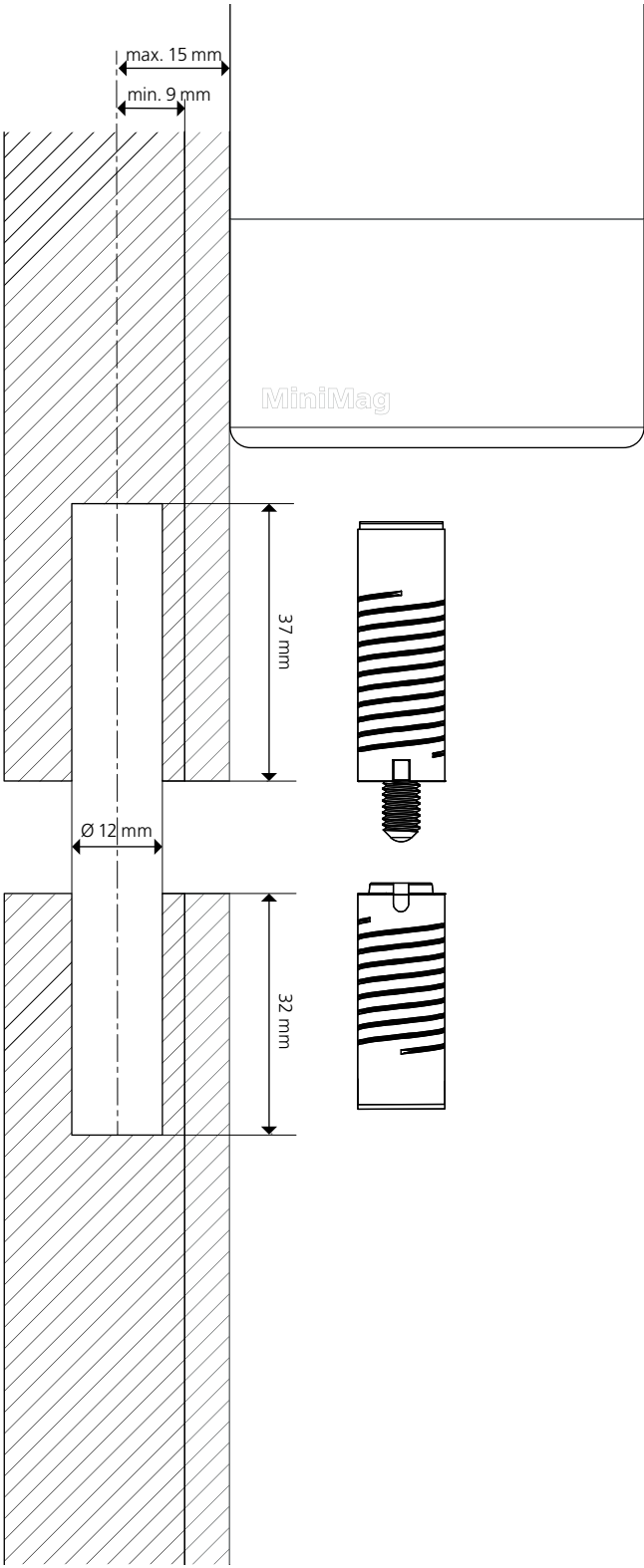


Technical data

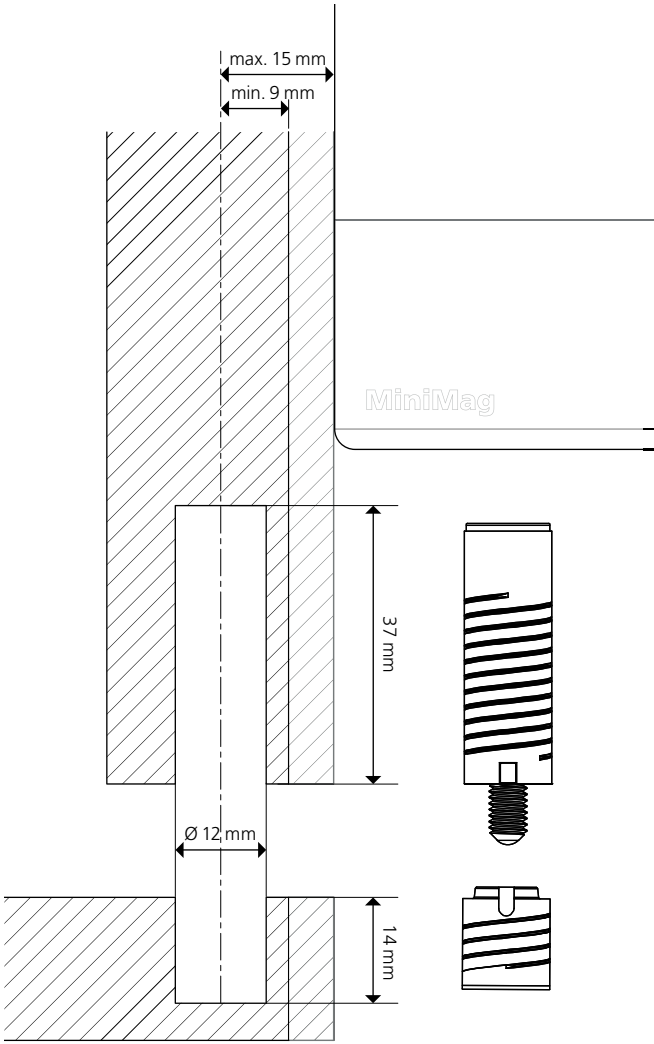
Rasto perforated plate	Size Rasto plate	110 × 96 × 12 mm
	Material Rasto plate	Polycarbonate



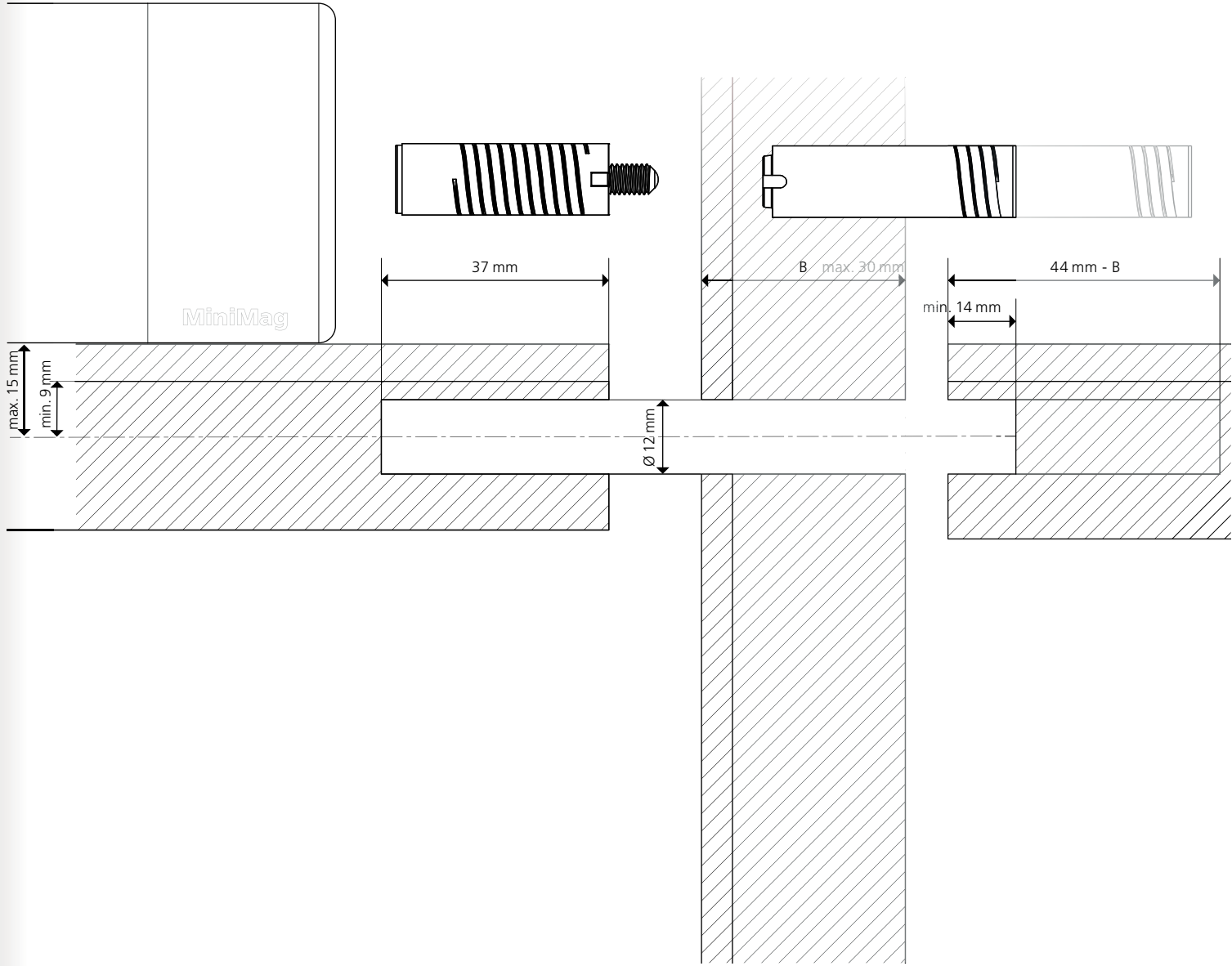
Invis Mx2 stud 30 mm



Invis Mx2 stud 14 mm



Invis Mx2 centre wall stud 14–30 mm



Accessories / Spare Parts

Drilling System



Cabineo



Cabineo installation tool	Art. No.
With handle, incl. hex bit 1/4"	256300



	Art. No.
Cabineo hex bit 1/4"	276312



	Art. No.
Cabineo hex bit 1/4" GL 80 mm	276308
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	276309



Cabineo drill/cutter	Art. No.
Cabineo drill Ø 15 mm with short centering point	136312



	Art. No.
Cabineo cutter Ø 10 mm	136310



	Art. No.
Cabineo cutter Ø 12 mm	136311



	Art. No.
Cabineo drills for aggregate* Ø 15 mm RH carbide tipped (right hand rotation)	136314



	Art. No.
Cabineo drills for aggregate* Ø 15 mm LH carbide tipped (left hand rotation)	136315



Cabineo cover caps	Art. No.	Art. No.
	100 pieces	2000 pieces
RAL 9003 signal white	186350S	186351S
RAL 9010 pure white	186350W	186351W
RAL 9018 papyrus white	186350P	186351P
RAL 1015 light ivory	186350H	186351H
RAL 1011 brown beige	186350B	186351B
RAL 8007 fawn brown	186350R	186351R
RAL 7040 window grey	186350F	186351F
RAL 7005 mouse grey	186350A	186351A
RAL 9005 jet black	186350T	186351T
Metal look, silver	186350C	186351C
Metal look, nickel	186350N	186351N
Metal look, dark steel	186350D	186351D



Cabineo insert insertion tool	Art. No.
For insert M6	276310

Accessories / Spare Parts

Drilling System



Invis Mx2



Invis Mx2 screw bit	Art. No.
1 piece	6112205



Invis Mx2 MiniMag	Art. No.
Incl. screw bit	6100301



Invis Mx2 flexible shaft	Art. No.
1 piece	6100204



Invis Mx2 insertion jig	Art. No.
For studs 14 mm	6112333



Invis Mx2 insertion bush for Rasto	Art. No.
For studs 14 mm	6112330

Rasto



Rasto wood drill bit with centering tip	Art. No.
Ø 5 mm	6100160
Ø 6 mm	6106161
Ø 8 mm	6108060
Ø 10 mm	6110162
Ø 12 mm	6112060



Rasto depth adjuster	Art. No.
Ø 5 mm	6100059
Ø 6 mm	6100063
Ø 8 mm	6100060
Ø 10 mm	6100064
Ø 12 mm	6100061



Invis Mx2 spacer	Art. No.
For Rasto	6112331



Rasto perforated plate	Art. No.
1 piece	6160000



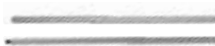
Rasto drill bush	Art. No.
Ø 5 mm	6100065
Ø 6 mm	6100056
Ø 8 mm	6100057
Ø 10 mm	6100067
Ø 12 mm	6100058



Rasto fixing screw	Art. No.
4.5 x 35 mm, TX 25	6560450



Rasto positioning bolts	Art. No.
Ø 5 x 40 mm	6160001



Rasto connection rod 500 mm	Art. No.
Two-part	6160601

Networked production

From planning and design to procurement, programming and machining with CNC.

Our planning and processing partners support you with integrating Lamello connecting elements into your production process, from A to Z.

CAD/ERP/CAM software



CNC machines/Aggregates/CNC tools

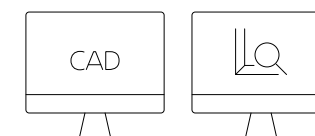




« If a product is automated – or can be controlled digitally – it will be used. »

Jochen Meier, Owner and Managing Director, Jochen Meier Schreinerei GmbH, Nürnberg, Germany

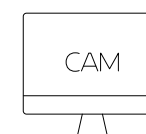
Components for the successful integration of Lamello connection systems into your networked production



CAD/ERP/Configurator software

- Design and planning software with integrated Lamello connectors
- Also download CAD data:
 - from the Lamello website
 - from iFurn
 - from specialist retailers (ComNorm)

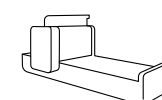
The degree of integration of the data and the parameterised position rules influence planning efficiency.



CAM software

- Software for generating CNC programming data
- Post-processor

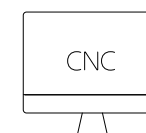
Data transfer between CAD and CNC, and in particular the control of the macros/ component, must be individually coordinated.



CNC machine

- Machine with 3/4/5-axis

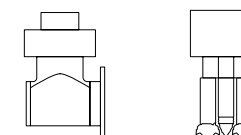
The number of axes and equipment options influence the processing possibilities



CNC software

- Purchase software for machine/macro/component from the manufacturer or
- Program the machining process yourself

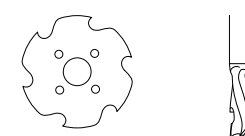
The macro/component determines/affects the processing possibilities



Suitable aggregate

- Aggregate sub-program
- The angle aggregate makes it easier to cut the P-System groove in the surface and the centre of the surface
- The Cabineo unit enables triple drilling in one stroke

The right unit can significantly increase efficiency when cutting/drilling connectors.



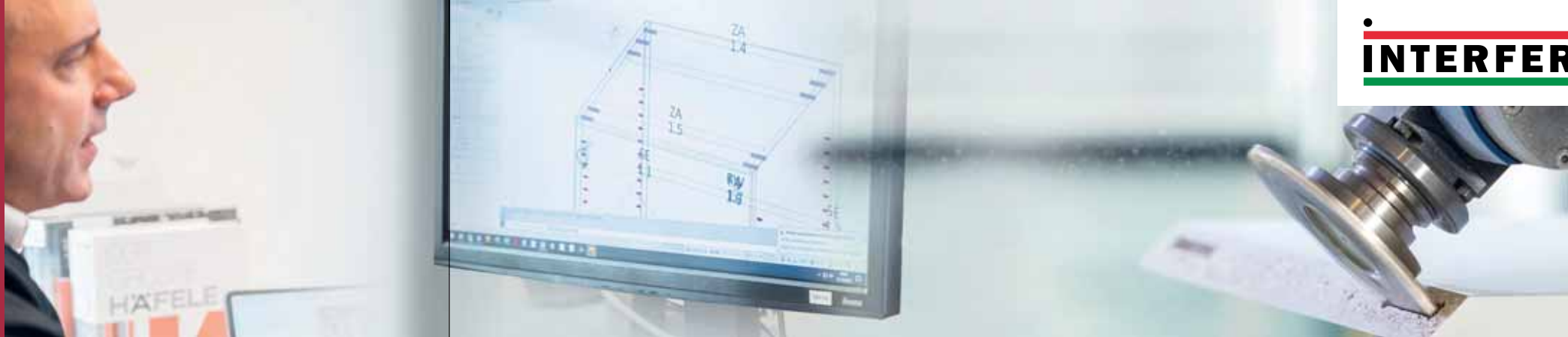
- Purchase tools from Lamello or a P-System tool partner
- You can find the tools recommended by Lamello on **PAGES 174–176**.

The right cutting tool can significantly increase precision and efficiency when cutting the connectors.

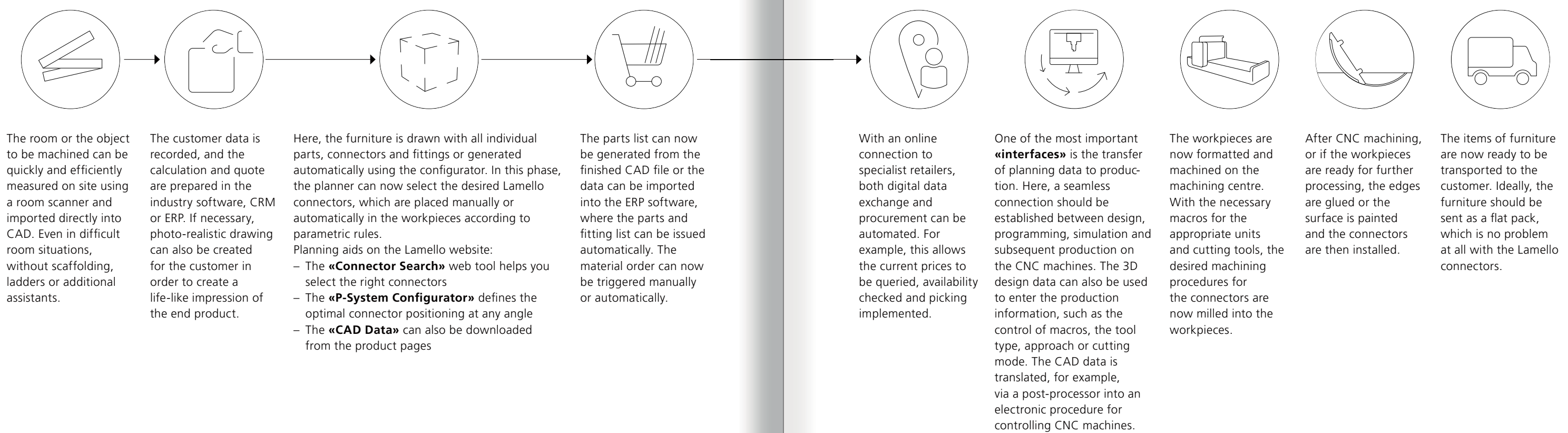
Networked production

Overview of the production process

Enabled by Lamello planning and machining partners



Sequence									
1	2	3	4		5	6	7	8	9
Measurements	The proposal phase	Planning with CAD/configurator/ERP	The bill of material		Procurement	CAM interface CAD/CAM system CNC programming data	CNC machining	Final processing	Dispatch/assembly
					Lamello sales partners				



Service overview

Lamello's planning and machining partners



Planning partners CAD / ERP / Configurator / CAM software																	
Company			2020	BRAINSOFTWARE	BormInformatik	CAD+T		cadwork	direkt CNC-system	HEXAGON	iFurn	imos					
Product name			2020 CAD	2020 CAD	SPAZIO3D PROF. + -ENTERP. PLUS	SPAZIO3D JOINERY + INDUSTRY 4.0	Pointline CAD	BormBusiness/EVO	Design/Engineer	ERP/Konfigurator	CNC	Configurator	NC Hops	Alphacam	Cabinet Vision	iX CAD 2021	iX CAM 2021
Offer / Material management / Ordering	ERP software							*		*							
	Interface with procurement				*	*	*	*	*	*					*		*
	Interface with CAD				*	*	*	*	*	*	*		*	*			
Visualisation / Planning / Construction / Parts list	Interface with ERP				*	*	*	*	*	*		*	*		*		*
	Data cloud for CAD data		*				*		*		*					*	
	CAD 2D software				*	*	*		*			*	*		*		
	CAD 3D software		*		*	*	*		*			*	*		*		*
	Configurator		*		*	*	*			*			*	*		*	*
CNC programming data	Interface with CNC			*	*	*	*		*	*	*	*	*	*	*		*
	CAD/CAM software			*	*	*				*			*	*			*
	WOP programming software			*	*	*				*		*	*				
	ISO programming software			*	*	*				*		*	*				

Produkt	Material	Produktionsverfahren	Werkzeug	Software	Hersteller
KCD Software				KCD Software	KCD Software
Kosmosoft				Smart CABINET	Smart CABINET
LIGNOCAM				LIGNOCAM	LIGNOCAM
OSD Datensysteme				ERP/PPS	OSD Datensysteme
PaletteCAD				CAD/CAM	PaletteCAD
PinCalc				Palette CAD	PinCalc
PHYTA				Palette CAM	PHYTA
Quality Industriale				ERP P123 Corpora	Quality Industriale
Swiss-all-CAD				CAD/CAM P305	Swiss all CAD
TopSolid				3D CAD	TopSolid
TrunCAD				woodlab STUDIO	TrunCAD
extragroupe				AutoCAD/ZWCAD/BricsCAD	extragroupe
rwdm.ch				Matrizen – Excel – CAM	rwdm.ch
Tibek				Matrizen – ERP – Manager	Tibek
Eficad				Wood CAD	Eficad
				Wood CAM	
				TrunCAD	
				VECTORWORKS	
				rwdm.ch	
				SmartWOP	
				SWOOD Design	
				SWOOD Service Center	
				SWOOD CAM/Nesting	

Service overview

Lamello's planning and machining partners



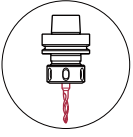



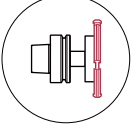




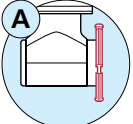
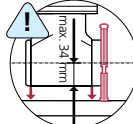




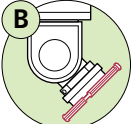




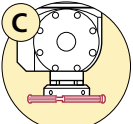
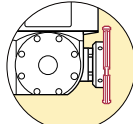
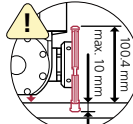




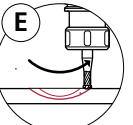



Machining partners CNC machines/Aggregates/CNC tools																									
Company																									
Product name																									
Offer / Material management / Ordering	ERP software																								
	Interface with procurement																								
	Interface with CAD																								
	Interface with ERP																								
	Data cloud for CAD data																								
Visualisation / Planning / Construction / Parts list	CAD 2D software																								
	CAD 3D software																								
	Configurator																								
CNC programming data	Interface with CNC																								
	CAD / CAM software																								
	WOP programming software																								
	ISO programming software																								
CNC machining	CNC with consoles																								
	CNC vertical/horizontal (compact)																								
	CNC nesting																								
	Aggregates																								
	CNC tools																								

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°														
	Access drill hole 45°														
	Access drill hole 22 – 108°														
	Access drill hole 22 – 108°														

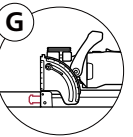
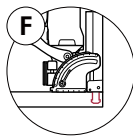


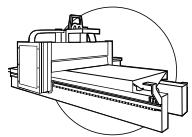
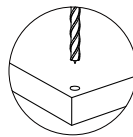
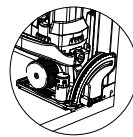
Detailed information on machining		Detailed information on machining		Possible setup of aggregates and tools		Comments
						Integrated CNC Z-axis with drill (5/6 mm) or with collet chuck for clamping Ø 10 mm and drill 131556 P-System CNC drill bit on PAGE 175
						Saw blade clamp Ø 40/DTK 52 mm and cutter 132143 or with collet chuck and cutter arbor You can find dimensions for cutters and clamping Ø and lengths of cutter arbors on PAGE 174/175
 						Angle aggregate – 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: www.lamello.com under planning and machining partners
						Manually adjustable swivelling aggregates Information: Several tool changes required for angle cuts, drilling and P-System grooves Note: The cutting depth in the centre of the surface may be restricted depending on the model. Tip: For a mitre, the drill hole could be made with the manual drill
  						Automatically adjustable swivelling aggregates with automatic tool changer (FLEX5+C/5-MOTION PLUS/Flex5+C, from year of manufacture 2015) – Tool holder WFC 40-25 clamping Ø 10 mm for drill – Drill shaft Ø 10 mm, tool protrusion max. 50 mm – Tool holder WFC 40-25 with flange and cutter 132143 Note: In the centre of the surface, the profile groove depth is limited to 10 mm
 						Shrink chuck for clamping Ø 12 x 40 mm and shaft tool 131342 or collet chuck for clamping Ø 12 x 40 mm and shaft tool 131342 P-System CNC shaft tool cutter on PAGE 175.

* More information on **PAGES 174–175**

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.

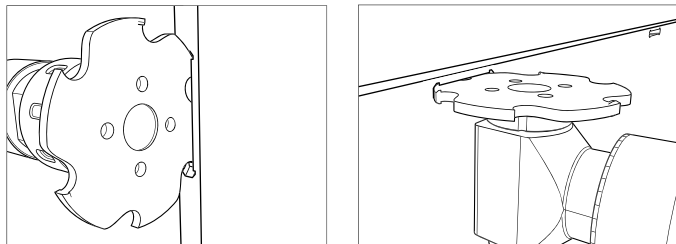
Possible combination of CNC machines with Zeta P2

More regarding the machining on **PAGE 171**





 	 	  
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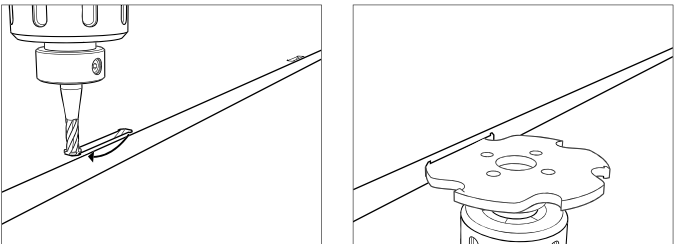
P-System equipment options

For CNC machines for particularly efficient machining



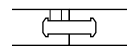
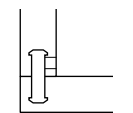
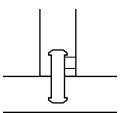
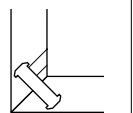
Vertical and horizontal CNC machining centres
«CNC compact class»

			
DRILLTEQ V-500 25-spindle + 1x aggregate (VKNR 1549) 1x tool set (VKNR 9763)	EVOLUTION 7405 Connect	Brema Eko 2.1 1x aggregate 2x P-System CNC groove cutters 1x P-System CNC cutter arbor 1x drill Ø 6 mm	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	1 · 2 · 3	1 · 2 · 3	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	cx 210 1x aggregate 2x P-System CNC groove cutters 1x P-System CNC cutter arbor 1x drill Ø 6 mm	Nextec 7707 1x tool set	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	1 · 2 · 3	1 · 2 · 3	1 · 2 · 3

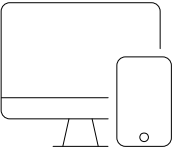


			
Creator 950 1x P-System CNC groove cutter in HSK63F 1x P-System CNC shaft tool cutter* in HSK63F 1x drill Ø 6 mm *optional for P-System CNC shaft tool cutter: 1x aggregate for 90° 1x P-System CNC groove cutter	ProTec + P-System add-on package Editor with Lamello P-System macro 1x P-System CNC groove cutter in HSK63F 1x P-System CNC cutter arbor 1x P-System CNC shaft tool cutter 1x drill Ø 6 mm	DRILLTEQ V-200 woodWOP «Lamello P-System» component 1x P-System tool set	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	1 · 2 · 3	1 · 2 · 3	1 · 2 · 3 · 4


Connectivity

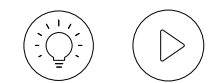




Surface 180°  1	Corner 90°  2	Centre wall 90°  3	Mitre 2x 45°  4
-------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------	---------------------------------------------------------------------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

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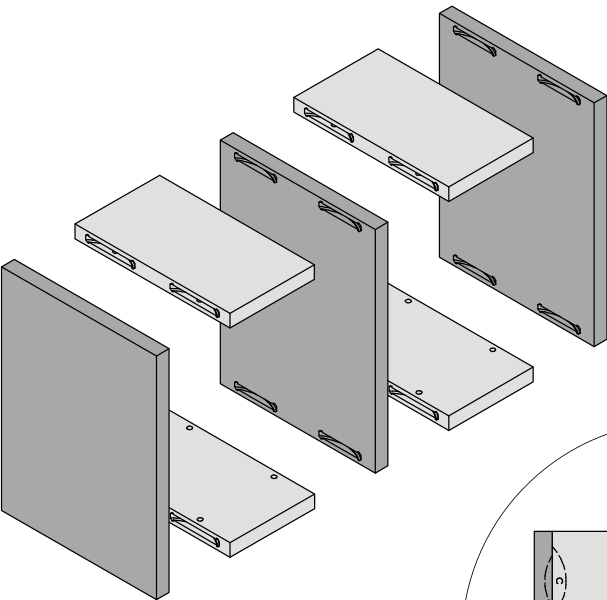
Experience CNC live and receive comprehensive product information!



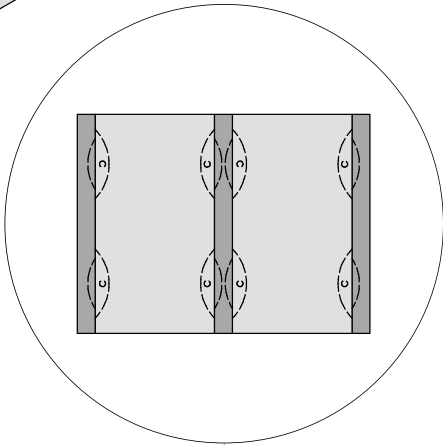


Ideas for standardising

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	2000 pieces element with lever
	145388

	Art. No.
Clamex P-14	2000 pieces element with lever
	145338

	Art. No.
Clamex P-14/10 Flexus	2000 pieces element with lever
	145318

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

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

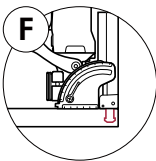
	Art. No.
Clamex P-10 Medius	2000 pieces element without lever
	145369

Possible combination of CNC machines with Zeta P2

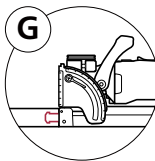


Precise drilling on a CNC machine; use these drill holes to position the Zeta P2 to cut the P-System grooves.
This application is especially ideal if the CNC machine is a nesting machine and or no aggregate is available.
This method combines the precision and efficiency of a CNC machine and uses the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

Positioning drill holes for the Zeta P2



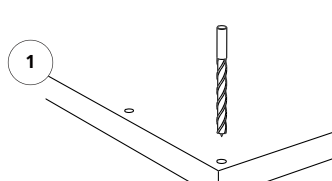
Positioning pin CNC for Zeta P2,	Art. No.
2 pieces	
Ø 5 mm	251048
Ø 8 mm	251066



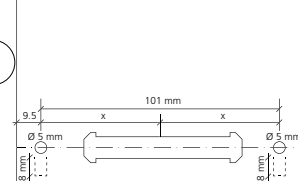
Positioning clip CNC	Art. No.
for Zeta P2	
Ø 6 mm	251067
for positioning in the Clamex P access hole (6 mm)	

Machining steps

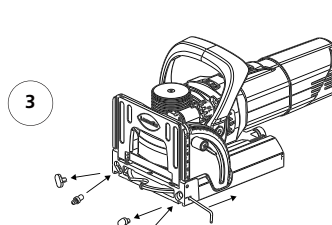
1. Drill the positioning holes with the CNC, Ø 5 mm/Ø 8 mm



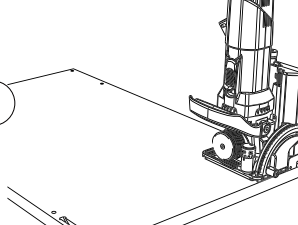
2. Hole pattern of the positioning drill holes axis spacing 101 mm



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



2. Insert the positioning clip



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

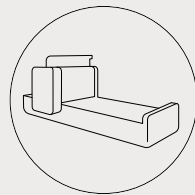


4. Cut the groove with the positioned machine



Cabineo with CNC

Specific equipment options for CNC machines for Cabineo



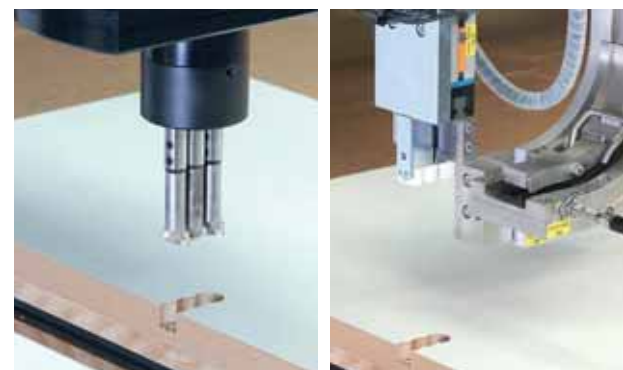
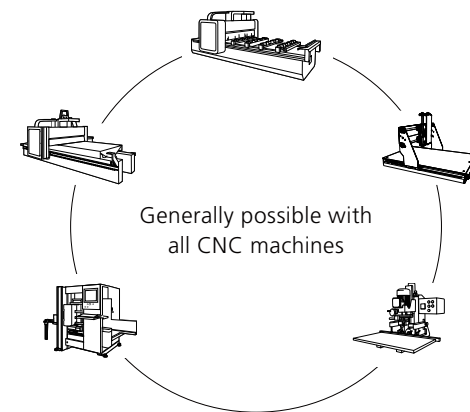
CNC machine

Homag CENTATEQ N-600

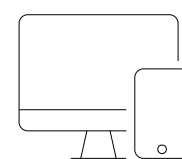
Homag has developed the unmanned installation of the Cabineo connector on its nesting CNC machine CENTATEQ N-600. First, the multi spindle aggregate from Benz creates the drill shape, consisting of 3 drill holes, in one plunge. Once the panels are cut to size, the machine will commence with the fully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

Gannomat Basica Variabel 0194

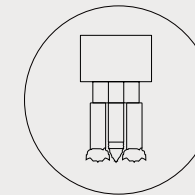
First, the 3 spindle aggregate drills the 15 mm drill holes in one plunge. Following this, the Cabineo is held by an insertion aggregate and is pressed into the board. The 5 mm holes for the Cabineo screw are drilled either with the boss hinge aggregate or the 11 spindle shelf pin aggregate.



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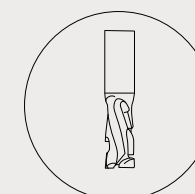
CNC tools - aggregate

Benz MULTI V3 CABINEO

Benz has developed a 3 spindle aggregate to drill the holes for the Cabineo in one plunge. This reduces the production time to 1–2 seconds (1 drill, anti-clockwise rotation; 2 drills, clockwise rotation).

Atemag VERTINEO Function Line

Atemag offers an aggregate for the efficient machining of the three Cabineo drill holes in one process step (2 drills, anti-clockwise rotation; 1 drill, clockwise rotation).



CNC tools

Leuco triple drill

Leuco developed the three meshing drills for aggregates with triple multi-spindle head

Leitz triple drill

Leuco triple drill set for Cabineo aggregate.



CNC tools

For the P-System



P-System CNC tools



P-System CNC drill bit	Art. No.
6 mm, solid carbide, for mitres, L = 100/35 mm, shaft = Ø 10 mm	131556



P-System groove cutter CNC DP (diamond), Ø 100.4 x 7 mm	Art. No.
Ø 100.4 x 7 x Ø 30 mm, Z3, NL 4 x Ø 6.6 x Ø 48 mm suitable for all P-System CNC cutter arbor listed on the right	132142
Ø 100.4 x 7 x Ø 30 mm, Z3, NL 4 x Ø 6.6 x Ø 48 mm LH for Weeke BHX 200 / DRILLTEQ V-500 (left hand rotation)	132149



	Art. No.
Ø 100.4 x 7 x Ø 30 mm, Z6, NL 4 x Ø 6.6 x Ø 48 mm suitable for all P-System CNC cutter arbor listed on the right	132145



	Art. No.
Ø 100.4 x 7 x Ø 40 mm, Z3, NL 4 x Ø 5.5 x Ø 52 mm E.g. for angle aggregates and FLEX5+C / 5-MOTION PLUS	132143



	Art. No.
Ø 100.4 x 7 x Ø 16 mm, Z3, NL 4 x Ø 5.5 x Ø 28 mm E.g. for corner notching aggregate	132144



	Art. No.
Ø 100.4 x 7 x Ø 35 mm, Z3, NL 4 x Ø 5.5 x Ø 50 mm e.g. for Brema Eko 2.1, Masterwood Project TF 100, Format4 D-Jet	132148



CNC cutter arbors for P-System groove cutter, Ø 30, NL 4 x M4 x Ø 48 mm	Art. No.
Shaft Ø 20 x 50 mm, L = 102 mm	132150



	Art. No.
Shaft Ø 25 x 60 mm, L = 102 mm	132151



	Art. No.
Shaft Ø 16 x 50 mm, L = 85 mm	132152



	Art. No.
Shaft Ø 16 x 55 mm, L = 68 mm	132153



	Art. No.
Shaft Ø 16 x 50 mm, L = 85 mm, with clamping surface (2°- angle) e.g. for aggregate for door locks	132154

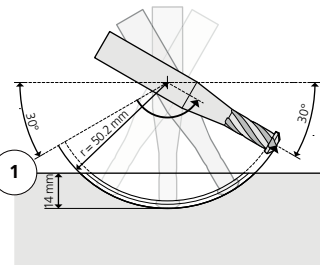


	Art. No.
Shaft Ø 20 x 50 mm, L = 85 mm, with clamping surface (2°- angle) e.g. for aggregate for door locks	132155
M6 x 16 mm Torx countersunk bolt, 4 pieces, suitable for cutter arbors	132159
Screwdriver with cross-grip, Torx T20 x 100 mm	271919

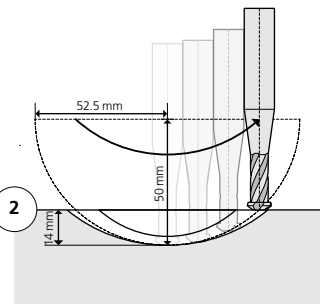


P-System CNC shaft tool cutter	Art. No.
HW solid (carbide), shaft Ø 12 x 40 mm, L = 80 mm	131342

One tool with 2 functions



P-System CNC
shaft tool cutter
with 5-axis



P-System CNC
shaft tool cutter
with 3-axis

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 shaft 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 Ø 15 mm with short centering point	136312

	Art. No.
Cabineo cutter Ø 10 mm	136310

	Art. No.
Cabineo cutter Ø 12 mm	136311

Cabineo drills for triple aggregate*

	Art. No.
Cabineo drills for aggregate Ø 15 mm RH carbide tipped (right hand rotation)	136314

	Art. No.
Cabineo drills for aggregate Ø 15 mm LH carbide tipped (left hand rotation)	136315

* Benz: 2x 136314 and 1x 136315 (MULTI V3 CABINEO)
Atemag: 1x 136314 and 2x 136315 (VERTINEO Cabineo Drilling)

« *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



Accessories / Spare Parts

P-System



P-System



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



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

Clamex P



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



Allen key	Art. No.
4 mm, 75 x 55 mm	271945
4 mm, 120 x 50 mm	271945A



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



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



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



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



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



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

Accessories / Spare Parts

P-System



Combination CNC and Zeta P2



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



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

Tenso P



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



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

Divario P



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



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



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



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

Zeta P2



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



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



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



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



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

Batteries



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



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



	Art. No.
Battery charger ASC 55	123100

Accessories / Spare Parts

Lamello System



Lamello System



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



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



Systainer3 M187	Art. No.
Systainer3 M187, empty	331579
Insert with two partitions for Systainer3 M 187	360023
Divider for insert 360023	360019
Insert Systainer3 M187 for Zeta P2/Top21/Classic X	360020



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



	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	132106



Groove cutter HW (carbide),	Art. No.
Ø 78 × 3 × Ø 22 mm	
Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X	132009



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 × 4 × Ø 22 mm	
Z2 + V2, 4 screw holes with hub for Zeta P2/Top 21/Classic X	132001
Set of 4 pieces	132111
Countersunk screws	352408T
Allen key, 4 mm	271959L



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 × 4 × Ø 22 mm	
Z4 + V4, 4 screw holes without hub, with spacer for Zeta P2/Top 21/Classic X	132130
Set of 10 pieces main teeth	132134
Set of 10 pieces scoring teeth	132135
Replcement set, 4 scoring teeth + 4 main teeth	132133
Screws	352130
Torx key	352133



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	
Z4 + V4, 4 screw holes for Top 20/Top 21/Classic X	132108
Set of 10 pieces scoring teeth	132137
Set of 10 pieces main teeth	132136
Replcement set, 4 scoring teeth + 4 main teeth	132114



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

Batteries



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



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



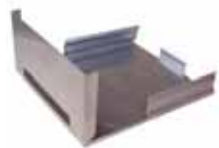
	Art. No.
Battery charger ASC 55	123100

Accessories/ Spare Parts

Lamello System



Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine for Zeta P2/Top 21/Classic X	251057



Carbide tipped saw blades HW (carbide) for expansion gaps, Ø 100 × 2.4 × Ø 22 mm	Art. No.
Z20, 4 screw holes, 2 spacers for Zeta P2/Top 21/Classic X	132350



Accessories for saw blades	Art. No.
Spacer, Ø 40 × 1 × Ø 22 mm with screw holes for Zeta P2/Top 21/Classic X	322510



	Art. No.
Flange M8 to saw blades	252502



Clamex S drill jig	Art. No.
Clamex S drill jig 30° – 150°, with 6 mm drill complete	125240



Clamex S-18 set	Art. No.
Drill jig for 30° – 150° incl. drill and carbide tipped groove cutter with drill jig and cutter includes 1 set 125240 and 1 piece 132108	125250

Clamping set parts



Clamps	Art. No.
5 m clamping strap	175005
8 m clamping strap	175008
10 m clamping strap	175010



Buckle for clamps	Art. No.
1 piece, without strap	175060



Polyester strap for clamps	Art. No.
1 roll of 50 m	175050



	Art. No.
Per meter m ¹	335000



Tension hooks	Art. No.
2 pieces	175200



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

Accessories / Spare Parts

Drilling System



Cabineo



Cabineo installation tool	Art. No.
With handle, incl. hex bit 1/4"	256300



	Art. No.
Cabineo hex bit 1/4"	276312



	Art. No.
Cabineo hex bit 1/4" GL 80 mm	276308
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	276309



Cabineo drill/cutter	Art. No.
Cabineo drill Ø 15 mm with short centering point	136312



	Art. No.
Cabineo cutter Ø 10 mm	136310



	Art. No.
Cabineo cutter Ø 12 mm	136311



	Art. No.
Cabineo drills for aggregate* Ø 15 mm RH carbide tipped (right hand rotation)	136314



	Art. No.
Cabineo drills for aggregate* Ø 15 mm LH carbide tipped (left hand rotation)	136315



Cabineo cover caps	Art. No.	Art. No.
	100 pieces	2000 pieces
RAL 9003 signal white	186350S	186351S
RAL 9010 pure white	186350W	186351W
RAL 9018 papyrus white	186350P	186351P
RAL 1015 light ivory	186350H	186351H
RAL 1011 brown beige	186350B	186351B
RAL 8007 fawn brown	186350R	186351R
RAL 7040 window grey	186350F	186351F
RAL 7005 mouse grey	186350A	186351A
RAL 9005 jet black	186350T	186351T
Metal look, silver	186350C	186351C
Metal look, nickel	186350N	186351N
Metal look, dark steel	186350D	186351D



Cabineo insert insertion tool	Art. No.
For insert M6	276310

Accessories / Spare Parts

Drilling System



Invis Mx2



Invis Mx2 screw bit	Art. No.
1 piece	6112205



Invis Mx2 MiniMag	Art. No.
Incl. screw bit	6100301



Invis Mx2 flexible shaft	Art. No.
1 piece	6100204



Invis Mx2 insertion jig	Art. No.
For studs 14 mm	6112333



Invis Mx2 insertion bush for Rasto	Art. No.
For studs 14 mm	6112330

Rasto



Rasto wood drill bit with centering tip	Art. No.
Ø 5 mm	6100160
Ø 6 mm	6106161
Ø 8 mm	6108060
Ø 10 mm	6110162
Ø 12 mm	6112060



Rasto depth adjuster	Art. No.
Ø 5 mm	6100059
Ø 6 mm	6100063
Ø 8 mm	6100060
Ø 10 mm	6100064
Ø 12 mm	6100061



Invis Mx2 spacer	Art. No.
For Rasto	6112331



Rasto perforated plate	Art. No.
1 piece	6160000



Rasto drill bush	Art. No.
Ø 5 mm	6100065
Ø 6 mm	6100056
Ø 8 mm	6100057
Ø 10 mm	6100067
Ø 12 mm	6100058



Rasto fixing screw	Art. No.
4.5 x 35 mm, TX 25	6560450



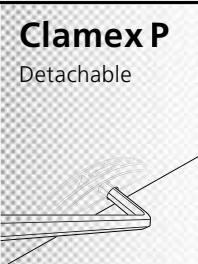

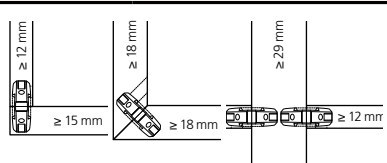
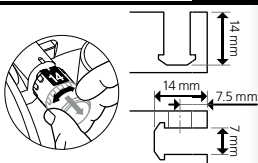

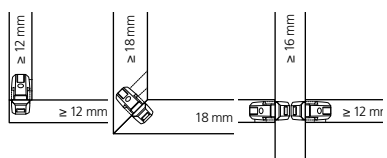
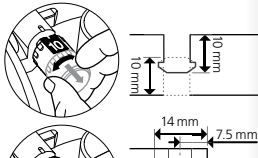

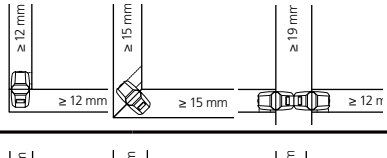
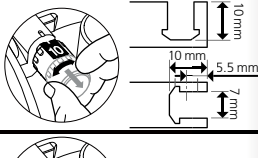

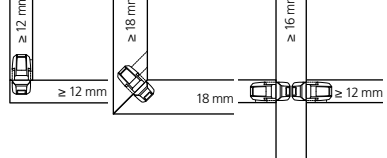
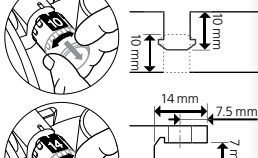


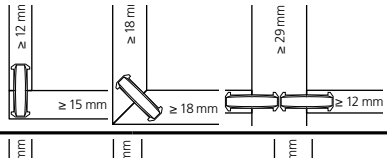
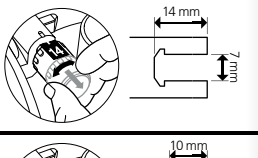

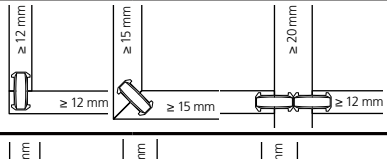
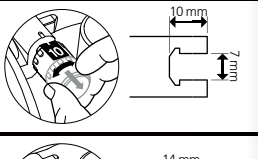

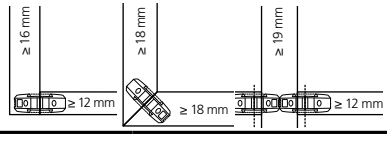
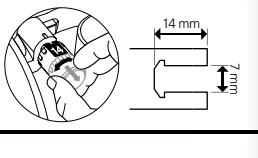


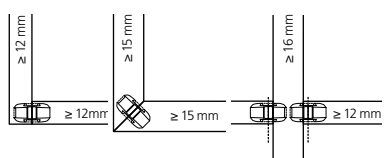
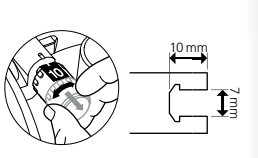


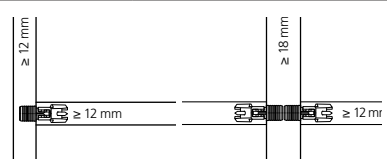
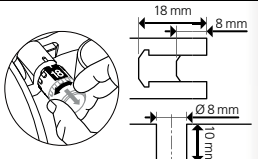
Rasto positioning bolts	Art. No.
Ø 5 x 40 mm	6160001



Rasto connection rod 500 mm	Art. No.
Two-part	6160601

Overview of connectors


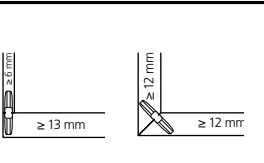
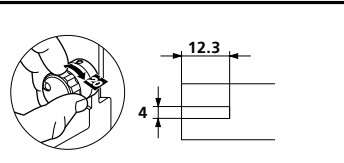

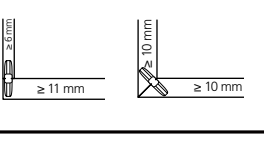
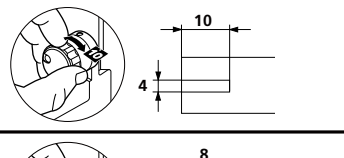

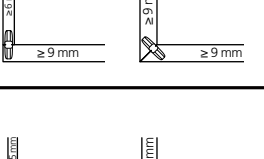
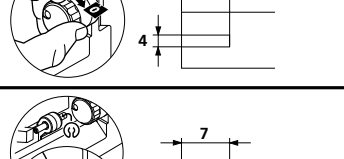

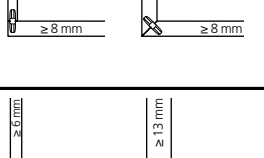
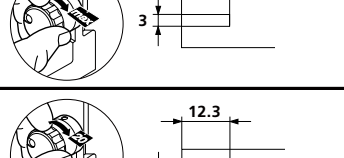

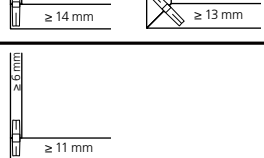
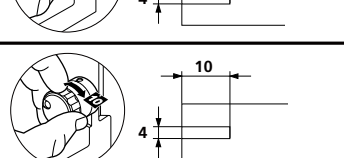

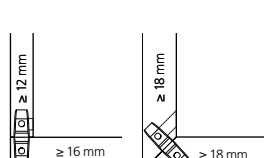
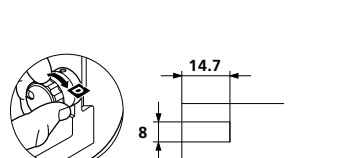

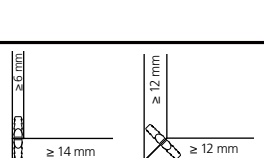
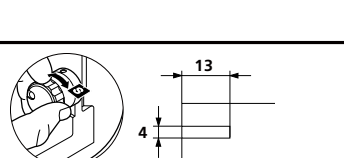

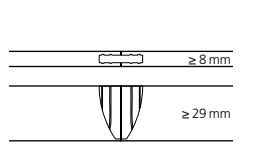
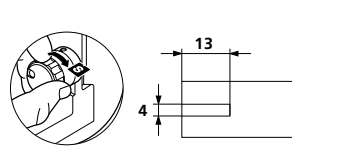

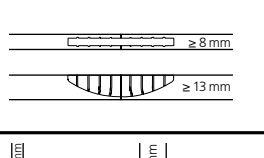
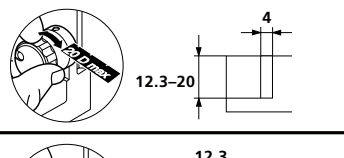
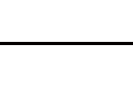
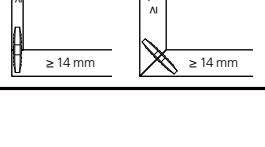
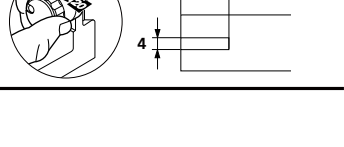
P-System

	Clamex P-14 	Pairs	Art. No.		
		80	145334		
		300	145346		
	Clamex P-14/10 Medius 	80	145370		
		300	145371		
		1000	145357		
	Clamex P-10 	80	145372		
		300	145373		
		1000	145374		
	Clamex P-14/10 Flexus 	80	145315		
		300	145316		
		1000	145317		
	Bisco P-14 	80	145301		
		300	145302		
		1000	145303		
	Bisco P-10 	80	145304		
		300	145305		
	Tenso P-14 	80	145415		
		300	145425		
		1000	145435		
	Tenso P-14 preload clip 	Pieces	Art. No.		
		300	145426		
		1000	145436		
	Tenso P-10 	Pairs	Art. No.		
		80	145418		
		300	145428		
		1000	145438		
	Divario P-18 	80	145550		
		300	145560		
		1000	145570		

Overview of connectors

Lamello System



Glueing	Original wooden biscuit 20 	Pieces	Art. No.		
		1000	144020		
	Original wooden biscuit 10 	1000	144010		
	Original wooden biscuit 0 	1000	144000		
	Original wooden biscuit H9 	1000	144009		
Detachable	C20 	250	145010		
	C10 	300	145012		
	Clamex S-18 	Pairs	Art. No.		
		18	145231		
		80	145236		
		300	145241		
Inserted	Simplex 	1000	145251		
	E20-H 	Pieces	Art. No.		
		80	145021		
		400	145026		
		1200	145028		
	E20-L 	80	145022		
		400	145025		
		1200	145027		
	K20 	80	145001		
		250	145000		

Overview of connectors

Drilling System

- 1 Cabineo 8: X = 8 mm, black screw
2 Cabineo 12: X = 12 mm, nickel-plated screw
3 Cabineo 8 M6*: X = 8 mm, yellow galvanised screw
* Metric ISO thread DIN 13-1

<div>Cabineo</div> <div>Detachable</div> <div></div>	<div>Cabineo 12</div> <div></div>	<div>Pieces</div> <div>500</div> <div>2000</div>	<div>Art. No.</div> <div>186320</div> <div>186321</div>	<div></div>	<div>On the surface 1, 2, 3</div> <div></div> <div>Installation options</div> <div></div> <div>Machining options</div> <div></div> <div>Flush with the surface 1, 2, 3</div> <div></div> <div>Installation options</div> <div></div> <div>Machining options</div> <div></div> <div>Flush cover cap 1, 2, 3</div> <div></div> <div>Installation options</div> <div></div> <div>Machining options</div> <div></div> <div>HPL on the surface 3</div> <div></div> <div>Installation options</div> <div></div> <div>Machining options</div> <div></div>											
	<div>Cabineo 12 black</div> <div></div>	<div>500</div> <div>2000</div>	<div>186330</div> <div>186331</div>													
	<div>Cabineo 8</div> <div></div>	<div>500</div> <div>2000</div>	<div>186310</div> <div>186311</div>													
	<div>Cabineo 8 black</div> <div></div>	<div>500</div> <div>2000</div>	<div>186340</div> <div>186341</div>													
	<div>Cabineo 8 M6</div> <div>metric thread M6</div> <div></div>	<div>500</div> <div>2000</div>	<div>186315</div> <div>186316</div>													
	<div>Cabineo 8 M6 black</div> <div>metric thread M6</div> <div></div>	<div>500</div> <div>2000</div>	<div>186345</div> <div>186346</div>													
	<div>Cabineo insert</div> <div>M6 × 12.3</div> <div></div>	<div>100</div> <div>500</div>	<div>186370</div> <div>186371</div>	<div></div> <div>Cabineo insert M6 × 12.3 for material thickness 14–16 mm</div>												
	<div>Cabineo insert</div> <div>M6 × 15.3</div> <div>for centre panels</div> <div></div>	<div>100</div> <div>500</div>	<div>186375</div> <div>186376</div>	<div></div> <div>Cabineo insert M6 × 15.3 for material thickness 17–25 mm</div>												
	<div><table><thead><tr><th></th><th>X [mm]</th><th>Y = Ø [mm]</th></tr></thead><tbody><tr><td>Cabineo 8 M6*</td><td>8</td><td>5</td></tr><tr><td>Insert M6 × 12.3</td><td>13.5</td><td>8</td></tr><tr><td>Insert M6 × 15.3</td><td>16.5</td><td>8</td></tr></tbody></table><div>* Metric ISO thread DIN 13-1</div></div>					X [mm]	Y = Ø [mm]	Cabineo 8 M6*	8	5	Insert M6 × 12.3	13.5	8	Insert M6 × 15.3	16.5	8
		X [mm]	Y = Ø [mm]													
Cabineo 8 M6*	8	5														
Insert M6 × 12.3	13.5	8														
Insert M6 × 15.3	16.5	8														

