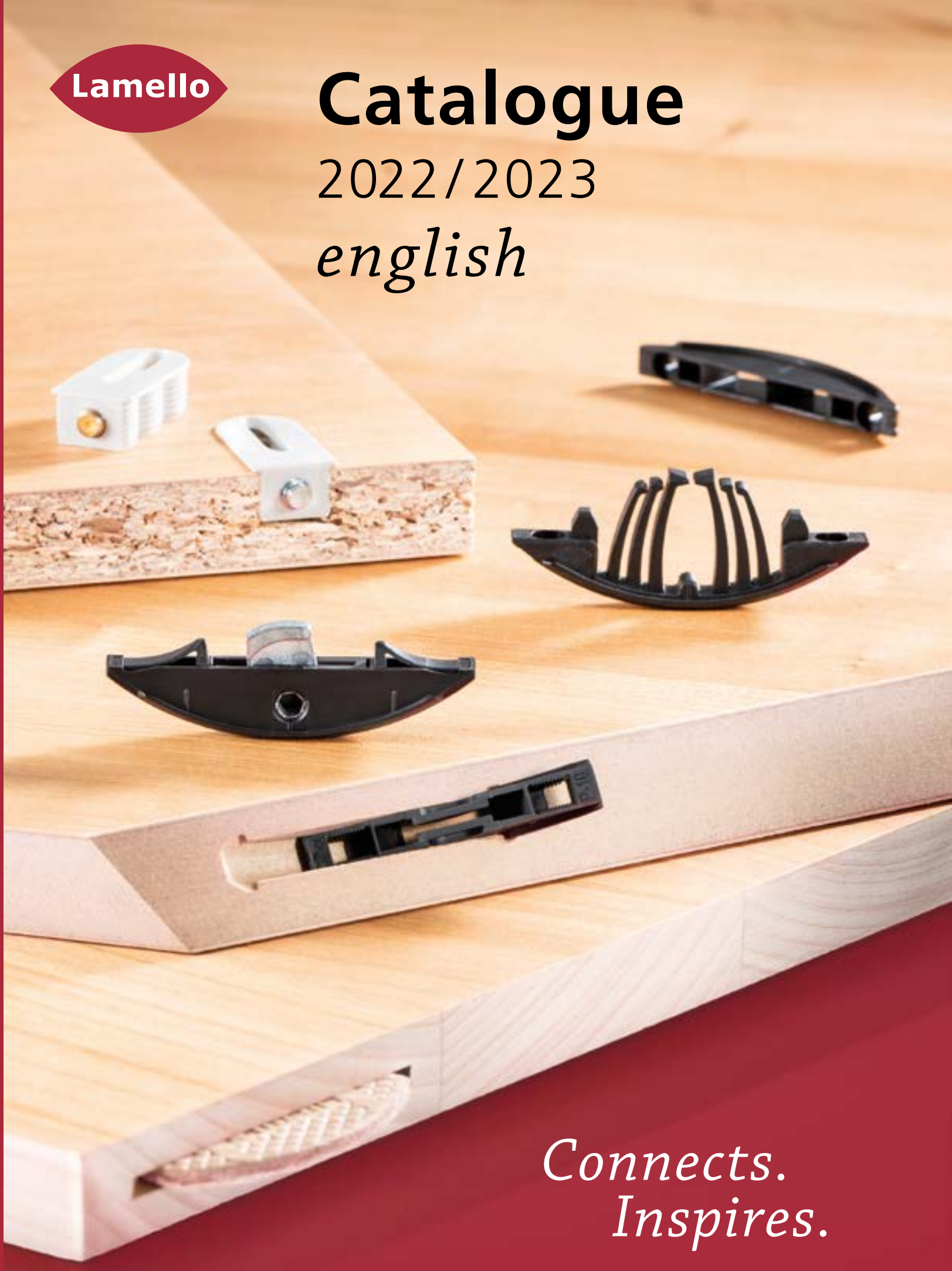
Lamello

Catalogue

2022/2023

english



Connects.
Inspires.

« 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

Content

Lamello 6 – 19

Systems, P-System, Lamello System, Drilling System – Overview 20 – 21

P-System 22 – 65

The time-saving joining system with form-locking anchoring

P-System – Overview 24 – 25

P-System – Applications 28 – 31

Clamex P-14 – Detachable furniture connector 32 – 33

Clamex P-14/10 Medius – Detachable connector for centre panels for materials from 16 mm thickness 34 – 35

Clamex P-10 – Detachable connector for materials from 12 mm thickness 36 – 37

Clamex P-14/10 Flexus – Detachable furniture connector with flexible positioning pins 38 – 39

Clamex P-14 CNC – Detachable furniture connector with precise alignment 40 – 41

Advantages of the Clamex P – Detachable furniture connector 42

Bisco P – Aligning element, suitable for the P-System groove 44 – 45

Tenso P-14 – Self-clamping connector for glueing materials from 16 mm thickness 46 – 47

Tenso P-10 – Self-clamping connector for glueing thin materials from 12 mm thickness 48 – 49

Divario P-18 – Self-clamping, invisible connector for slide insertion 50 – 51

Zeta P2 – The machine for the evolving P-System, saving you time daily! Differentiate your products from the standard! 52 – 53

Accessories – Zeta P2 54

Connected in seconds ... 55
Without waiting time, clamps, or secondary processes, glued and clamped in 40 seconds

Technical information 58 – 61

Accessories/Spare Parts – P-System 62 – 65

Lamello System 66 – 107

The original for efficient, intuitive and precise joints

Lamello System – Overview 68 – 69

Lamello System – Applications 72 – 75

Original wood biscuit – The original wooden biscuit that always fits 76 – 77

E20 – The self-clamping element 78 – 79

Clamex S-18 – Detachable, flexible and simple. Installation in an 8 mm groove with screws 80 – 81

K20 – The clamping element, which holds the workpiece in position 82 – 83

C20/C10 – The transparent element 84 – 85

Simplex – Detachable slide-in connector 86 – 87

Minicol – The all purpose glue applicator 88 – 89

Clamping set – Clamping system for cabinets 90 – 91

Classic X – The original biscuit joiner for every workshop 92 – 93

Top 21 – The original biscuit joiner with height adjustable blade from the inventor 94 – 95

Accessories – Classic X and Top 21 96 – 97

Original Lamello biscuit joiners – These properties make the difference 98

Versatile use ... 99
With various connecting elements

Technical information 100 – 103

Accessories/Spare Parts – Lamello System 104 – 107

Drilling System 108 – 141

Unique drilling systems for high demands on productivity and aesthetics

Drilling System – Cabineo, Invis Mx2 – Overview 110 – 111

Drilling System – Applications 114 – 117

Cabineo 12 – Time-saving cabinet connector for corner joints from 13 mm 118 – 119

Cabineo 8 – Time-saving cabinet connector for centre panels from 16 mm 120 – 121

Cabineo 8 M6 – Wear-resistant cabinet connector for various materials and increased strength 122 – 123

Cabineo insert M6 – For repeated assembly and disassembly without loss of strength 124 – 125

Advantages of Cabineo – Simple, fast and strong 126

Cabineo compared with cam and dowel 127

Invis Mx2 – Magnet-driven connecting fittings 128 – 131

Rasto drill jig – Universal drill jig without measuring or marking 132 – 133

Technical information 134 – 137

Accessories/Spare Parts – Drilling System 138 – 141

Networked production 142 – 165

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

Components for the successful integration of Lamello connection systems into your networked production 145

Networked production – Overview of the production process 146 – 147

Service overview – Lamello's planning and machining partners 148 – 151

P-System with CNC – Joining methods and requirements for CNC machines/machining options 152 – 155

P-System equipment options – For CNC machines for particularly efficient machining 156 – 157

Ideas for standardising – 158
The machining on a CNC machine

Cabineo with CNC – Specific equipment options for CNC machines for Cabineo 160 – 161

CNC tools – For the P-System 162 – 163

CNC tools – For Cabineo 164

Accessories 166 – 183

Accessories/Spare Parts – P-System 168 – 171

Accessories/Spare Parts – Lamello System 172 – 175

Accessories/Spare Parts – Drilling System 176 – 179

Overview of connectors 180 – 183

Disclaimer regarding load limits 183

Subject to modifications and amendments

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Together, dynamic and reliable

Far-reaching. Close to home.

At home right across the globe.

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

Headquarter:
- Switzerland

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

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

We are here for you!

Personal consultation

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 consultation on site.

Latest news

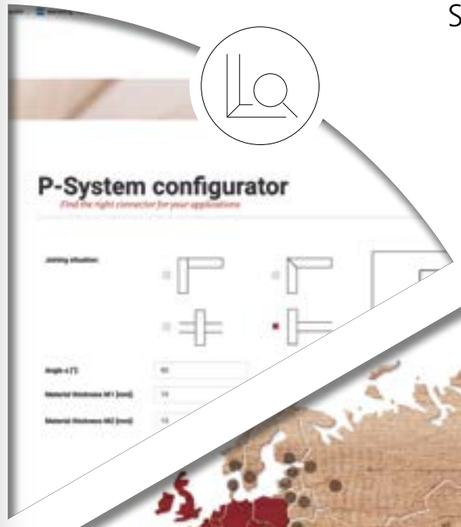
Stay up-to-date and sign up for our Lamello News and e-newsletter. Become part of the Lamello community on social media and be inspired, or visit our stand at one of the numerous trade fairs. We are always happy to hear from you.

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 milling tool and machining with the CNC machine: more than 40 industry-leading partner companies support the efficient use and integration of our products into your production.

Looking back. Thinking ahead.

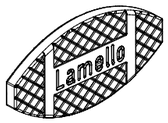
Every milestone starts with an idea. However, revolutionary ideas do not just come about easily. It is only through many years of practical knowledge and intensive development working together with our customers that we have been able to constantly come up with new solutions, and in so doing decisively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

1944

Joinery founded
by Hermann Steiner
in Liestal

1955

Lamello System
invented by
Hermann Steiner

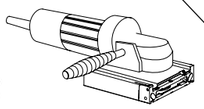


1958

Invention:
First stationary Lamello
biscuit joiner LO1

1968

Invention:
First hand-operated
Lamello biscuit joiner



1969

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

1970

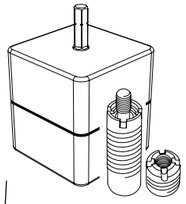
Invention:
Wood repair system

1981

Invention:
Tanga 150,
window cutter

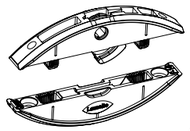
2001

Invention:
Invis
Interzum award



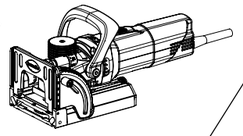
2009

Invention:
Clamex P
Interzum award



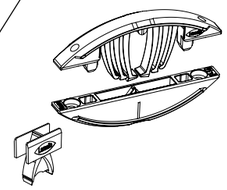
2010

Invention:
Zeta, power tool for
the P-System



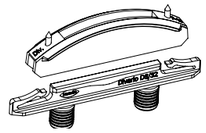
2013

Invention:
Tenso P-14
Interzum award



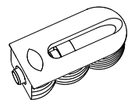
2015

Invention:
Divario P-18
Interzum award



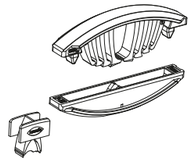
2017

Invention:
Cabineo CNC connector



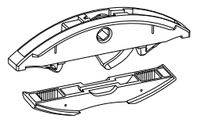
2019

Invention:
Tenso P-10
Interzum Award



2020

Invention:
Clamex P-14/10 Flexus
Interzum award



In the centre: the customer

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

Nils Ingwersen
Process Planning Manager
Carpentry Mario Beck, Hamburg, Germany

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

Roger Schneider
Site Manager, Tschudin AG, Münchenstein, Switzerland

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

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

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

Jeffrey De Smet
Self-employed carpenter, Artisanal interior furniture maker, Belgium

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

Andreas Kuhlmann
Managing Director, Adolf Kuhlmann furnishing workshops, Schwerin, Germany

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

John Hampton
Production Manager, Artichoke, Somerset, England

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

Günther Schweiger
Speedmaster Managing Director, Eberstalzell, Austria

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

Joining technology with 3 systems

P-System

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

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

Lamello System

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

Drilling System

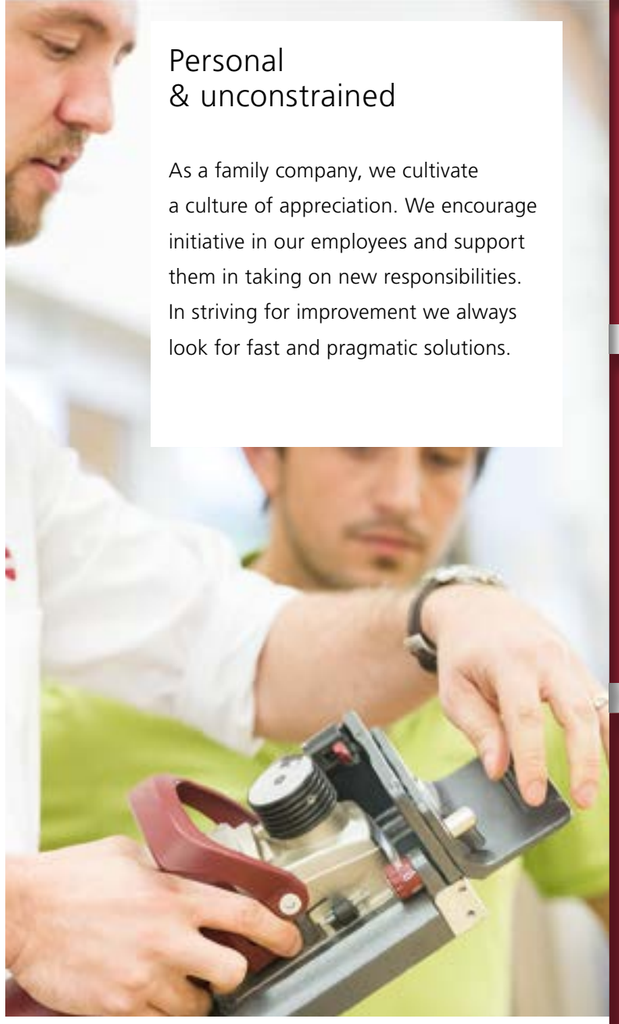
The **Cabineo** is a one-piece furniture connector and is installed into a drilled or routed shape. No edge drilling is necessary – the machining happens solely in the surface. Due to this, Cabineo can be used with all kinds of CNC machines, including very simple 3-axis and nesting machines.

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

Our strengths

Independent & self-determined

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

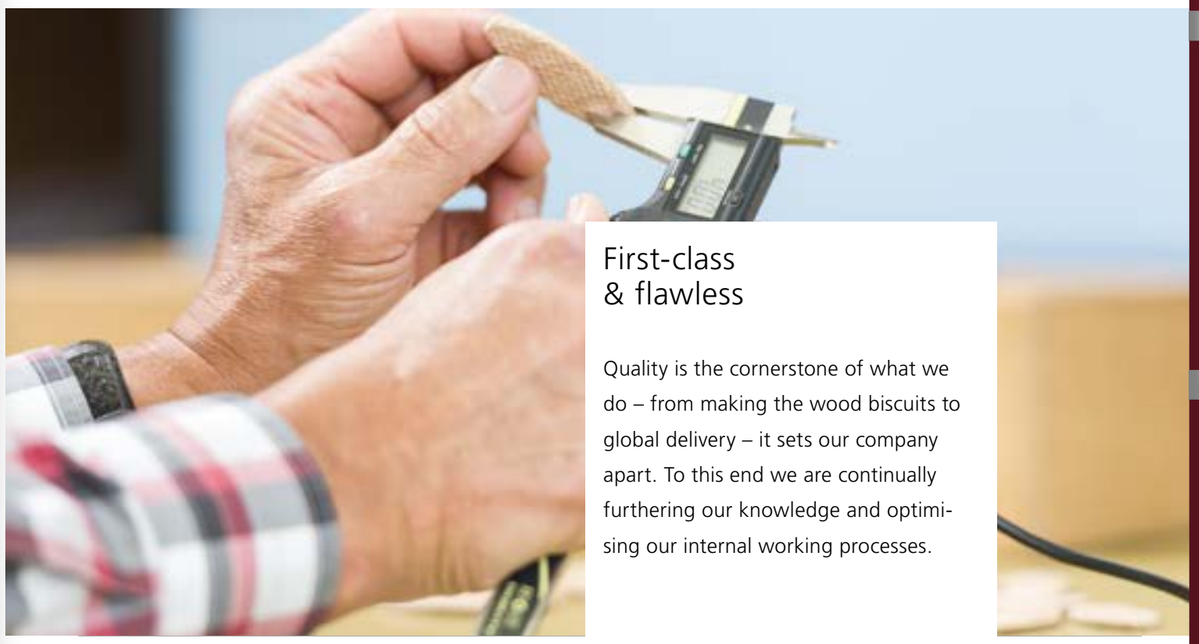


Personal & unconstrained

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

Inventive & imaginative

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



First-class & flawless

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

Systems

– P-System
– Lamello System
– Drilling System

Overview

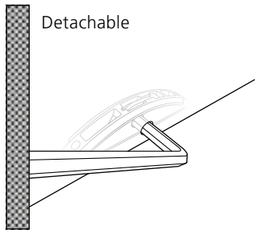
P-System

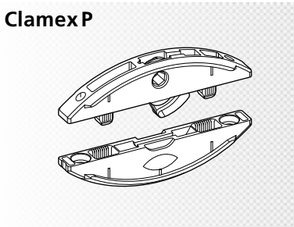
Joining methods	Connector

With P-System groove cutter

Detachable

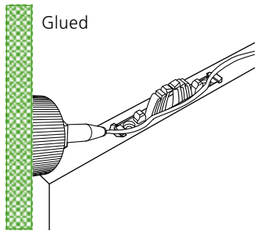
Clamex P

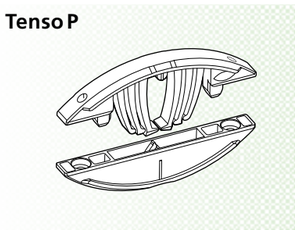




Glued

Tenso P





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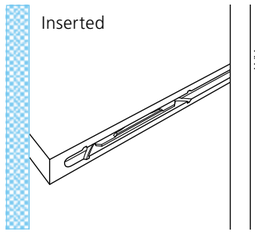
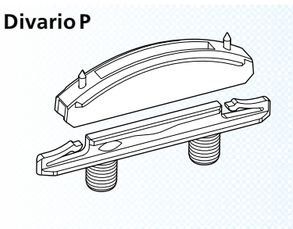


Divario P



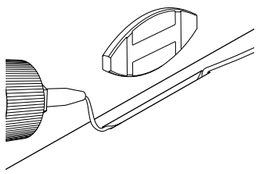
Lamello System

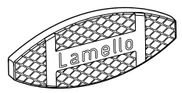
Joining methods	Connector

With 4 mm Lamello System groove cutter

Glued

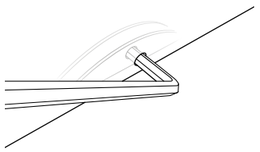
Original wood biscuit

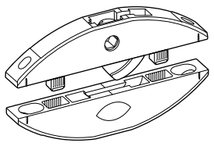




Detachable

Clamex S-18





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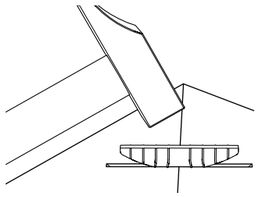
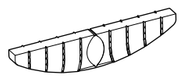
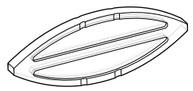


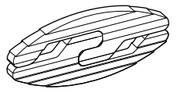
E20



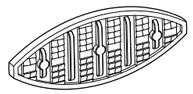
C20



Simplex



K20

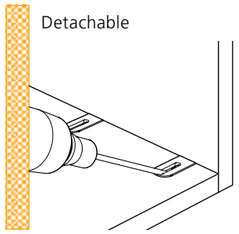


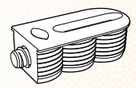
Drilling System

Joining methods	Connector

Detachable

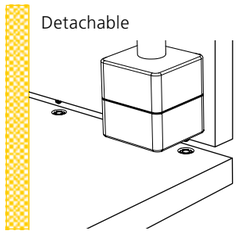
Cabineo

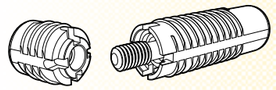




Detachable

Invis Mx2

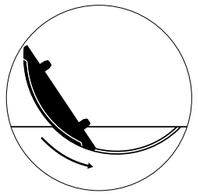




P-System

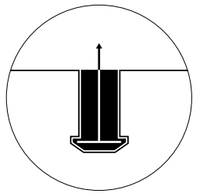
The time-saving joining system
with form-locking anchoring

Features



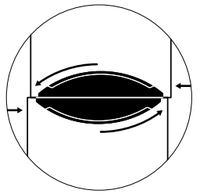
Fast installation

Inserting instead of screwing or glueing



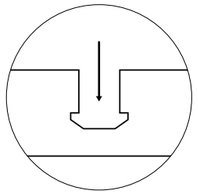
Strong

Form-locking anchorage across large surface areas



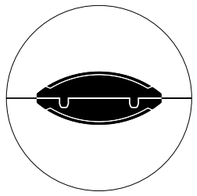
Lateral tolerance

Perfect, flush alignment of both workpieces



Shallow depth

Minimal cutting depth with maximum tensile strength



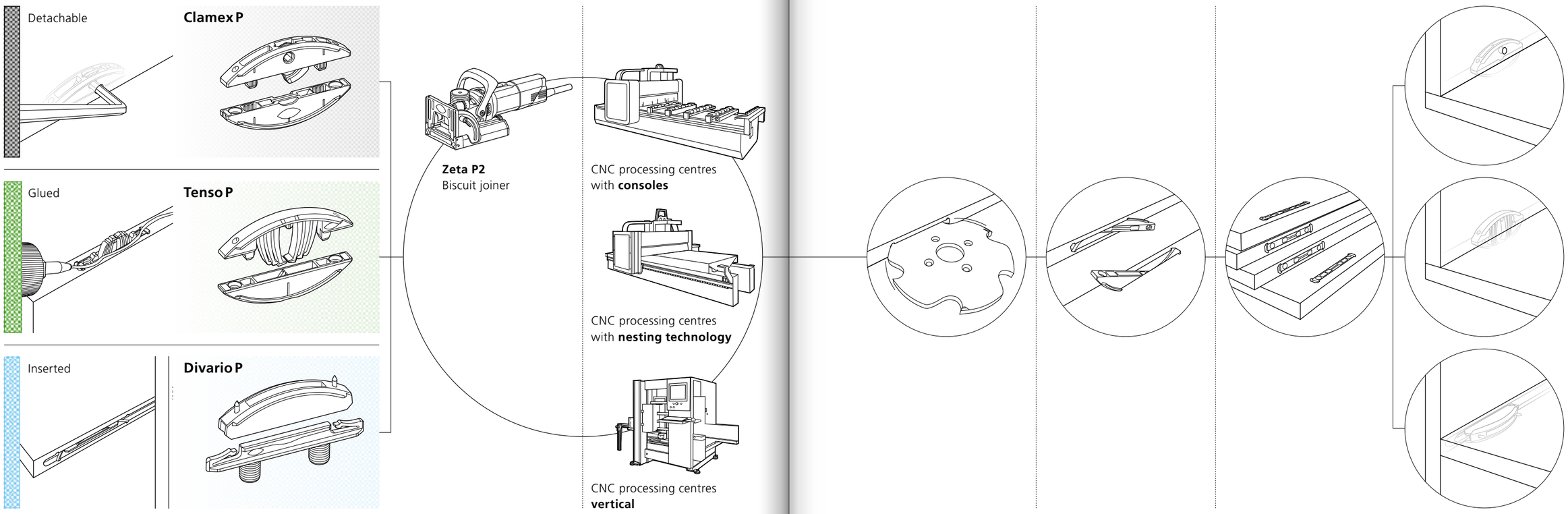
No twisting

The positioning pins prevent twisting without additional dowels

P-System

Overview

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



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

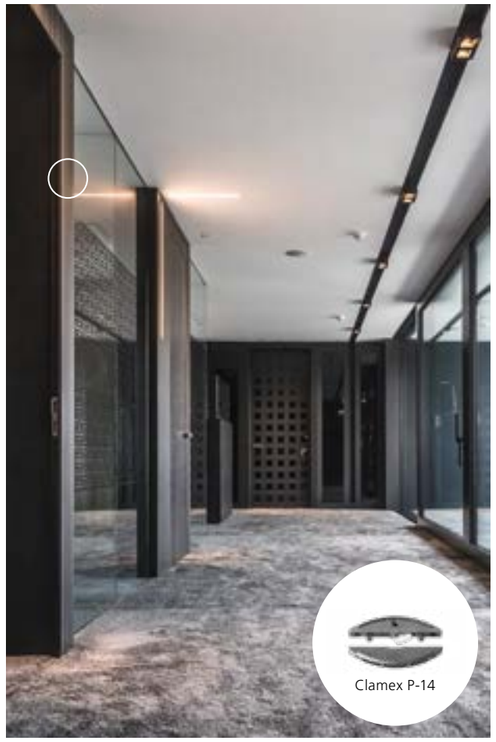
Hannes Kofler, Owner and Managing Director, Joinery workshop Kofler, Italy

P-System

Applications

Furniture manufacturing

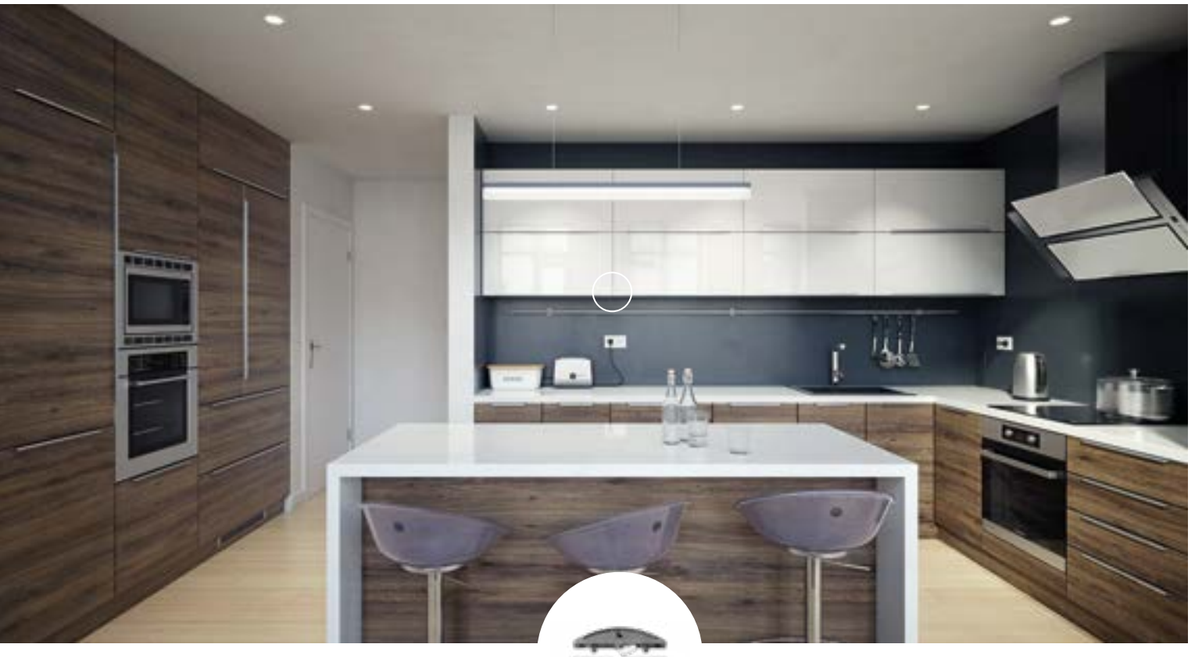
Interior fitting



P-System

Applications

Kitchen manufacturing



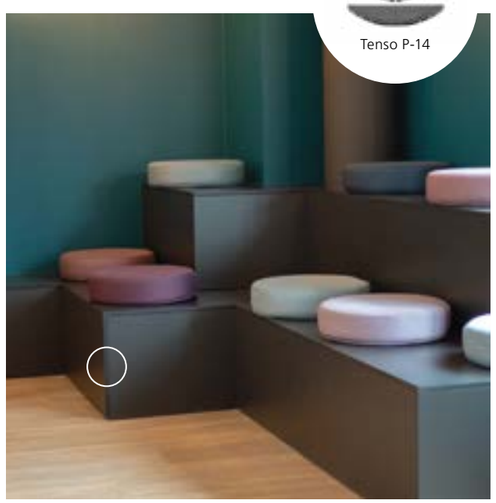
Clamex P-14

Commercial joinery

Tenso P-10

Tenso P-14

Clamex P-14 CNC

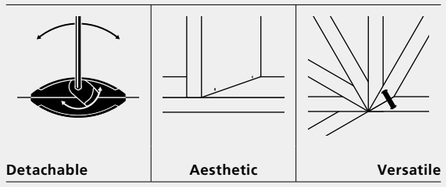


Shop fitting

Clamex P-14

Detachable furniture connector

Features



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

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

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

Articles

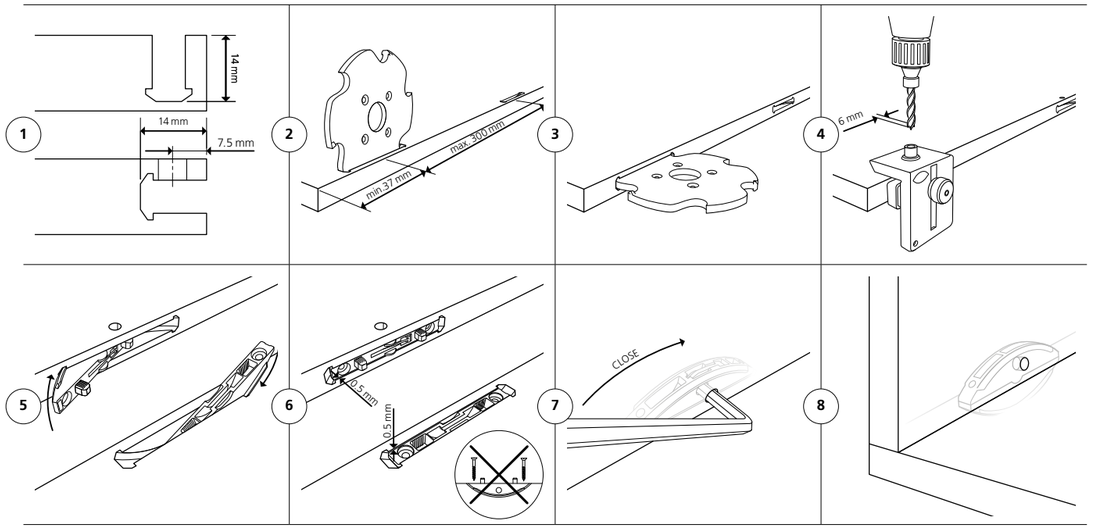
interzum Award

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

www.lamello

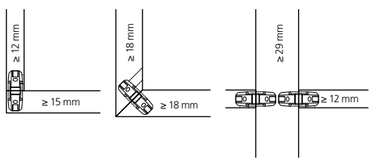
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



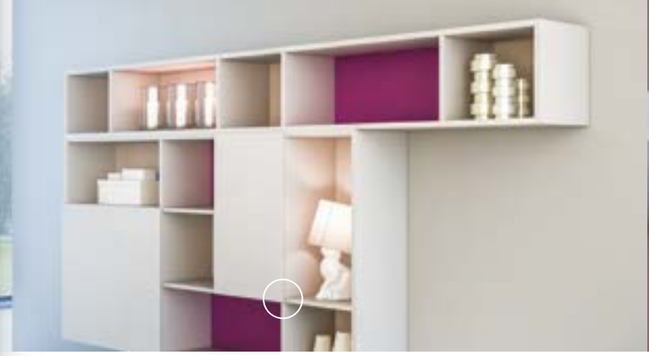
Size	64 × 27 × 9.7 mm		
Cutter	Ø 100.4 × 7 × Ø 22 mm		
Material connector	Fiberglass reinforced plastic		
Material of lever	Zinc die cast		
Installation tolerance	Long. ± 1 mm/radial ± 1 mm		
Tensile strength (N) Up to	MDF 900[1]	Particle board 800[1]	Beech 1000[1]
Material range	Particle board, MDF,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

90° and 45° cover caps are available in a variety of colours **PAGE 63** | See **PAGE 58** for technical specifications

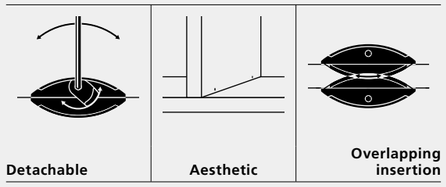
[1] See comment on load limits on **PAGE 183**

Clamex P-14/10 Medius

Detachable connector for centre panels for materials from 16 mm thickness



Features



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

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

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

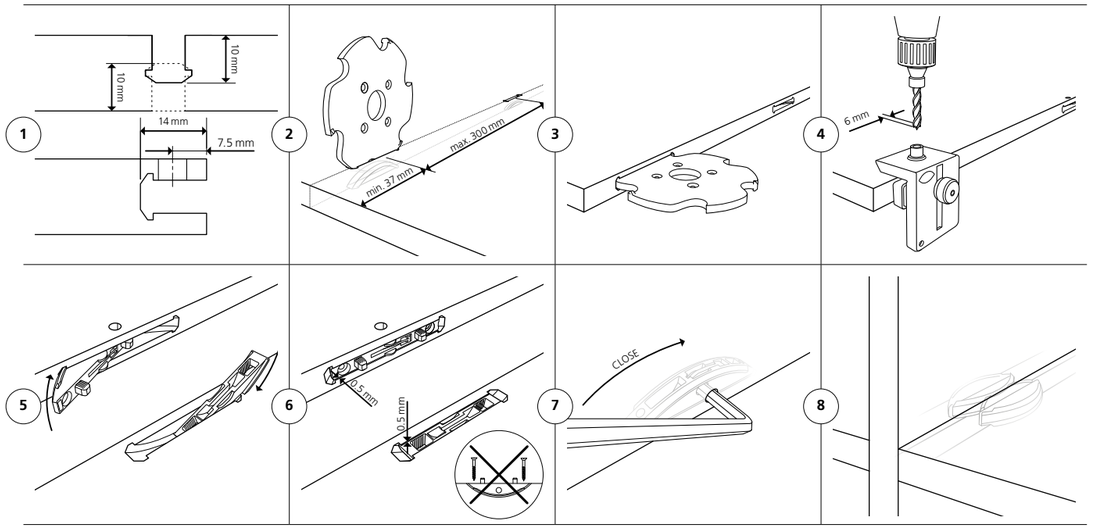
Articles

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

www.lamello

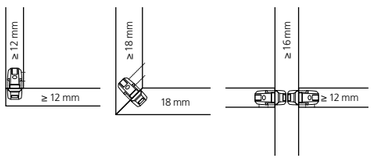
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Size	64 × 13.5 × 9.7 mm 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.		

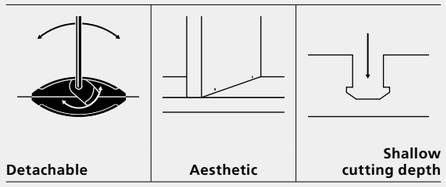
90° and 45° cover caps are available in a variety of colours **PAGE 63** | See **PAGE 58** for technical specifications

[1] See comment on load limits on **PAGE 183**

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**

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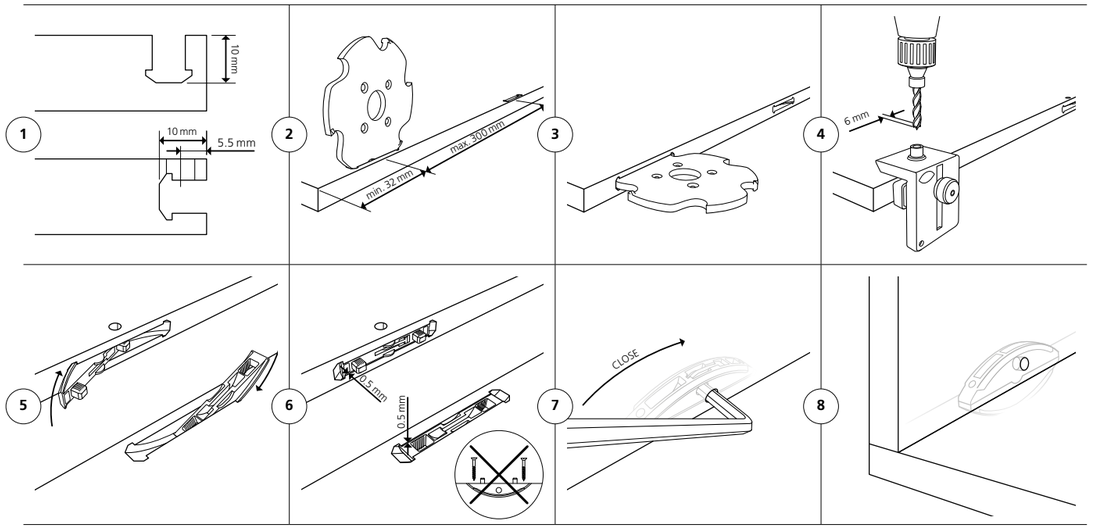
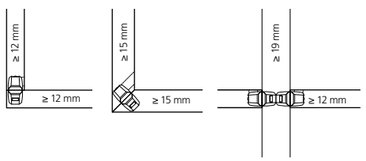
Function



Technical data

Joining methods



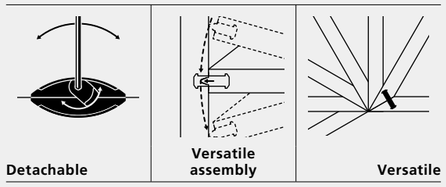
Size	52 × 19 × 9.7 mm		
Cutter	Ø 100.4 × 7 × Ø 22 mm		
Material connector	Fiberglass reinforced plastic		
Material of lever	Zinc die cast		
Installation tolerance	Long. ± 0.5 mm/radial ± 0.5 mm		
Tensile strength (N) Up to	MDF 600[1]	Particle board 600[1]	Beech 900[1]
Material range	Particle board, MDF,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

See **PAGE 58** for technical specifications | [1] See comment on load limits on **PAGE 183**

Clamex P-14/10 Flexus

Detachable furniture connector
with flexible positioning pins

Features



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

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

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

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

Articles

interzum Award

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

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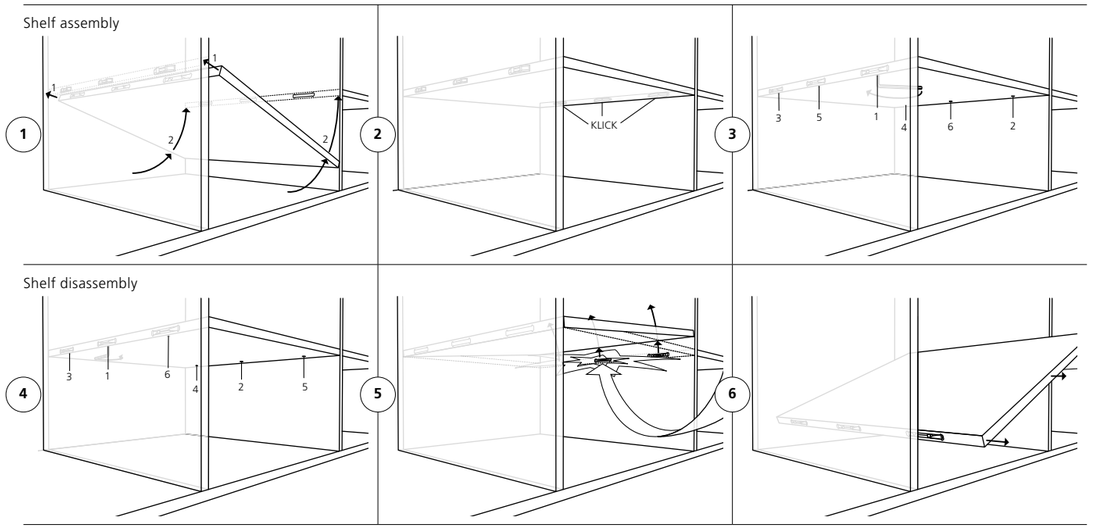
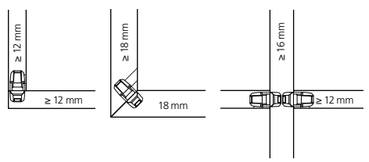
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



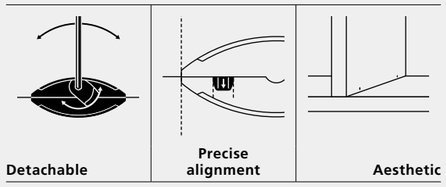
Size	64 × 13.5 × 9.7 mm 52 × 7.5 × 9.7 mm		
Cutter	Ø 100.4 × 7 × Ø 22 mm		
Material connector	Fiberglass reinforced plastic		
Material of lever	Zinc die cast		
Installation tolerance	Long. ± 0 mm/radial ± 1 mm		
Tensile strength (N) Up to	MDF 720[1]	Particle board 600[1]	Beech 810[1]
Material range	Particle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

See **PAGE 59** for technical specifications | [1] See comment on load limits on **PAGE 183**

Clamex P-14 CNC

Detachable furniture connector
with precise alignment

Features



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

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

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

Articles

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

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

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

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

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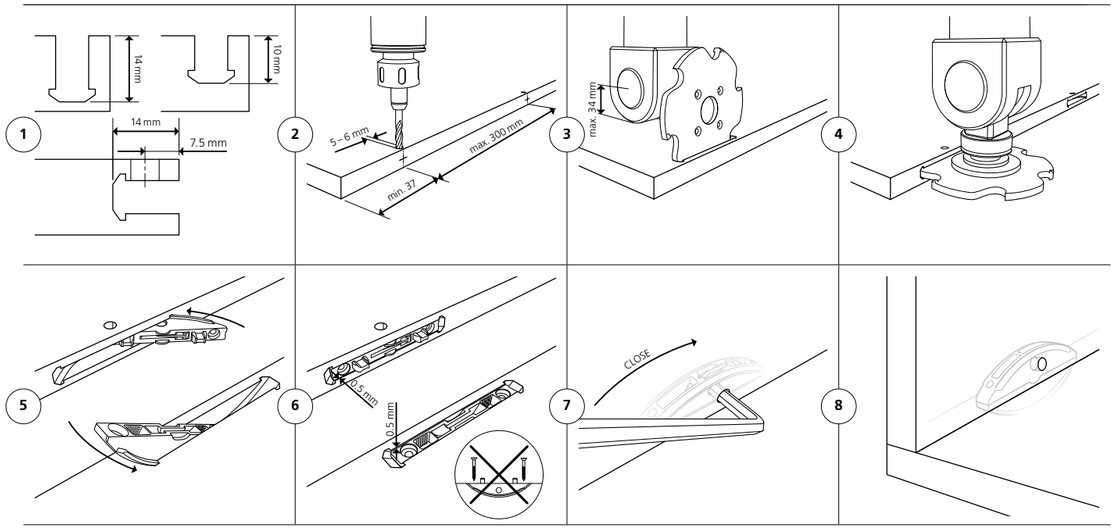
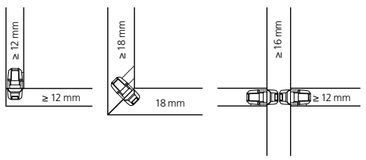
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

* See **PAGE 59** for technical specifications

Advantages of the Clamex P

Detachable furniture connector

1. Advantages in production

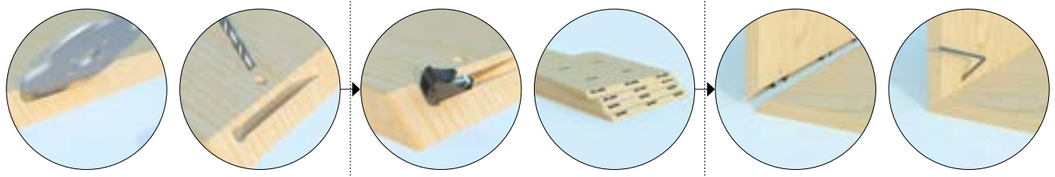
2. Advantages in transportation

3. Advantages in assembly

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

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

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



1. Machining with a Zeta P2 or CNC machine

2. Only one tool change

3. Tool-free connector installation

4. Flat pack delivery

5. Versatile for all angles and joining situations

6. Strong and detachable connection

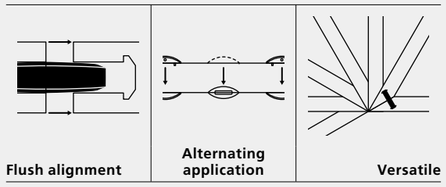
« The P-System saves us an enormous amount of time in production. Our fitters are big fans of Clamex and now they don't want to work with anything else. »

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.

Artikel

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**

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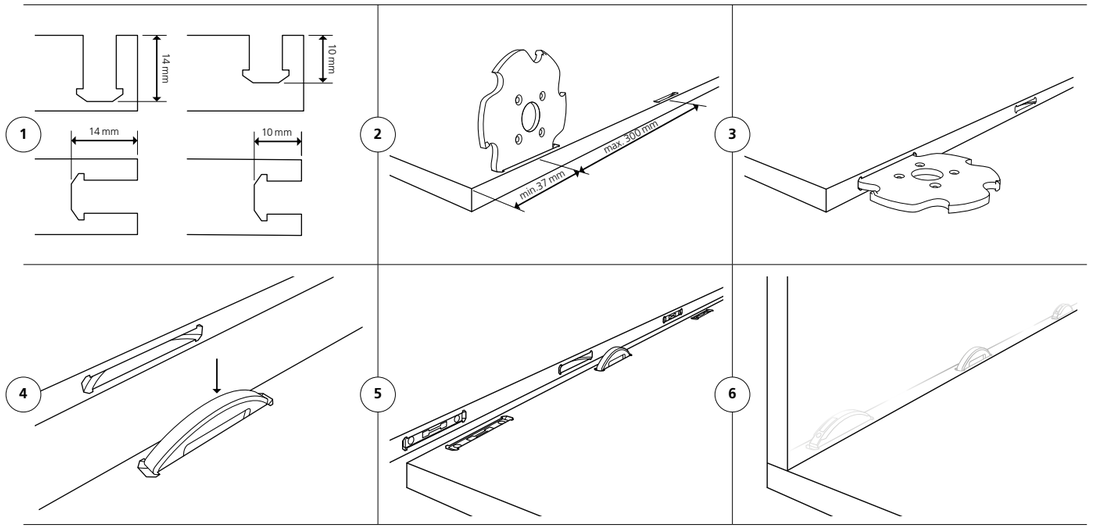
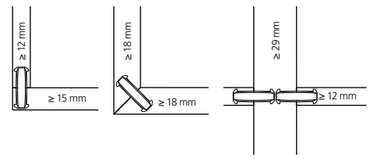
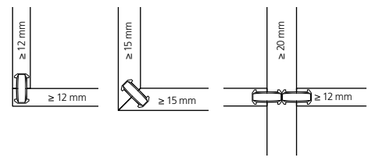
Function



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*

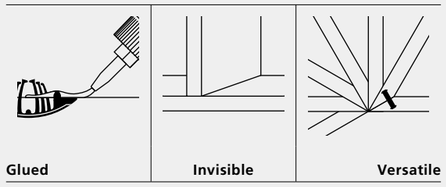
Bisco P-10	
Size	52 × 19 × 7 mm
Cutter	Ø 100.4 × 7 × Ø 22 mm
Material connector	Plastic
Installation tolerance	Long. ± 2 mm
Tensile strength (N)	Depending on the connector combination*
Material range	Particle board, MDF, plywood, softwood, hardwood etc.

* See **PAGE 60** for technical specifications

Tenso P-14

Self-clamping connector for glueing materials from 16 mm thickness

Features



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

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

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

Articles

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

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

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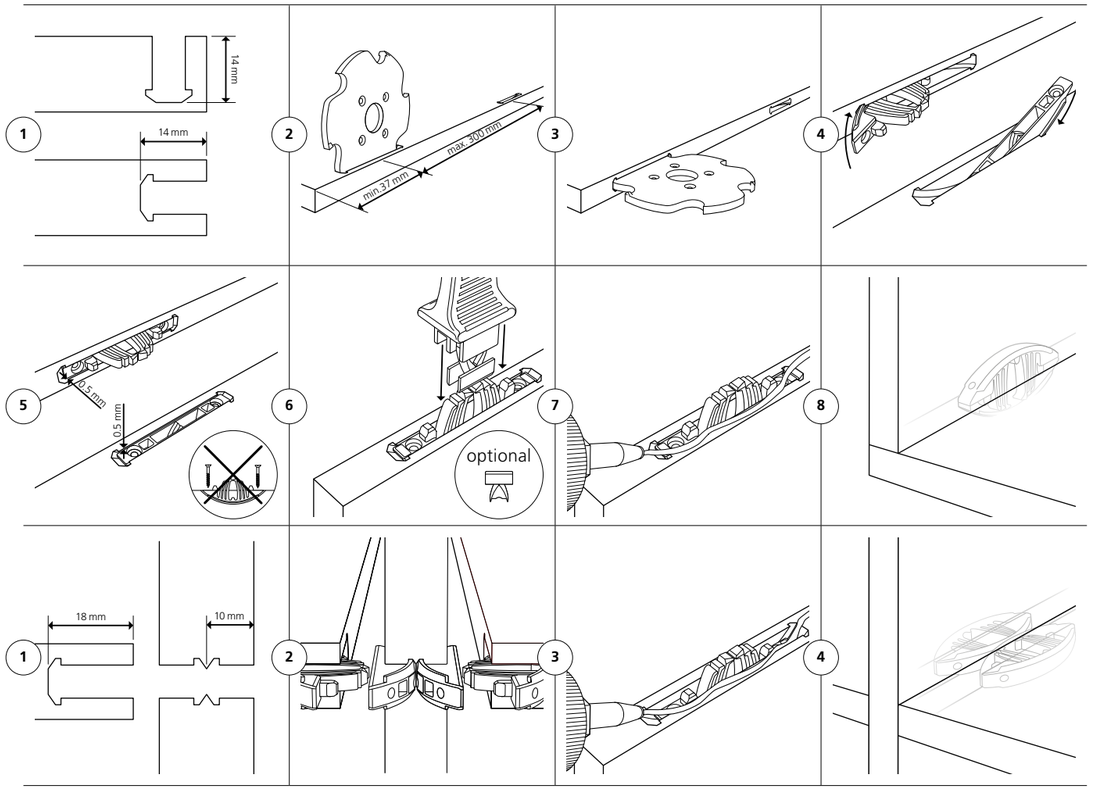
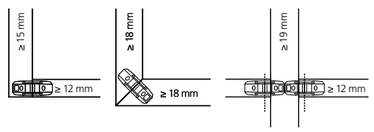
Function



Technical data

Joining methods



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

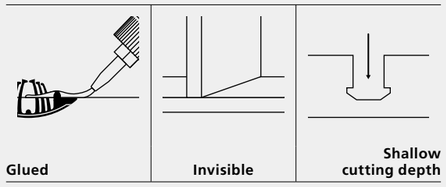
Size	66 × 27 × 9.7 mm
Cutter	Ø 100.4 × 7 × Ø 22 mm
Material connector	Fiberglass reinforced plastic
Installation tolerance	Long. ± 1 mm/radial ± 1 mm
Tensile strength (N)	Depending on the adhesive
Material range	Particle board, MDF, plywood, softwood, hardwood etc.

See **PAGE 61** 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

interzum Award
High product quality

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

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

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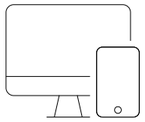
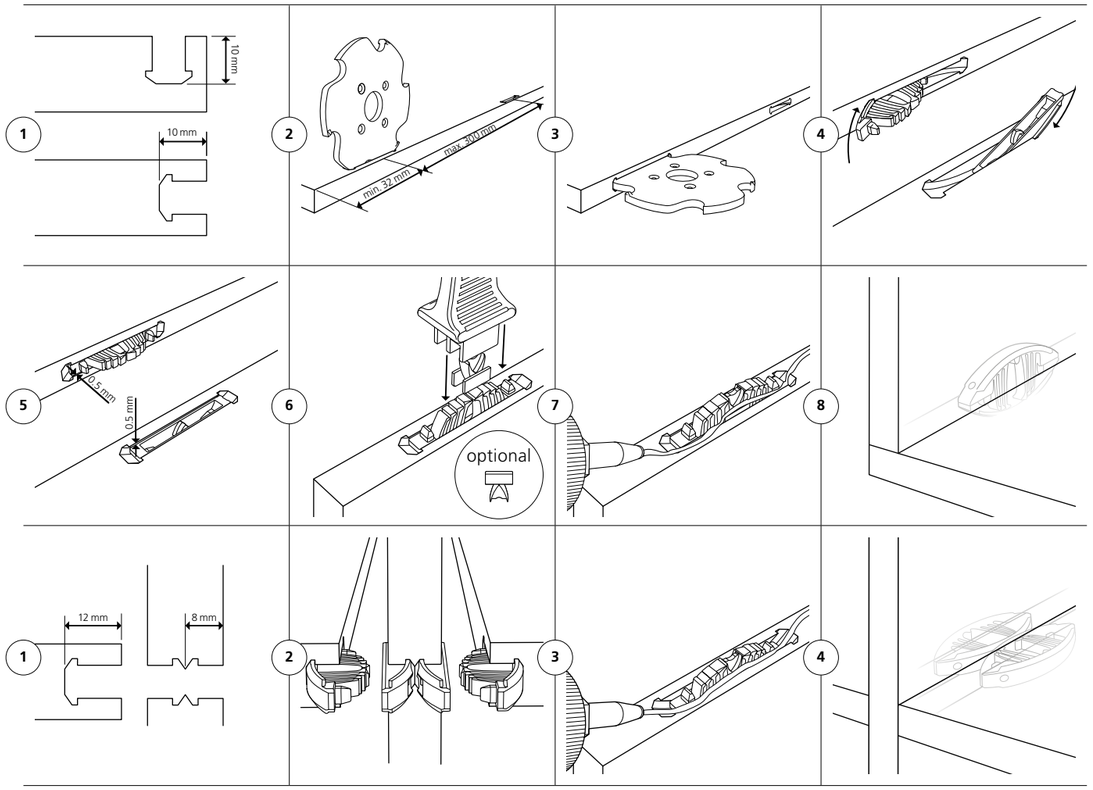


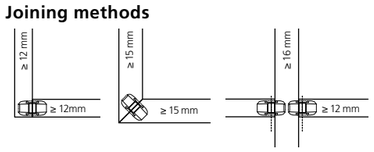
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

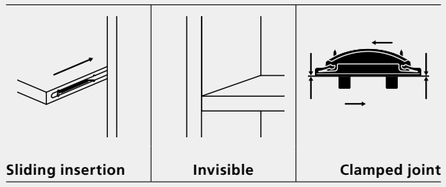
Size	52 × 19 × 9.7 mm
Cutter	Ø 100.4 × 7 × Ø 22 mm
Material connector	Fiberglass reinforced plastic
Installation tolerance	Long. ± 1 mm/radial ± 1 mm
Tensile strength (N)	Depending on the adhesive
Material range	Particle board, MDF, plywood, softwood, hardwood etc.

See **PAGE 61** for technical specifications

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 assembed cabinet. In the process, the Divario P-18 clamps the workpieces together firmly and ensures perfectly closed joints without visible connectors.

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

Articles

interzum Award

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

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

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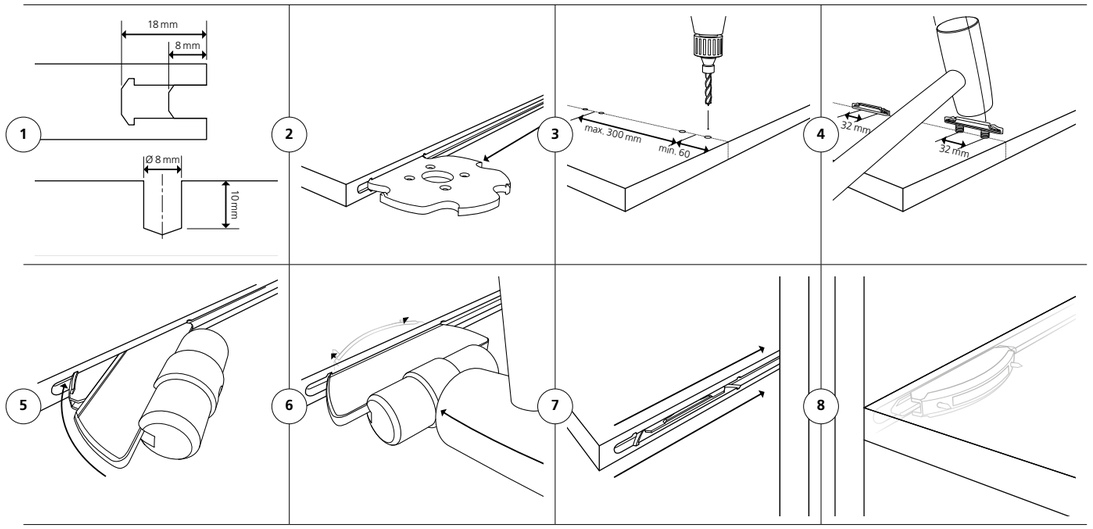
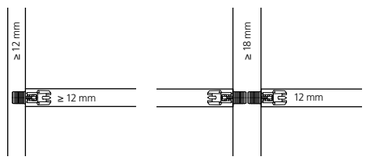
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



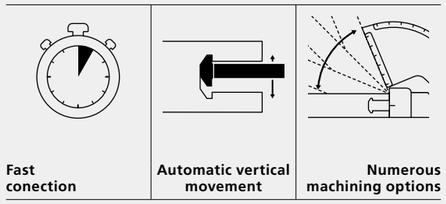
Element with P-System groove	65 × 16 × 9.7 mm				
Element with drill holes	Ø 8 × 10 mm, distance 32 mm				
Cutter	Ø 100.4 × 7 × Ø 22 mm				
Material connector	Fiberglass reinforced plastic				
Installation tolerance	Long. ± 1 mm/radial ± 0 mm				
Load limits per connector (N) Up to	(mm)	19	22	25	30
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

See **PAGE 61** for technical specifications | [1] See comment on load limits on **PAGE 183**

Zeta P2

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

Features



Fast conection	Automatic vertical movement	Numerous machining options

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

Articles

Zeta P2	Art. No.
With P-System groove cutter HW (carbide) in Systainer	**101402S**
With P-System groove cutter DP (diamond) in Systainer	**101402DS**

Kit contains

Zeta P2, P-System groove cutter, stop square, suction stub 23 + 36 mm, disc for angles, spacer 2 + 4 mm, tools, Clamex P drill jig incl. drill

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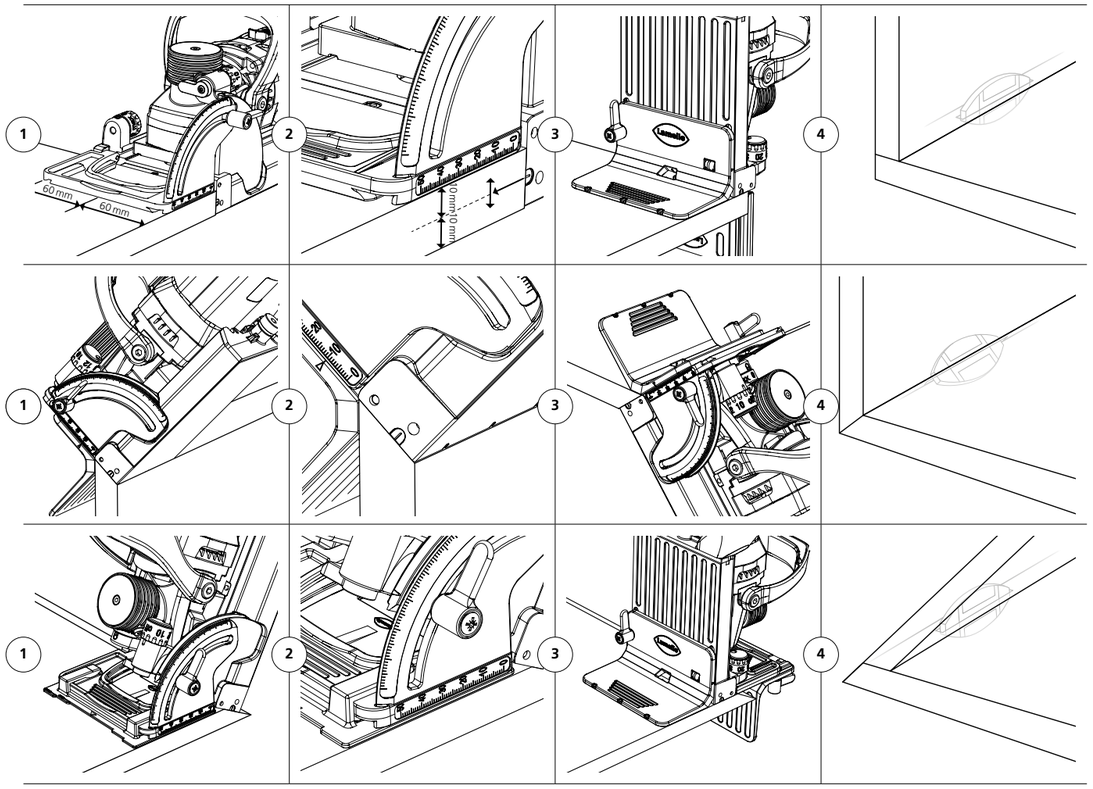
Experience Zeta P2 live and receive comprehensive product information!

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

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 m, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**

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

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

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

Please find the complete accessories range starting **PAGE 168**

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

Clamex P-14

Clamex P-14/10 Medius

Clamex P-10

Clamex P-14/10 Flexus

Bisco P-14

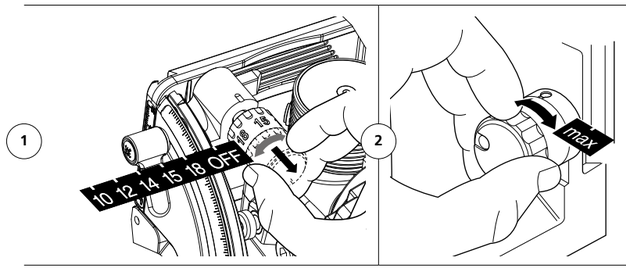
Bisco P-10

Tenso P-14

Tenso P-10

Divario P-18

P-System depth adjustment



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

With 4 mm Lamello System groove cutter

20

10

0

E20-H

E20-L

K20

C20

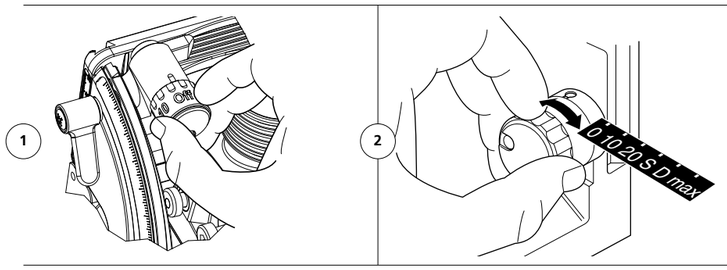
C10

Simplex

With 3 mm Lamello System groove cutter

H9

Lamello depth adjustment system

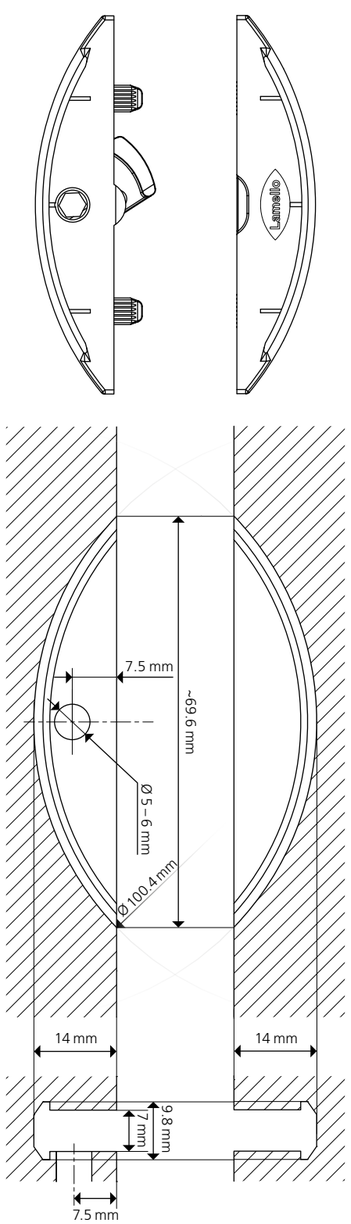


0	**Depth 0** no. 0
10	**Depth 10** no. 10, C10
20	**Depth 20** no. 20, E20-L, K20, C20
S	**Depth S** E20-H, Simplex
D	**Depth D** E20-L
max	**Depth max** E20-L

Technical information

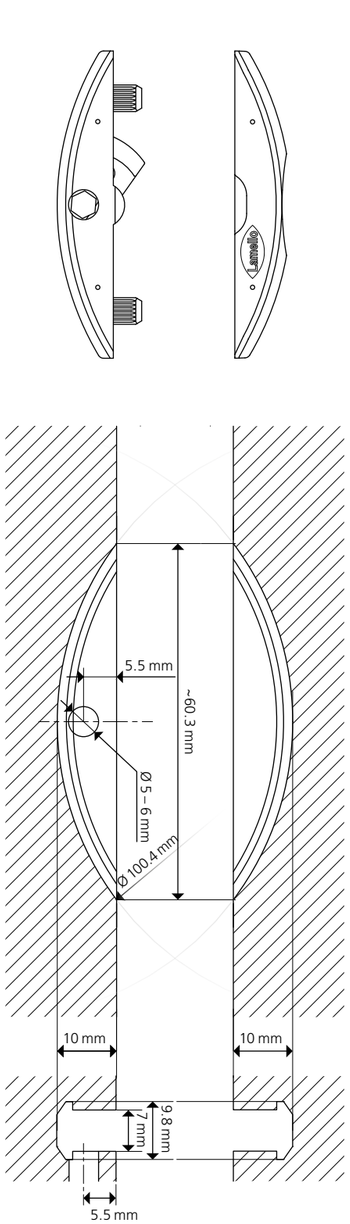
Overview of connectors + grooves (scale 1:1)

Clamex P-14



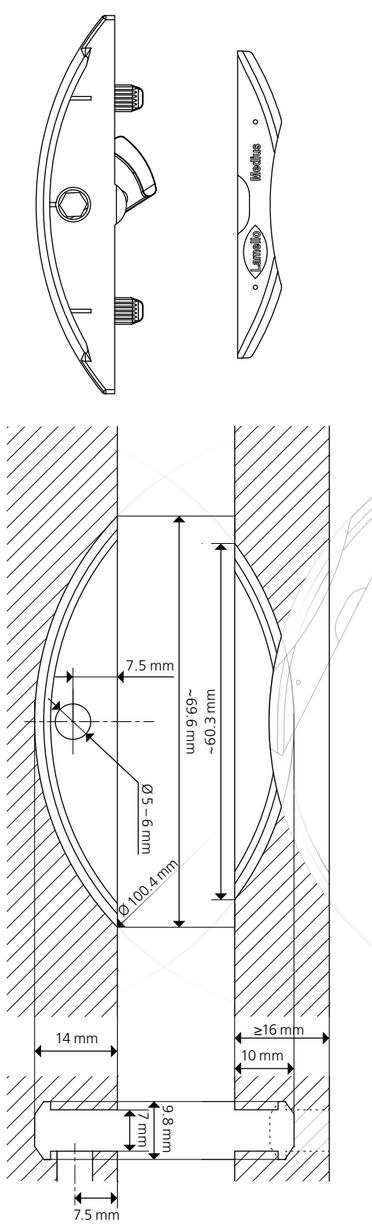
Tensile strength (N)	Up to
MDF	900[1]
Particle board	800[1]
Beech	1000[1]

Clamex P-10



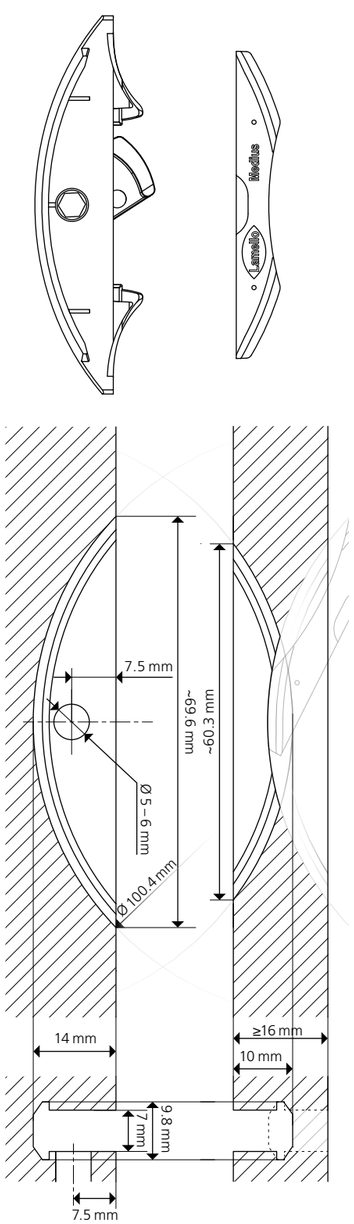
	Up to
MDF	600[1]
Particle board	600[1]
Beech	900[1]

Clamex P-14/10 Medius



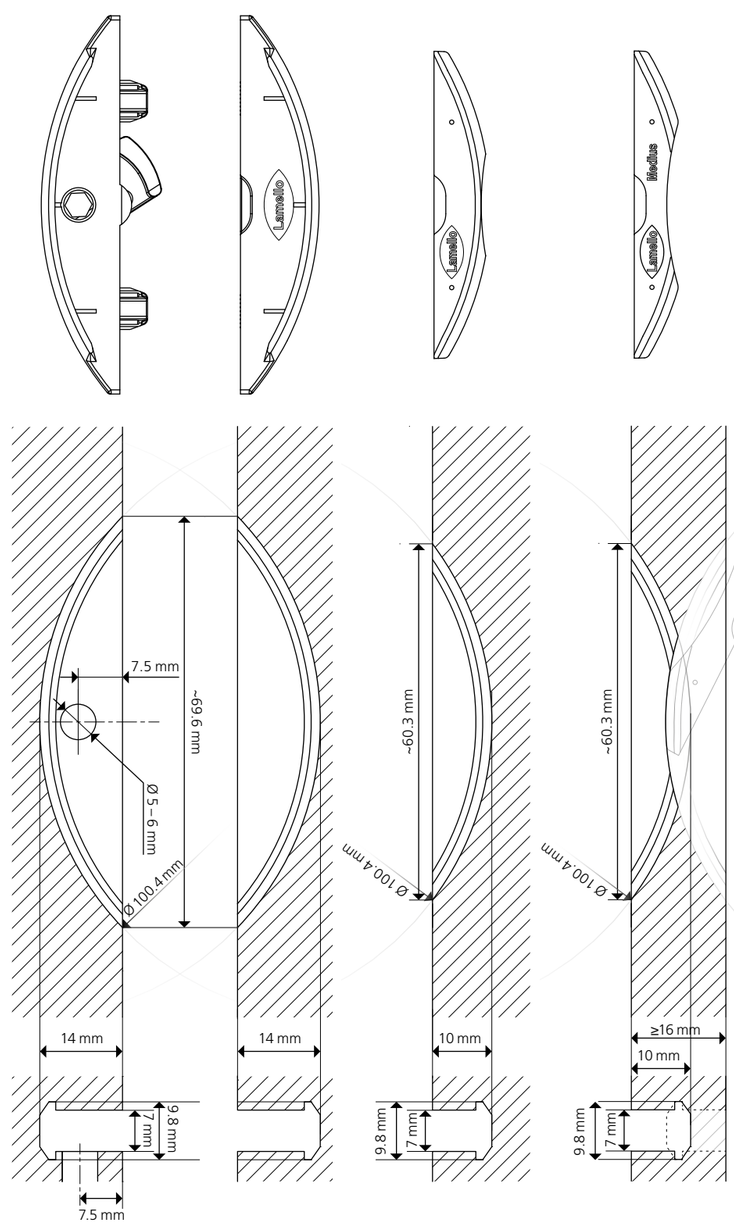
	Up to
MDF	800[1]
Particle board	600[1]
Beech	900[1]

Clamex P-14/10 Flexus



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

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



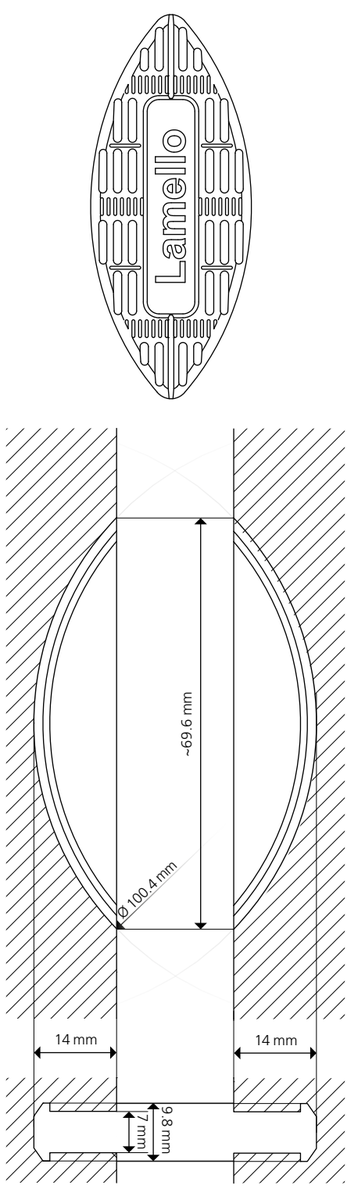
Tensile strength (N)	Up to	Up to	Up to
MDF	900[1]	800[1]	800[1]
Particle board	800[1]	600[1]	600[1]
Beech	1000[1]	900[1]	900[1]

[1] See comment on load limits on **PAGE 183**

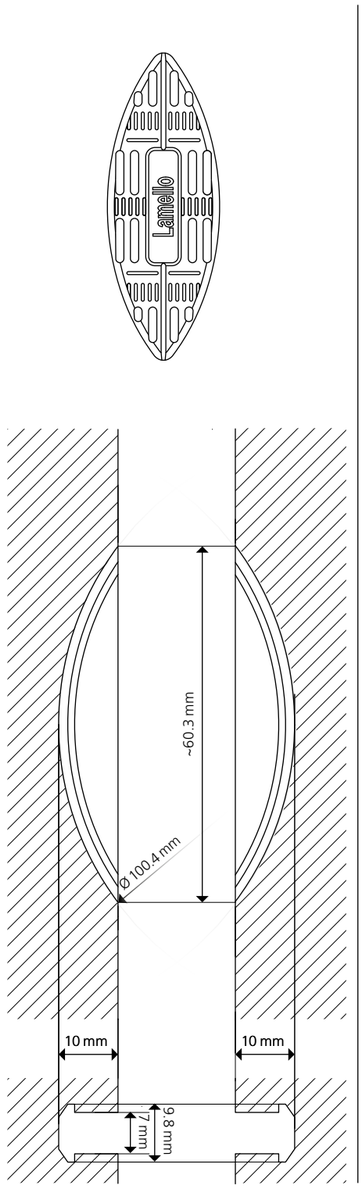
Technical information

Overview of connectors + grooves (scale 1:1)

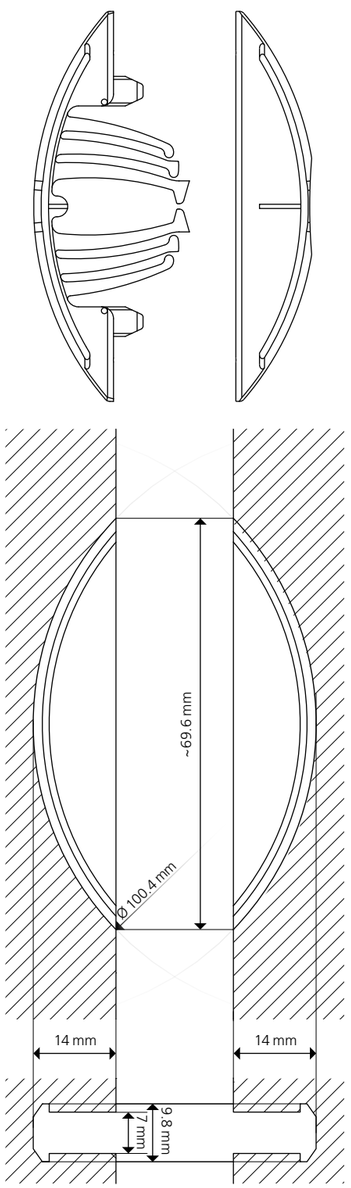
Bisco P-14



Bisco P-10



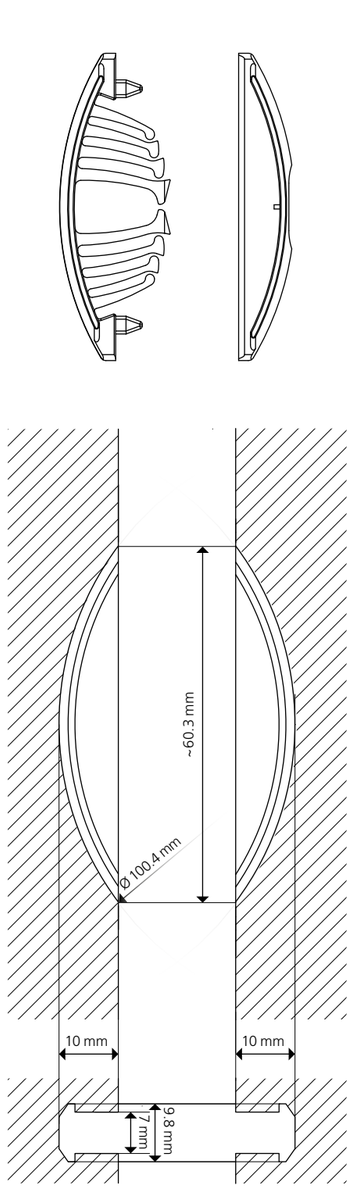
Tenso P-14



Tensile strength (N)

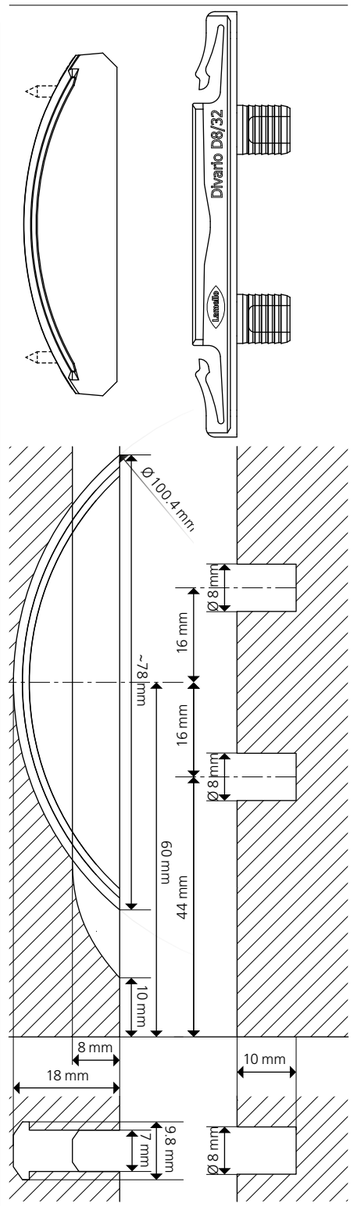
Depending on the adhesive

Tenso P-10



Depending on the adhesive

Divario P-18



Load limits per connector (N)*

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

Tensile strength (N)

All materials	600[1]

[1] See comment on load limits on **PAGE 183** I * Up to

Accessories / Spare Parts

P-System

P-System

P-System connector assortment professional	Art. No.
Scope of delivery: 120 pairs Clamex P-14, 30 pairs Clamex P-14/10 Flexus, 30 pairs Clamex P-10, 80 pairs Tenso P-14 incl. clip, 30 pairs Tenso P-10 incl. clip, 20 pieces Bisco P-14, 20 pieces Bisco P-10, 80 pairs Divario P-18, Divario installation tool/drill/ marking gauge, Clamex P installation tool, Tenso P-14/10 preload tool, Sortainer T-loc	**145312**

P-System connector assortment basic	Art. No.
Scope of delivery: 80 pairs Clamex P-14, 80 pairs Tenso P-14 incl. clip, 60 pairs Clamex P-14/10 Medius, 20 pieces Bisco P-14, Tenso P-14/10 preload tool, Systainer II T-Loc incl. compartment dividers	**145314**

Clamex P

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

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

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

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

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

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

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

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

Accessories / Spare Parts

P-System

Combination CNC and Zeta P2

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

Positioning clip CNC for Zeta P2*	Art. No.
Ø 6 mm	**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**

* For detailed information, see **PAGE 154**

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.
80 pairs in Systainer Size I, incl. installation tool and marking jig in metal	**145551**

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 m, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**

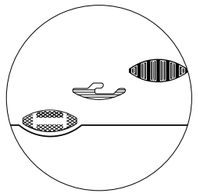
P-System groove cutter DP (diamond), Ø 100.4 × 7 × Ø 22 mm	Art. No.
Z3, 4 NL for Zeta P2	**132140**

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

Lamello System

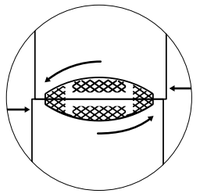
The original for efficient, intuitive and precise joints

Features



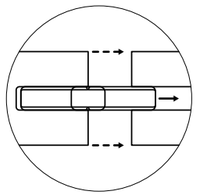
Versatile applications

One cutting principle for many different joining elements



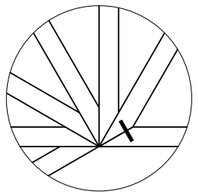
Lateral tolerance

The generous sliding tolerance allows for perfect flush alignment of workpieces



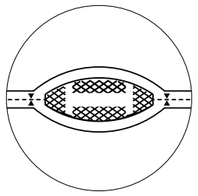
Perfect fit

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



Versatile

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



Symmetrical

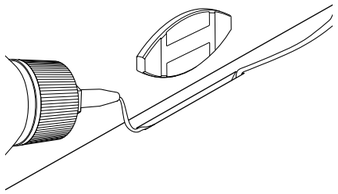
The identical groove in both workpieces leads to an increase in efficiency in production

Lamello System

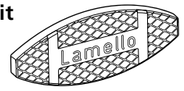
Overview

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

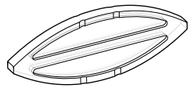
Glued



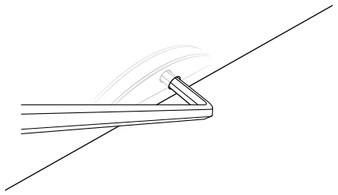
Original wood biscuit



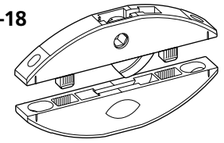
C20



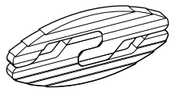
Detachable



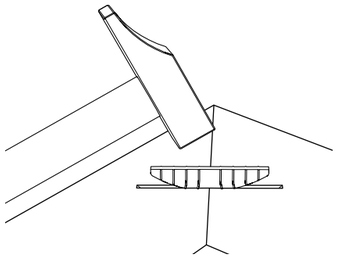
Clamex S-18



Simplex

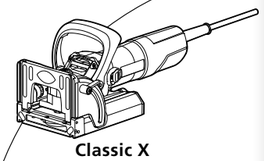


Inserted

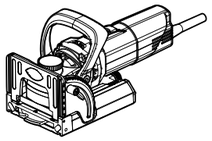


E20

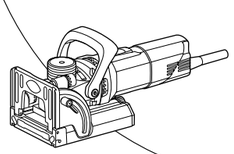
K20



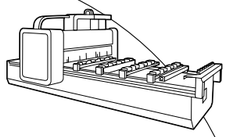
Classic X
Biscuit joiner



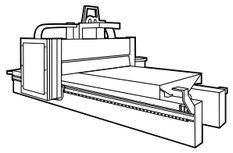
Top 21
Biscuit joiner



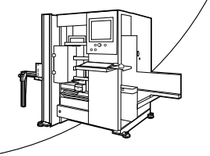
Zeta P2
Biscuit joiner



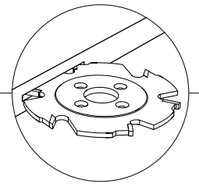
CNC processing centres with **consoles**

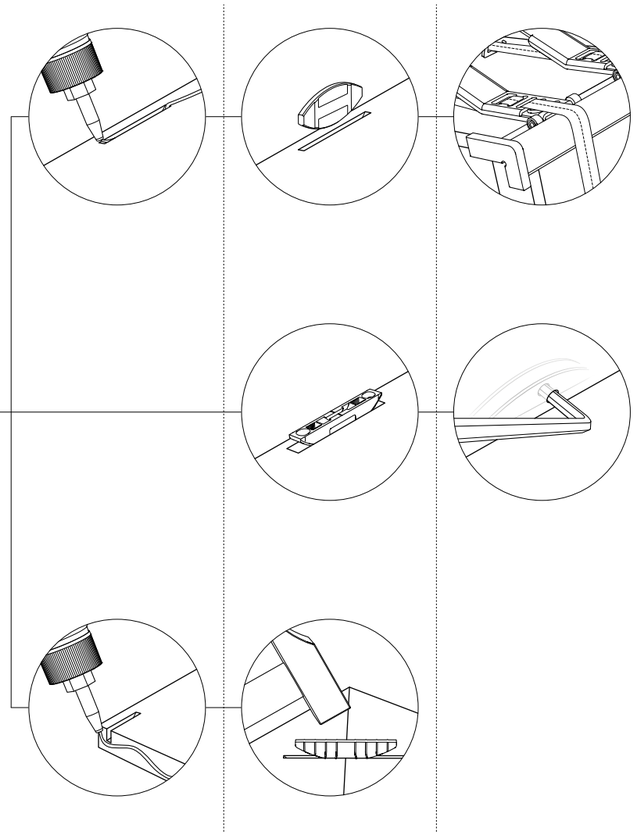


CNC processing centres with **nesting technology**



CNC processing centres **vertical**





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

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

Lamello System

Applications

Furniture manufacturing

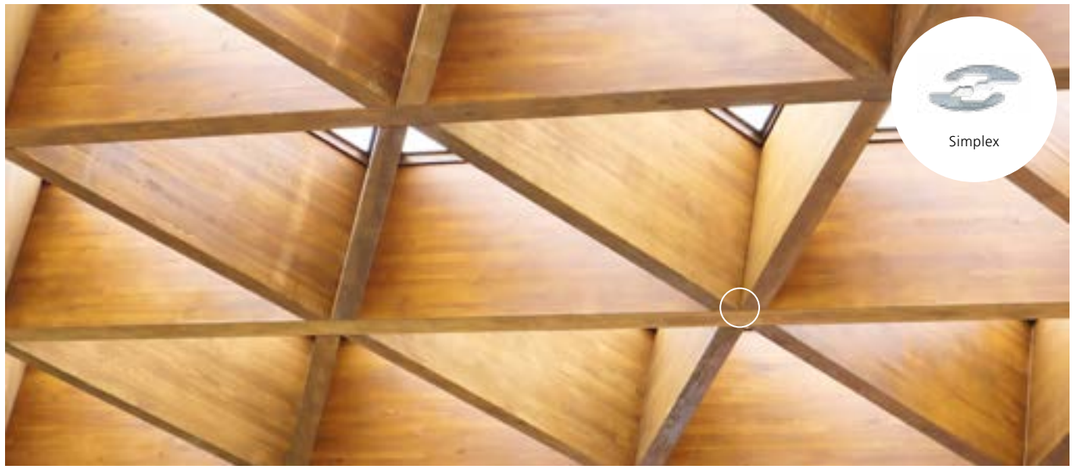
Interior fitting

Lamello System

Applications

Kitchen manufacturing

Commercial joinery

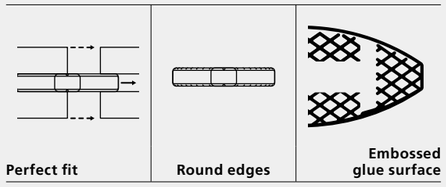


Shop fitting

Original wood biscuit

The original wood biscuit that always fits

Features



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

Articles

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

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

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

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

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

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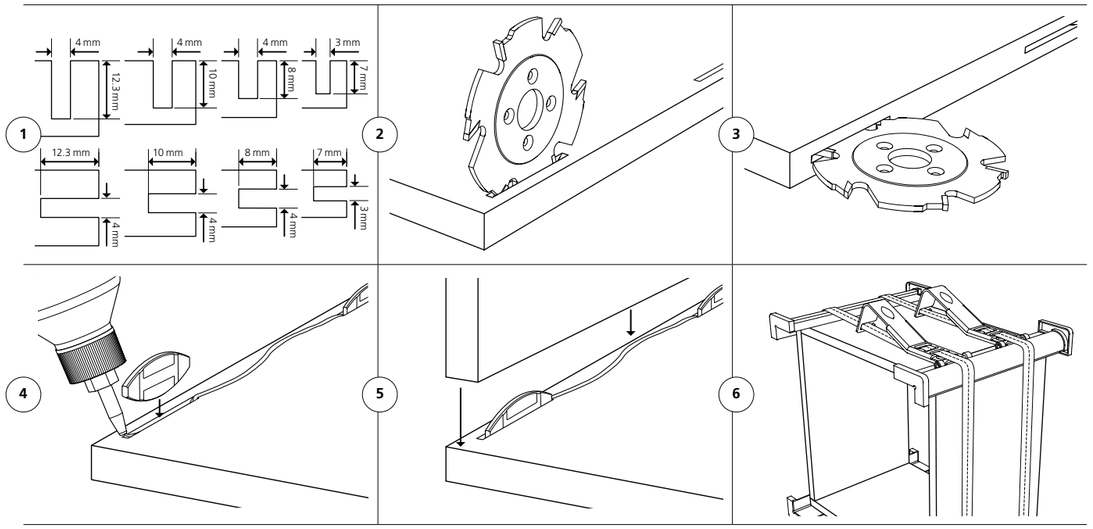
Experience the connector live and receive comprehensive product information!

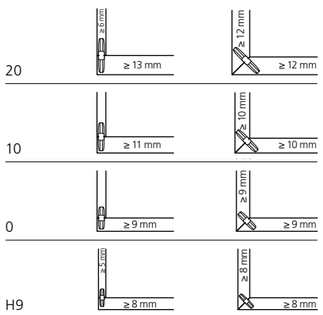
* Installation of wood biscuits with cutter Ø 100 × 4 × Ø 22 mm (standard cutter). Installation of H9 wood biscuits with cutter Ø 78 × 3 × Ø 22 mm (Art. No. 132009)

Function



Technical data

Joining methods



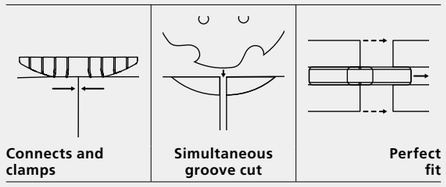
Size 20	56 × 23 × 4 mm
Size 10	53 × 19 × 4 mm
Size 0	47 × 15 × 4 mm
Cutter	Ø 100.4 × 4 × Ø 22 mm
Size H9	38 × 12 × 3 mm
Cutter	Ø 78 × 3 × Ø 22 mm
Material connector	Beech
Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
Clamping force (N)	Depending on the adhesive
Material range	Particle board, MDF, plywood, softwood, hardwood etc.

See **PAGE 100 – 101** for technical specifications

E20

The self-clamping element

Features



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

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

Articles

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

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

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

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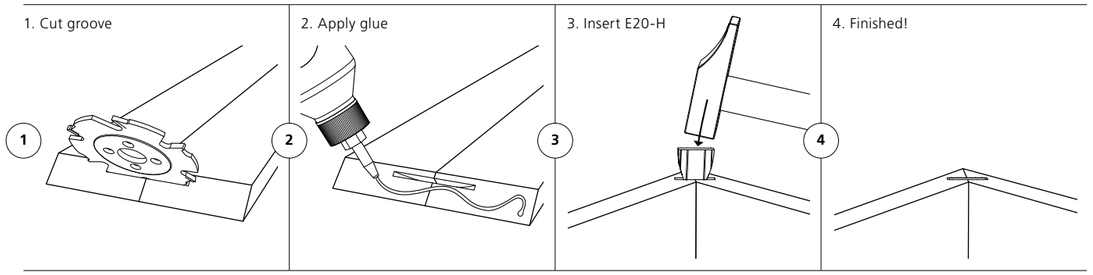
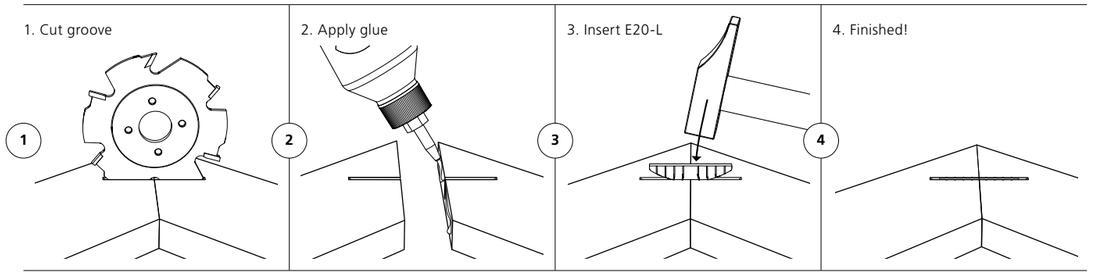
Function

E20-H

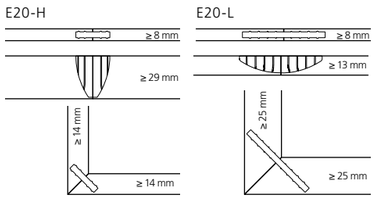


E20-L



Technical data

Joining methods



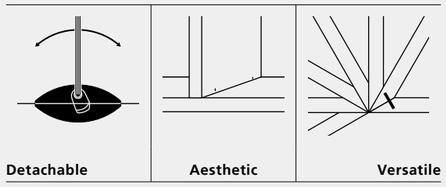
Size E20-H	23 × 28 × 4 mm
Size E20-L	56 × 11.5 × 4 mm
Cutter	Ø 100 × 4 × Ø 22 mm
Material connector	Fiberglass reinforced plastic
Clamping force (N)	Depending on the adhesive
Material range	Particle board, MDF, plywood, softwood, hardwood etc.

See **PAGE 103** for technical specifications

Clamex S-18

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

Features



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

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

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

Articles

Clamex S-18	Art. No.
18 pairs, incl. screws 3 × 15 mm	**145231**
80 pairs	**145236**
300 pairs	**145241**
1000 pairs	**145251**

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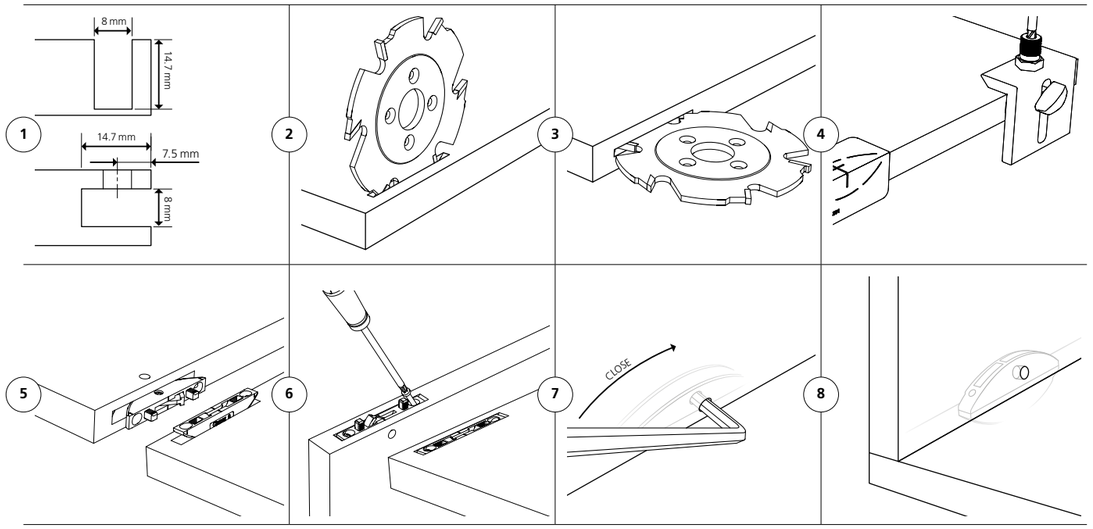
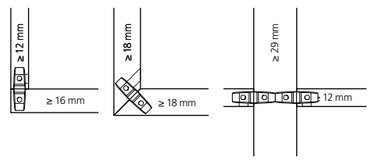
* Double cut with 4 mm cutter and spacer
Single cut with 8 mm cutter Art. No. 132108

Function



Technical data

Joining methods



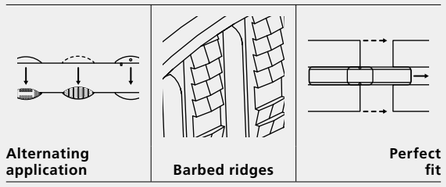
Size	66 × 29 × 8 mm		
Cutter	Ø 100 × 8 × Ø 22 mm		
Material connector	Fiberglass reinforced plastic		
Material of lever	Zinc die cast		
Screw	Panhead 3 × 15 mm		
Installation tolerance	Long. ± 1.0 mm		
Clamping force (N) Up to	MDF 600[1]	Particle board 600[1]	Beech 900[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 102** for technical specifications | [1] See comment on load limits on **PAGE 183**

K20

The clamping element, which holds the workpiece in position

Features



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

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

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

Articles

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

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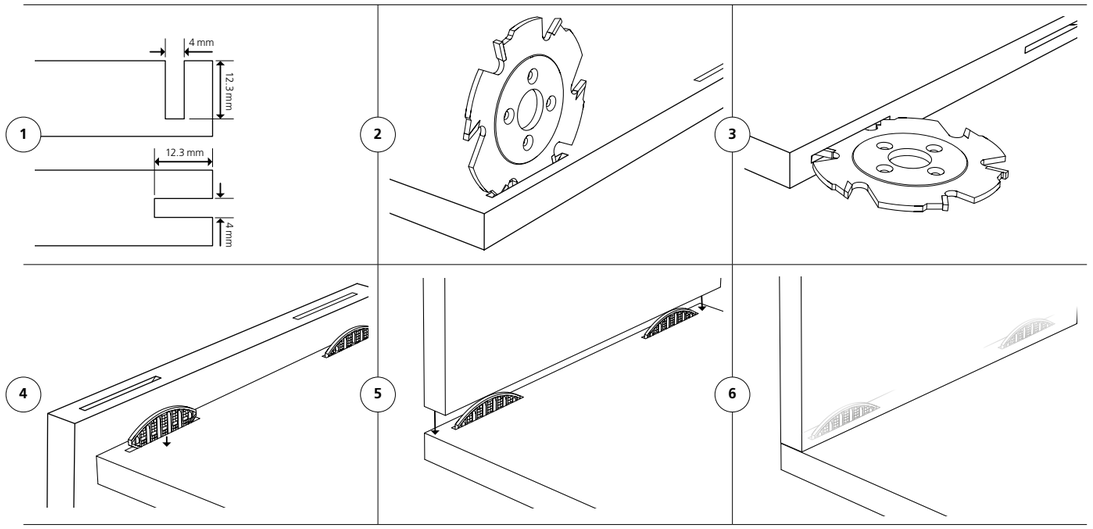
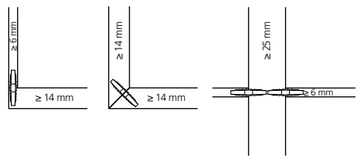
Function



Technical data

Joining methods



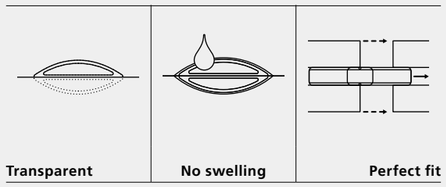
Size	60 × 24 × 4.5 mm
Cutter	Ø 100 × 4 × Ø 22 mm
Material connector	Plastic
Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
Clamping force (N)	Depending on the adhesive
Material range	Particle board, MDF, plywood, softwood, hardwood etc.

See **PAGE 103** for technical specifications

C20/C10

The transparent element

Features



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

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

Articles

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

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

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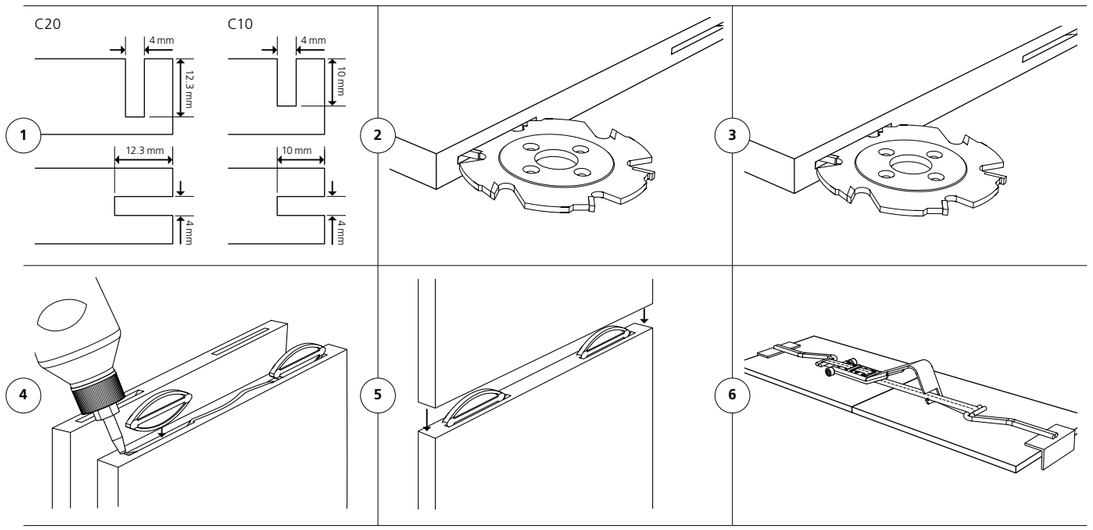
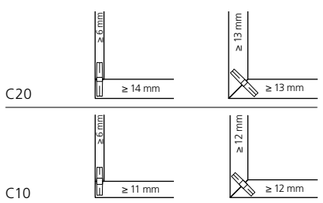
Function



Technical data

Joining methods



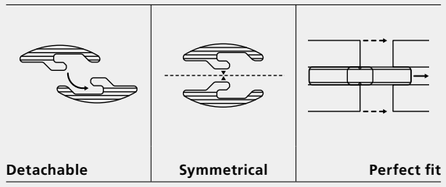
Size C20	60 × 23 × 4 mm
Size C10	53 × 19 × 4 mm
Cutter	Ø 100 × 4 × Ø 22 mm
Material connector	Plastic
Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
Clamping force (N)	Depending on the adhesive
Material range	Mineral material panels (e.g. Corian)

See **PAGE 101** for technical specifications

Simplex

Detachable slide-in connector

Features



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

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

Articles

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

Accessories

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

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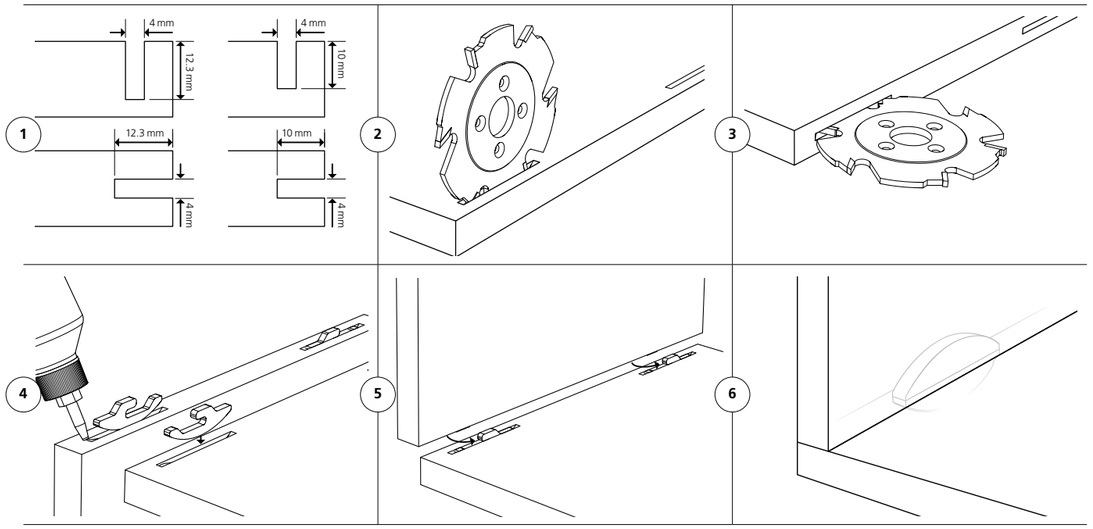
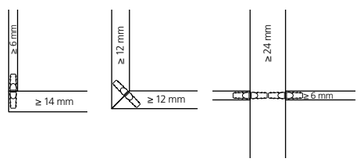
Function



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 102** for technical specifications

Minicol

The all purpose glue applicator

Features

Glue application on the sides	Immediate use	Versatile nozzles

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

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

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

Articles

Minicol glue applicator	Art. No.
With plastic nozzle 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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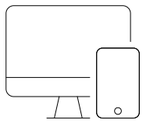
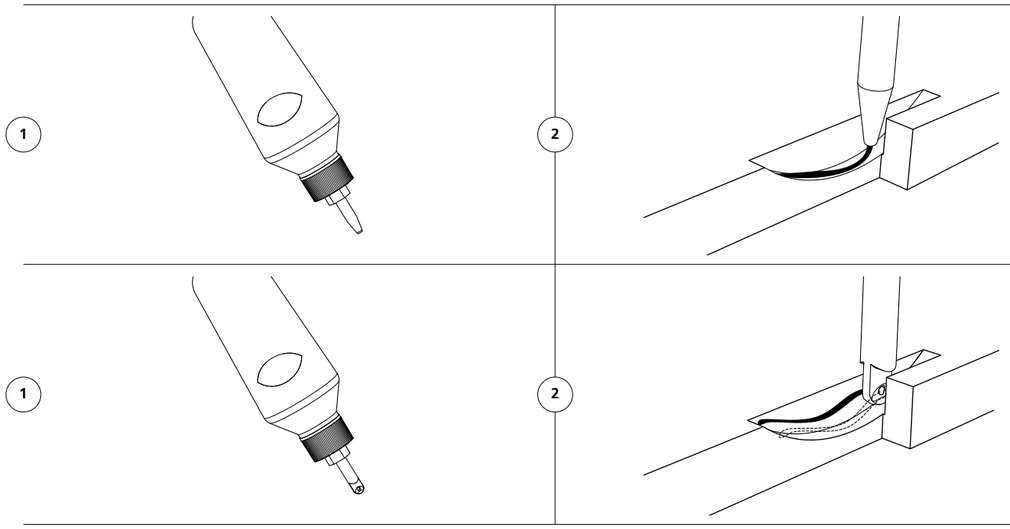


Experience the Minicol live and receive comprehensive product information!

Function



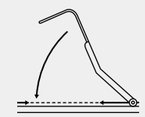
Technical data

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

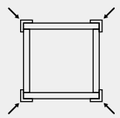
Clamping set

Clamping system for cabinets

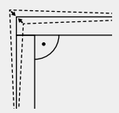
Features



Easy clamping



Even pressure distribution



Correct angle

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

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

Articles

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

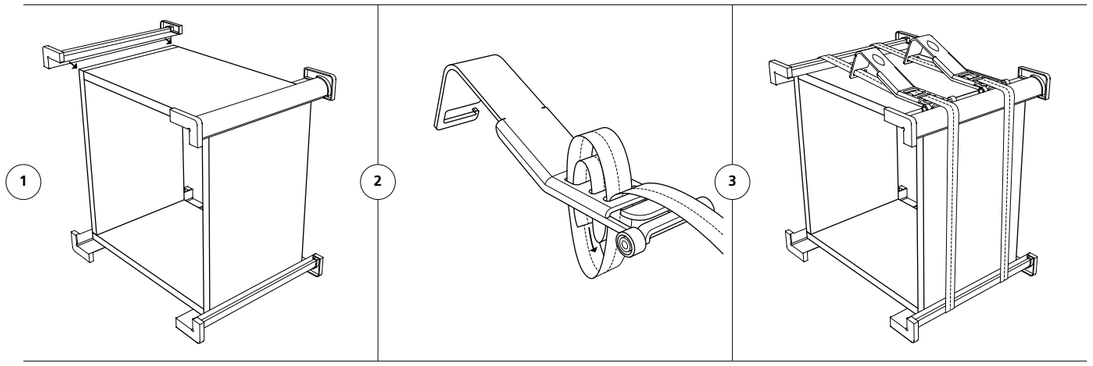
Tension hooks	Art. No.
2 pieces	**175200**

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

www.lamello

Experience the clamping set live and receive comprehensive product information!

Function

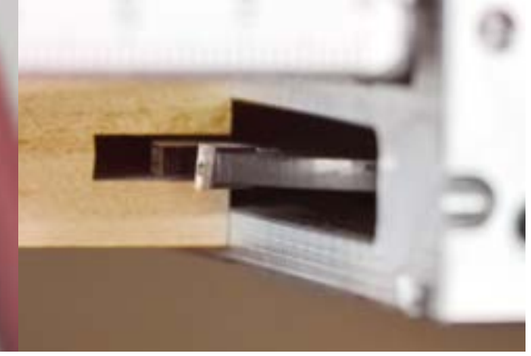


Technical data

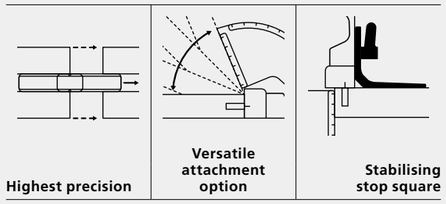
Min. workpiece length	150 mm	
Material	Aluminium protectors	Anodised aluminium
	Polyester belt for clamps	Polyester
	Clamps/Tension hooks	Metal powder-coated

Classic X

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

Classic X	Art. No.
In systainer	**101601S**
In carton	**101601K**

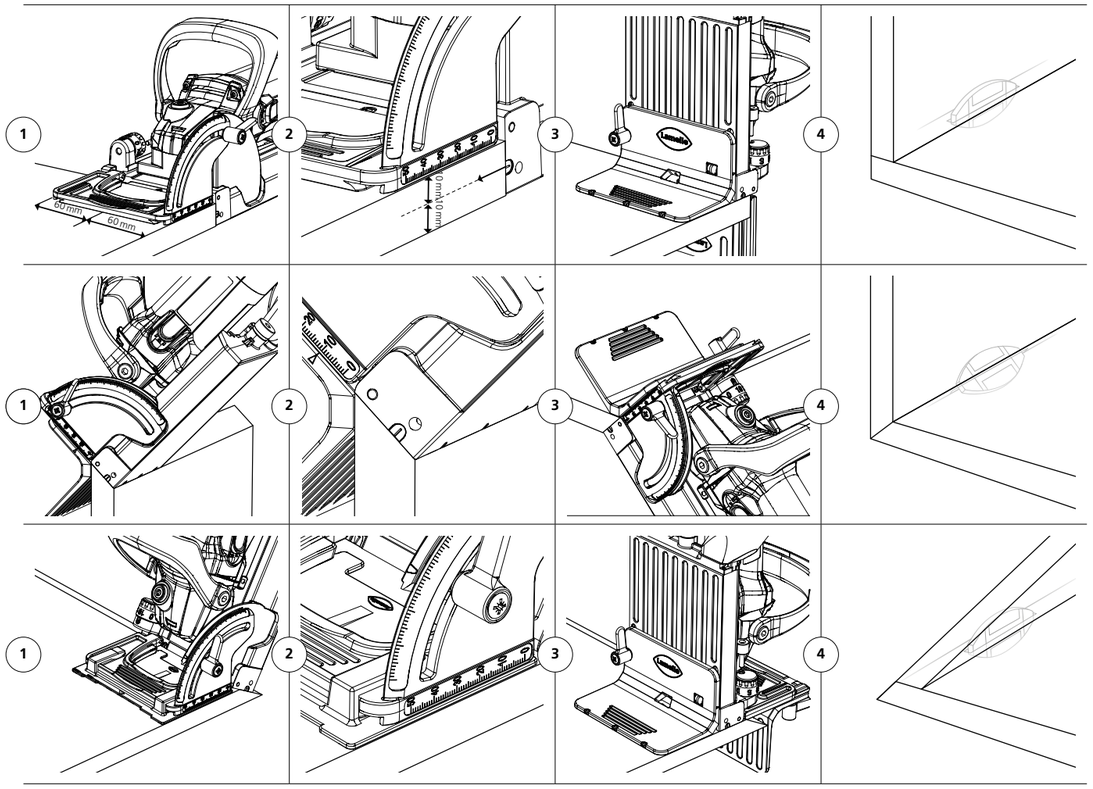
Kit contains

Classic X, groove cutter HW (carbide), suction stub 36 mm, stop square, spacer 4 mm, tool set

www.lamello

Experience Classic X live and receive comprehensive product information!

Function



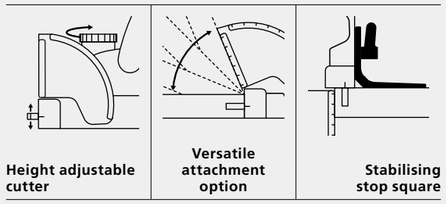
Technical data

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	**101500S**
In systainer with carbide reversing blade cutter	**101500SW**

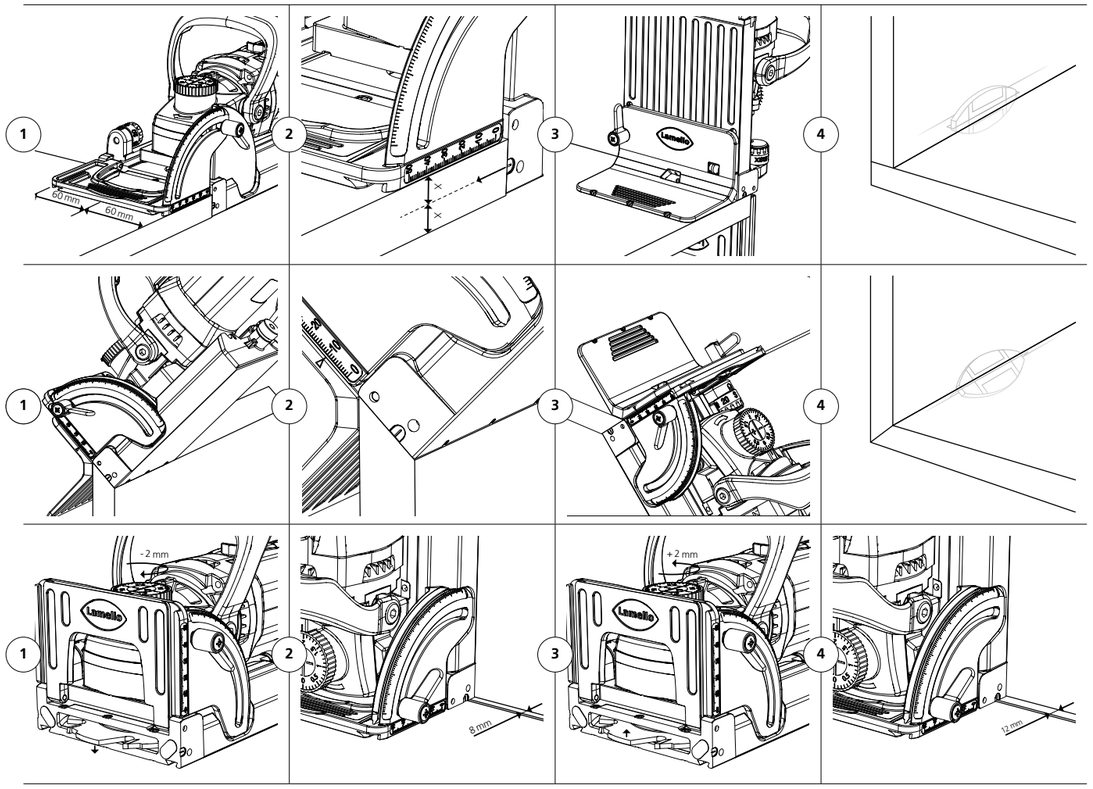
Kit contains

Top 21, groove cutter HW, suction stub 23 mm, suction stub 36 mm, dust bag, stop square, spacer 4 mm, tool set

www.lamello

Experience Top 21 live and receive comprehensive product information!

Function



Technical data

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

Accessories

Classic X and Top 21

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 m, 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) 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**

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

	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, Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	Art. No.
Z4 + V4, 4 screw holes for Top 20, Top 21, Classic X	**132108**

Dust bag	Art. No.
For biscuit joiner	**337530**
and extractor stub Ø 36 mm	**257530**

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

Deflector stub	Art. No.
For biscuit joiner	**331005**

Please find the complete accessories range starting **PAGE 172**

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

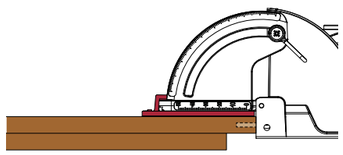
Perfect precision of mitres by applying on the outer surface for 22.5 and 45° angles

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

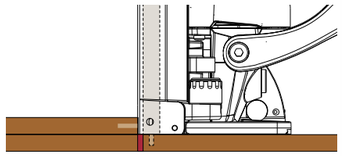
Swivelling front with fixed rotational point

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

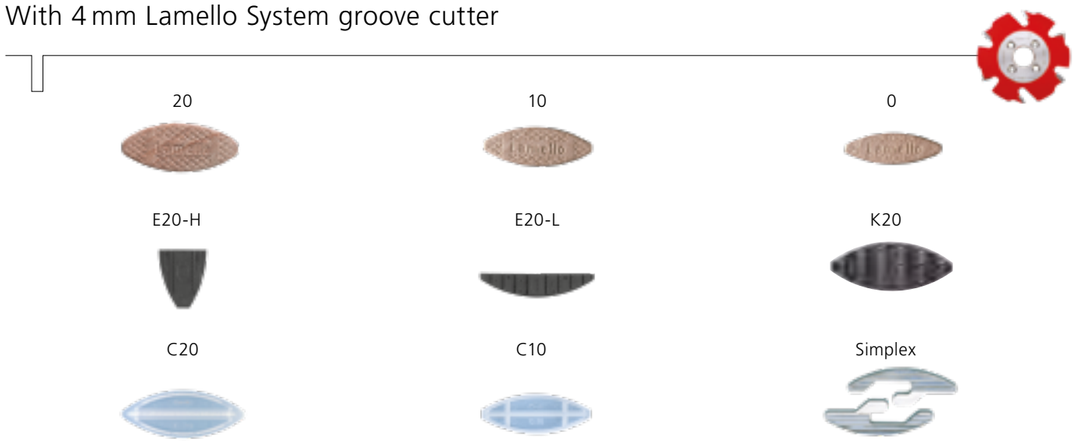
– **Long-life precision guide** provides exact, parallel grooves for perfect fit of the workpieces

Versatile use ...

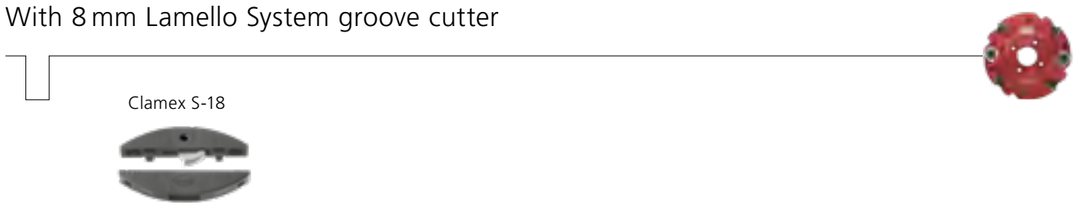
... with various connecting elements.

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.

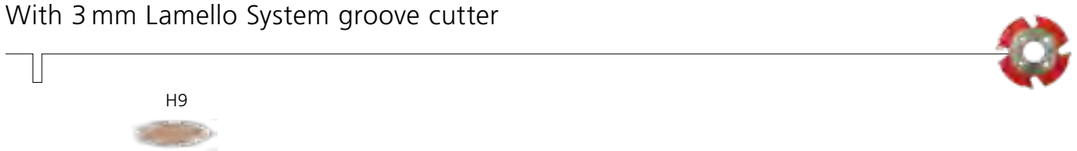
With 4 mm Lamello System groove cutter



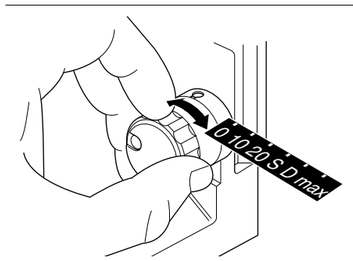
With 8 mm Lamello System groove cutter



With 3 mm Lamello System groove cutter



Lamello depth adjustment system

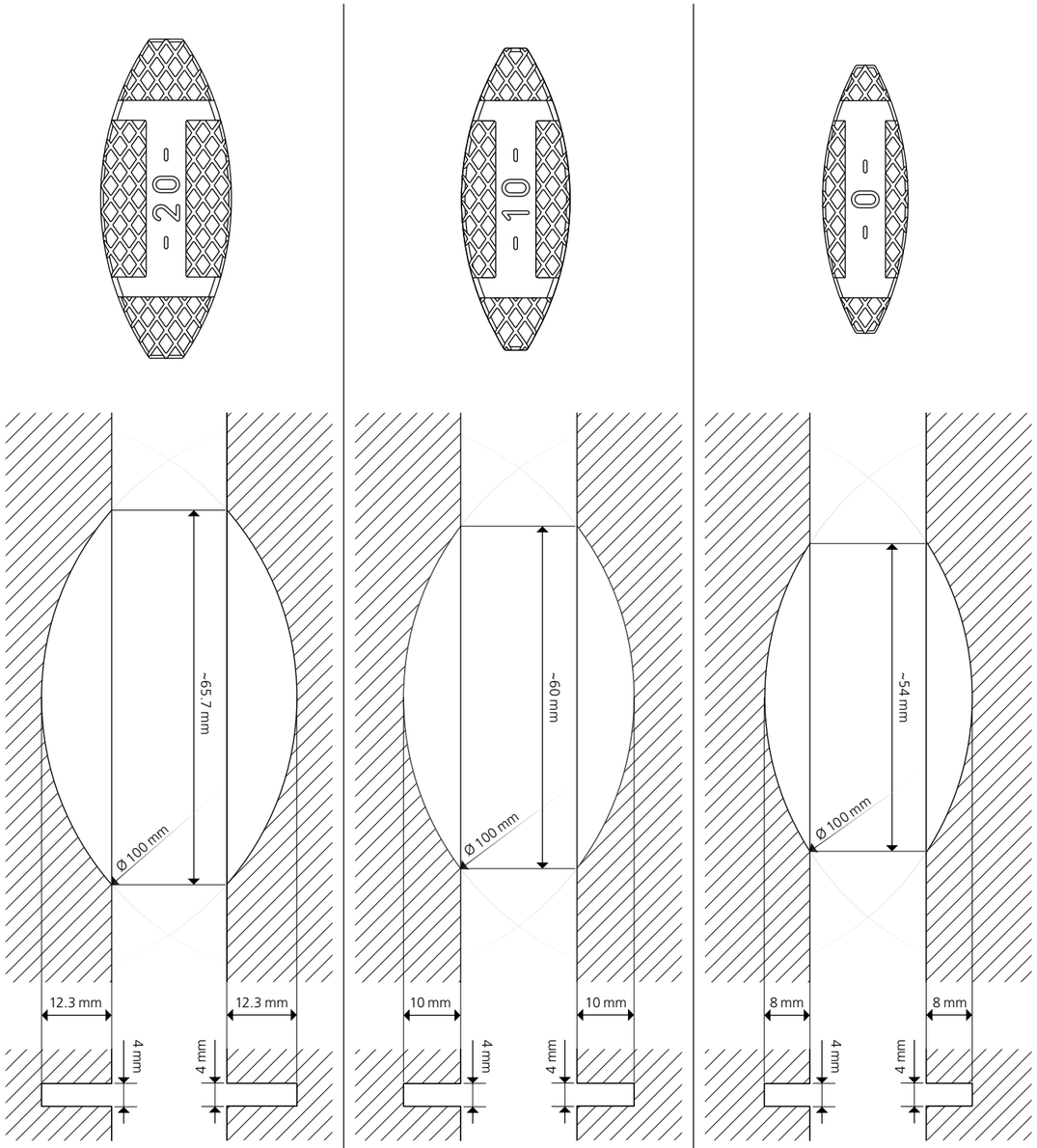


0	**Depth 0** no. 0
10	**Depth 10** no. 10, C10
20	**Depth 20** no. 20, E20-L, K20, C20
S	**Depth S** E20-H, Simplex
D	**Depth D** E20-L
max	**Depth max** E20-L

Technical information

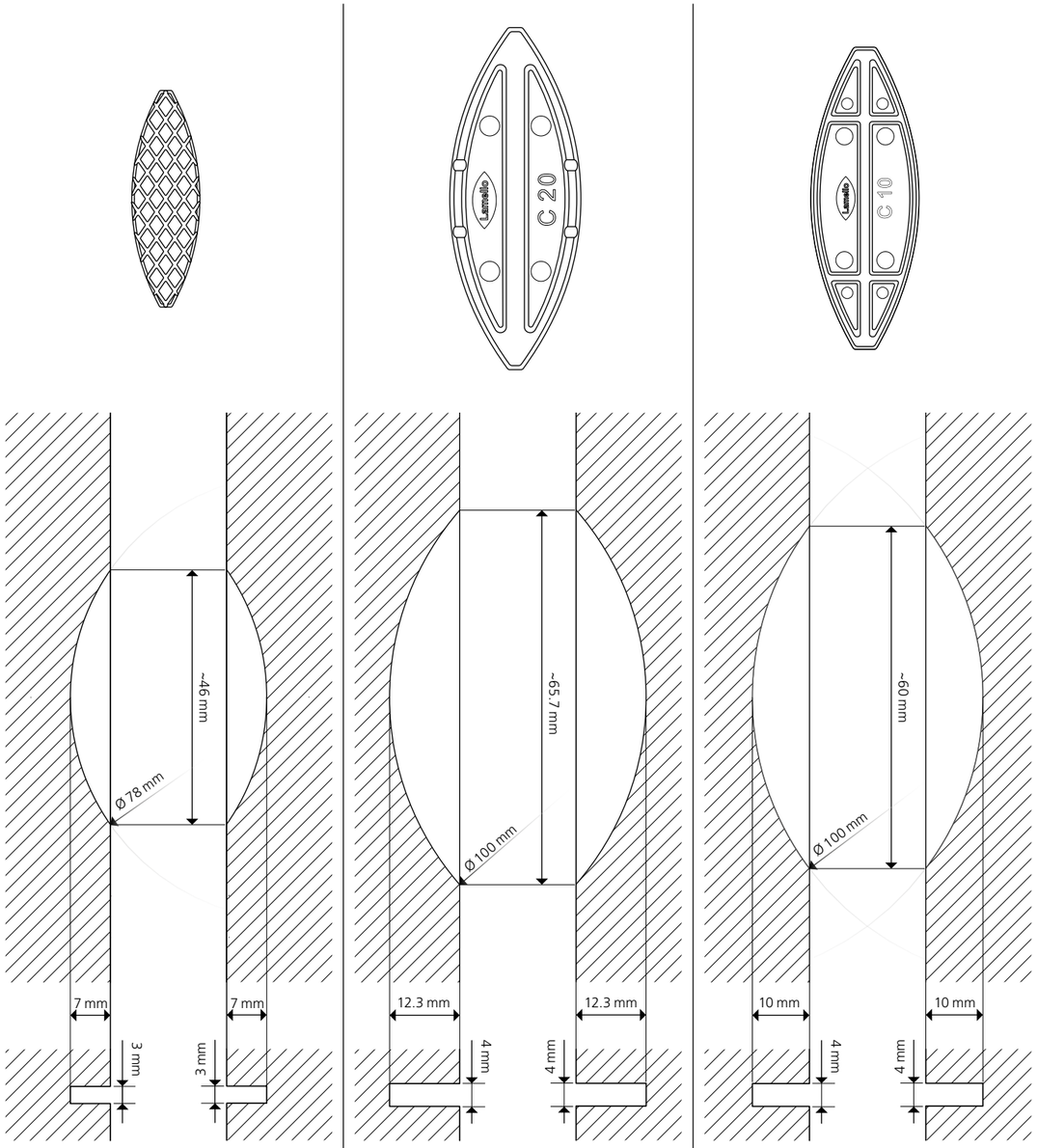
Overview of connectors + grooves (scale 1:1)

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

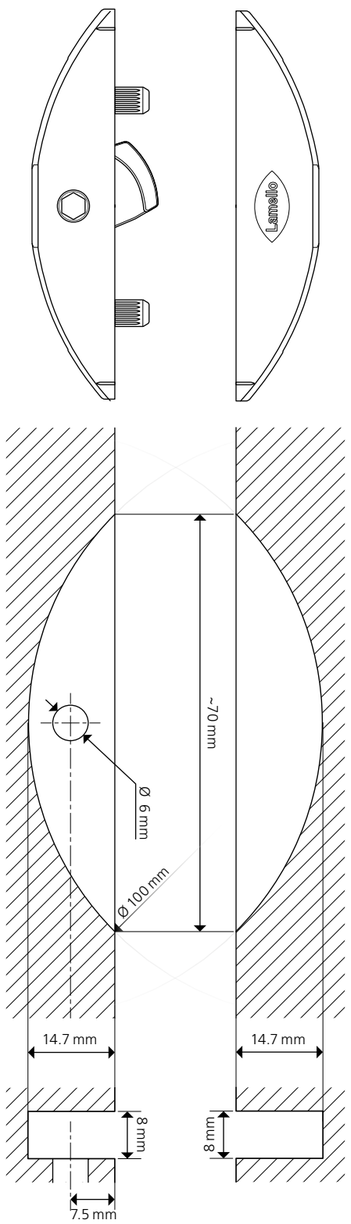
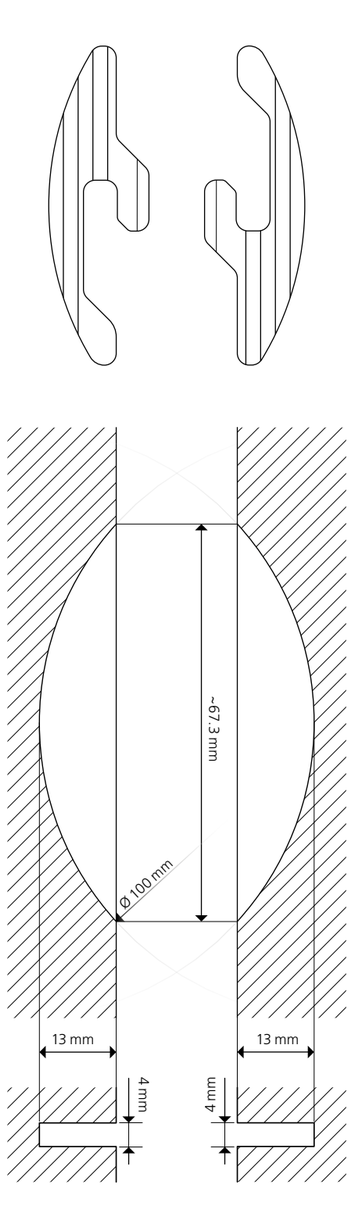
Original wood biscuit H9	C-20	C10

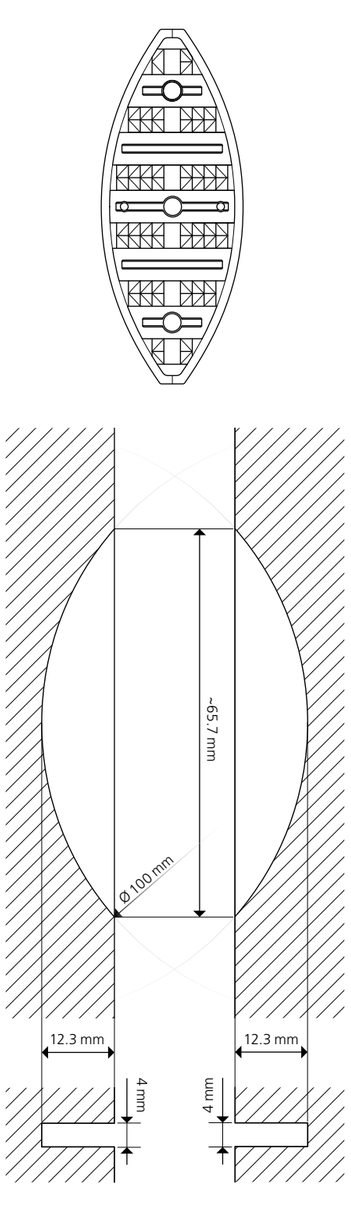
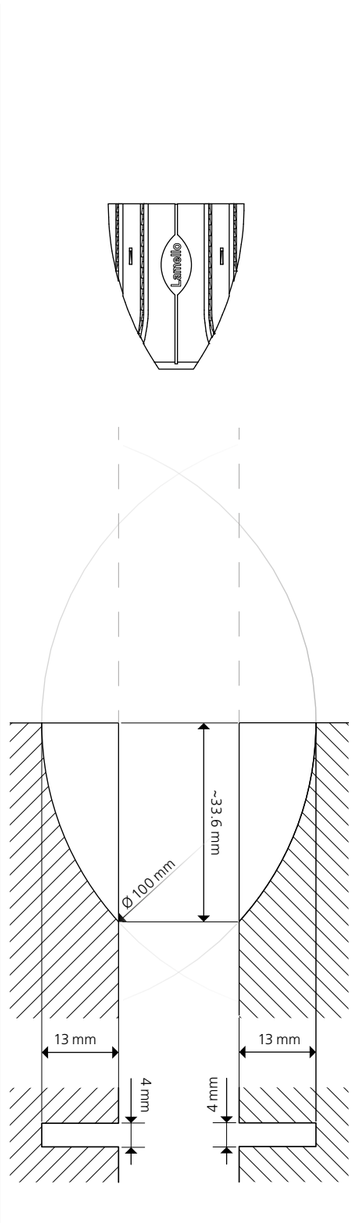
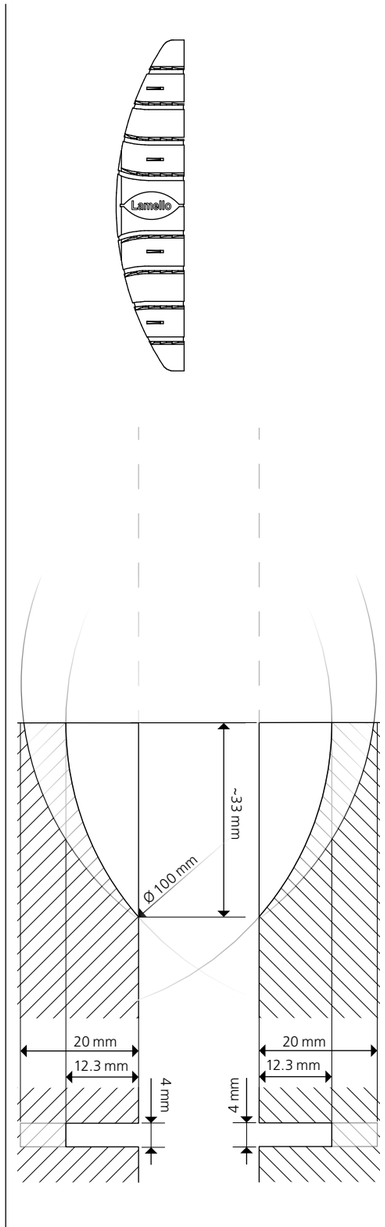


Tensile strength (N)	Tensile strength (N)	
Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

Technical information

Overview of connectors + grooves (scale 1:1)

Clamex S-18	Simplex
	
Tensile strength (N)	
Depending on the adhesive	Depending on the adhesive

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

Accessories/ Spare Parts

Lamello System

Lamello System

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 m, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**

Systainer II T-loc	Art. No.
Systainer II T-loc, empty	**331565**
Insert with two partitions for systainer II	**360018**
Insert systainer II T-loc for Zeta P2/Top21/Classic X	**360014**

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

	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, Ø 100 × 4 × Ø 22 mm	Art. No.
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, Ø 100 × 4 × Ø 22 mm	Art. No.
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, Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	Art. No.
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**

Accessories/ Spare Parts

Lamello System

Lamello System

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

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

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

	Art. No.
Flange M8 to saw blades	**252502**

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

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

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 m¹	**335000**

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

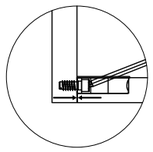
Profile sections	Art. No.
4 pieces, length 12 cm	**175401**
4 pieces, length 40 cm	**175402**
4 pieces, length 60 cm	**175403**

Drilling System

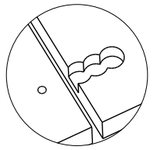
Unique drilling systems for high demands
on productivity and aesthetics

Features Cabineo

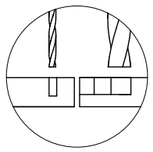
Fast
assembly



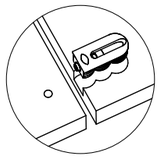
High clamping
force



No edge
drilling

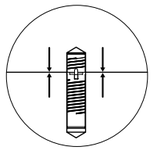


No dowel
holes

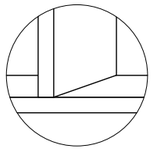


One-piece and
pre-installed

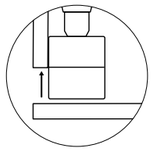
Features Invis Mx2



Fast
assembly



Invisible



Detachable

Drilling System

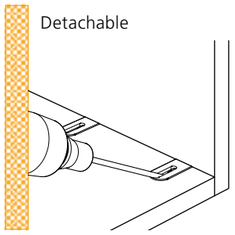
– Cabineo
– Invis Mx2

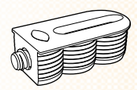
Overview

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

Detachable

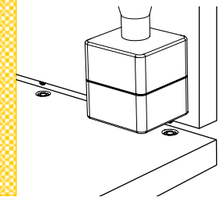
Cabineo

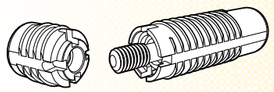


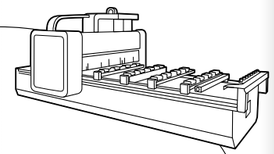


Detachable

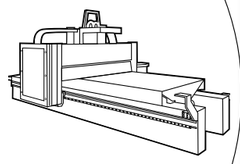
Invis Mx2



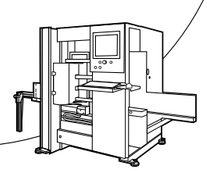




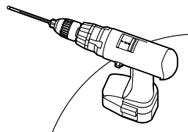
CNC processing centres with **consoles**



CNC processing centres with **nesting technology**

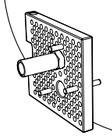


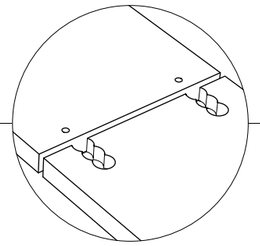
CNC processing centres **vertical**

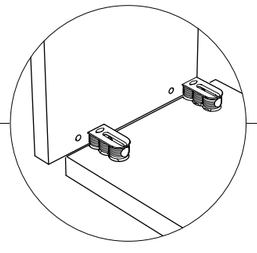


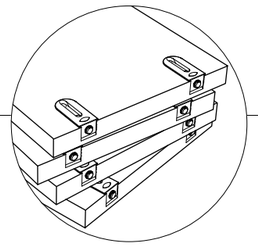
Cordless drill

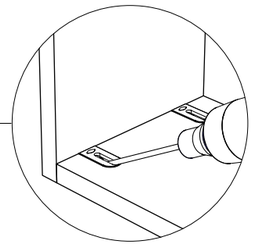
Rasto

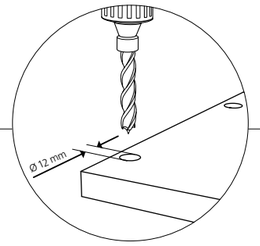


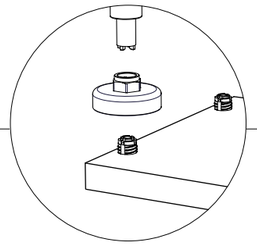


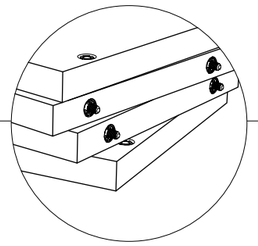


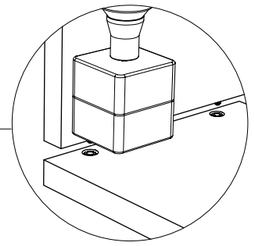












« The fitting impressed us due to its simple processing, time-saving assembly, detachability and high clamping force. »

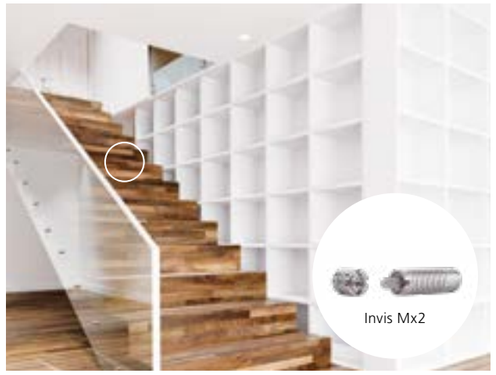
Karl Lenhart jun., Owner, Lenhart joinery in the Tyrolean uplands

Drilling System

Applications

Furniture manufacturing

Interior fitting



Drilling System

Applications

Kitchen manufacturing

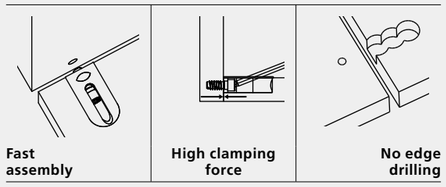
Commercial joinery

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

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

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

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

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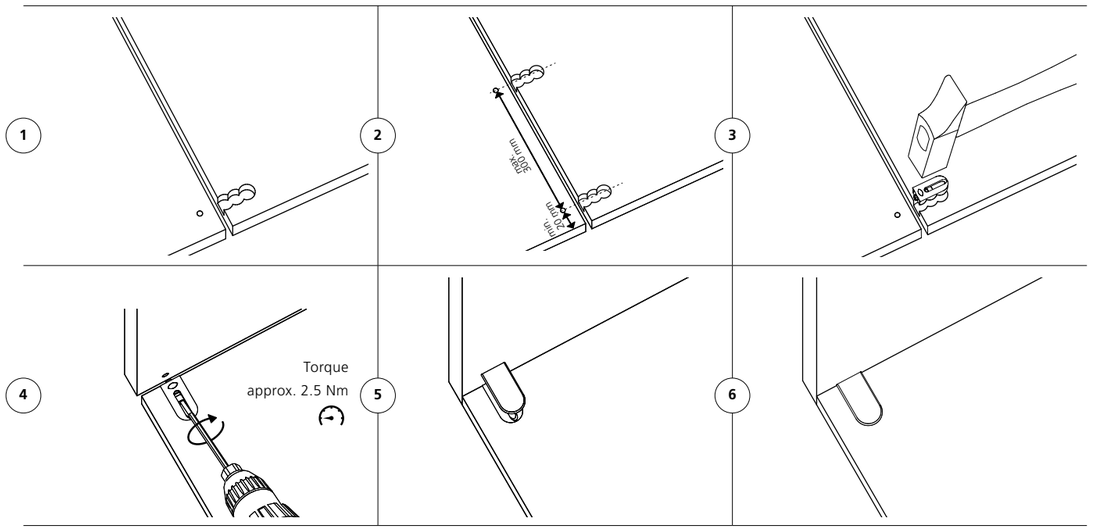
Experience the connector live and receive comprehensive product information!

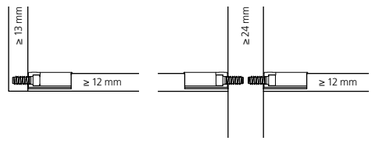
* Original size

Function



Technical data

Joining methods



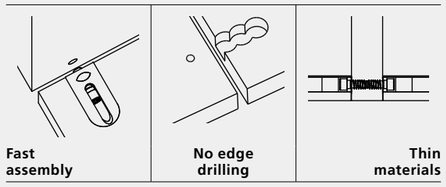
Size	33.8 × 16.5 × 10.8 mm		
Screw length	12 mm		
Cutter	Ø 12 mm or smaller		
Drill	Ø 5 mm and Ø 15 mm		
Material housing	Fiberglass reinforced plastic		
Installation tolerace	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
	900 [1]	850 [1]	900 [1]
	10 N ~ 1 kg		
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 134 – 135** for technical specifications | [1] See comment on load limits on **PAGE 183**

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. Cabineo is available in white or black.

Articles

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

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

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

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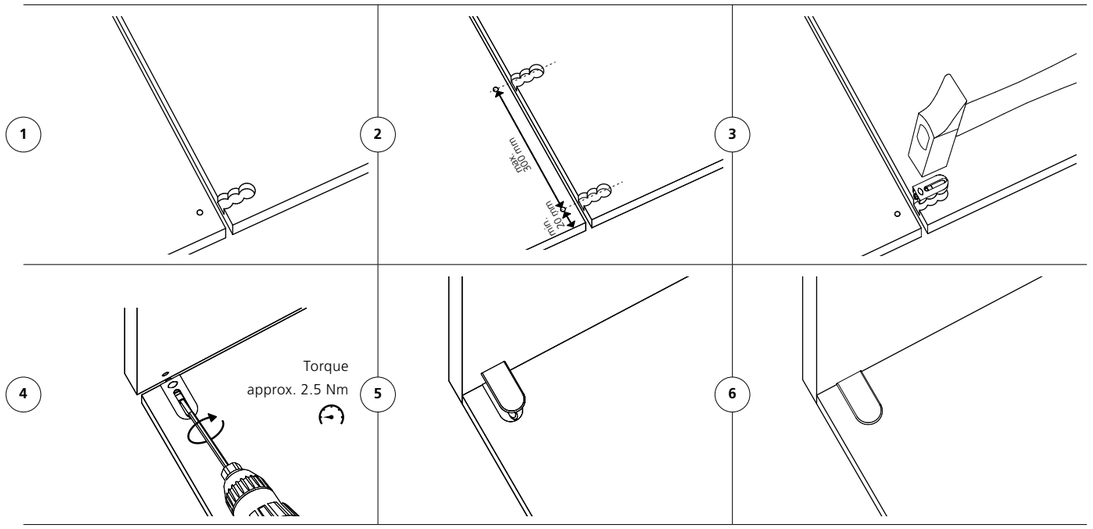
Experience the connector live and receive comprehensive product information!

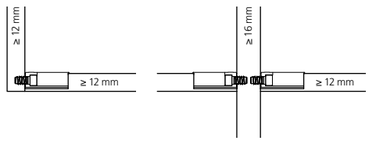
* Original size

Function



Technical data

Joining methods



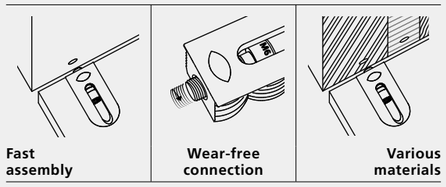
Size	33.8 × 16.5 × 10.8 mm		
Screw length	8 mm		
Cutter	Ø 12 mm or smaller		
Drill	Ø 5 mm and Ø 15 mm		
Material housing	Fiberglass reinforced plastic		
Installation tolerace	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping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

See **PAGE 134 – 135** for technical specifications | [1] See comment on load limits on **PAGE 183**

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

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

Cabineo 8 M6 black	Art. No.
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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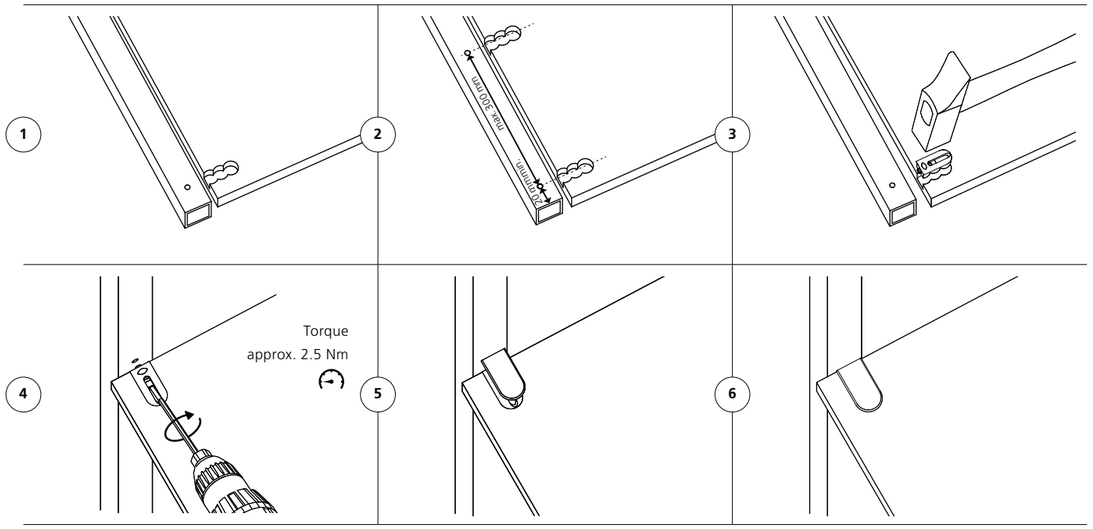
Experience the connector live and receive comprehensive product information!

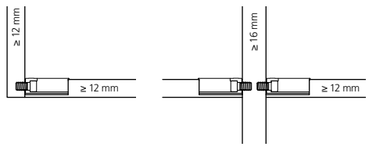
* Original size

Function



Technical data

Joining methods



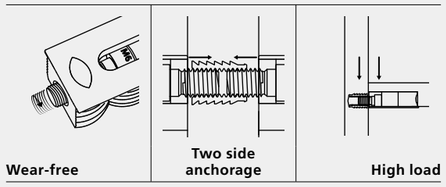
Size	33.8 × 16.5 × 10.8 mm		
Screw length	8 mm		
Cutter	Ø 12 mm or smaller		
Drill	Ø 15 mm		
Screw thread	M6		
Material housing	Fiberglass reinforced plastic		
Installation tolerace	Long. ± 0.1 mm		
Strength per connector without dowel (N)			
In HPL 12 mm Up to	Tensile strength (N)	Shear strength	Clamping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

See **PAGE 134 – 135** for technical specifications | [1] See comment on load limits on **PAGE 183**

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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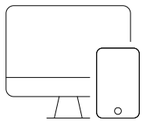
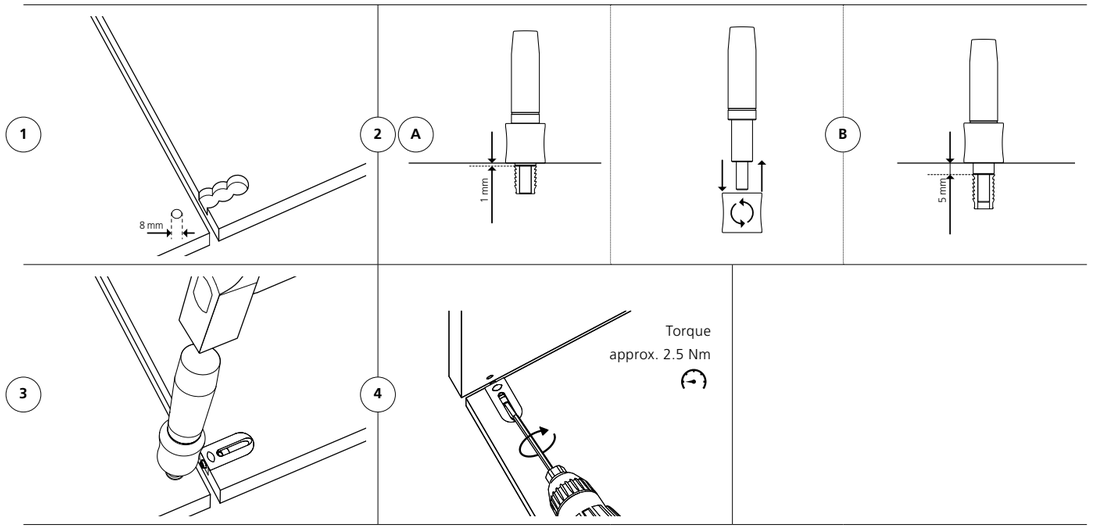


Experience the connector live and receive comprehensive product information!

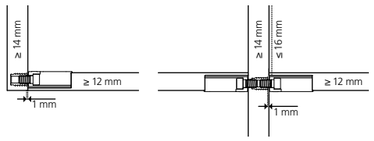
* Original size

Function

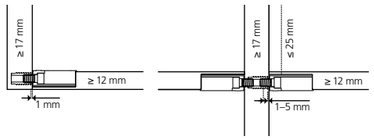


Technical data

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 tolerace	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 135** for technical specifications | [1] See comment on load limits on **PAGE 183**

Advantages of Cabineo

Simple, fast and strong

1.
Advantages
in production

Time-saving in production

- 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

2.
Advantages
in transportation

Time-saving in transportation

- 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

3.
Advantages
in assembly

Time-saving in the assembly

- 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

Manufacturing process with Cabineo

4 surface processing steps
1 tool change

Fit Cabineo into top or bottom shelf

Flat pack the workpieces

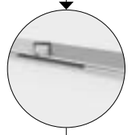
Assemble using a cordless drill

Manufacturing process with cam

3 surface processing steps
2 tool changes

2 edge drill holes
1 tool change

Prepare fitting bag



Flat pack the workpieces

Insert cam into shelf

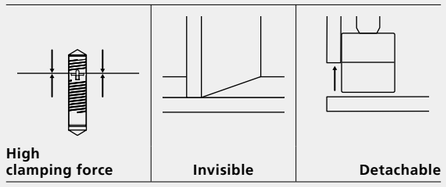
Install the screw in the side
Insert dowel into the side

Assemble using a screwdriver

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.
With 14 mm Invis Mx2 stud, 20 pairs	**6012300**

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

Invis Mx2 Starter set	Art. No.
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	**6100300**

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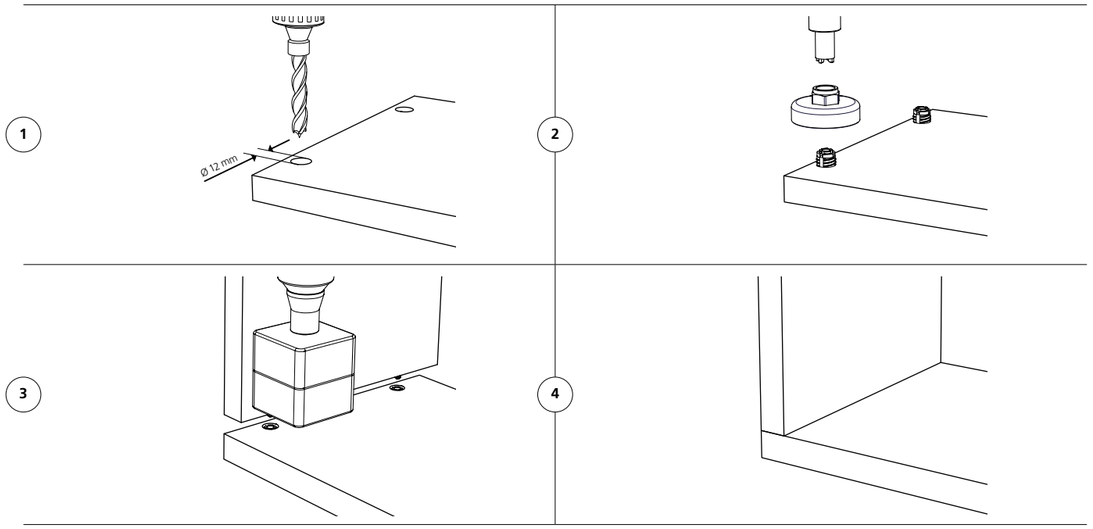
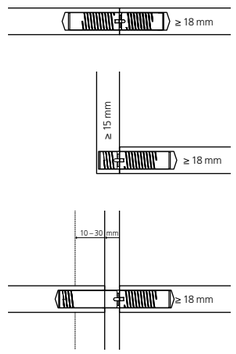
Function



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	Must be 1200–1500 rpm^{-1}		
Material housing	Zinc		
Installation tolerace	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 136 – 137** for technical specifications | [1] See comment on load limits on **PAGE 183**

Articles

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

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

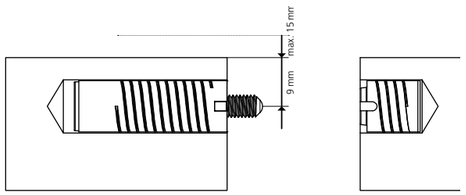
Invis Mx2 stud 30 mm	Art. No.
20 pieces	**6012309**

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

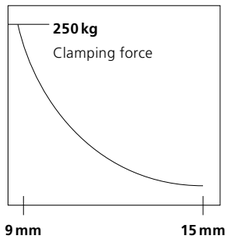
Invis Mx2 MiniMag	Art. No.
Incl. screw bit	**6100301**

Function

1



2

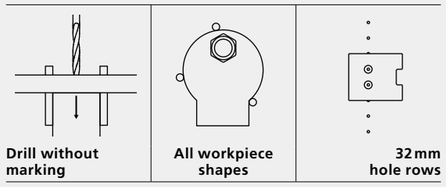


Small distance from the edge for high clamping force

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.

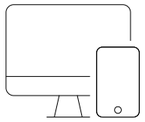
Articles

Rasto Duo set	Art.Nr.
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	**126002**

Rasto Basic set	Art.Nr.
In a cardboard box: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 positioning bolts, 1 fastening screw	**126005**

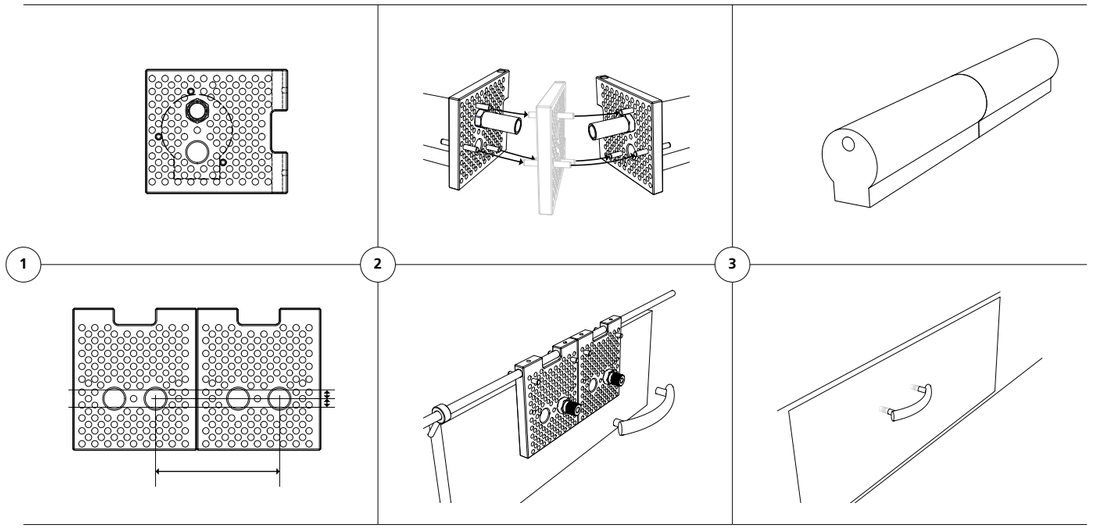
Rasto Mono set	
In a systainer: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm, 3 positioning bolts, 1 fastening screw, 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush	**126001**

www.lamello

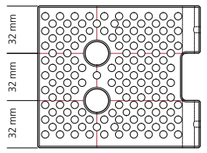


Experience Rasto live and receive comprehensive product information!

Function



Technical data

Rasto perforated plate		
	Size Rasto plate	110 × 96 × 12 mm
	Material Rasto plate	Polycarbonate (abbreviation: PC)

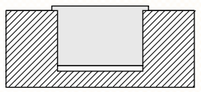
Technical information

Machining Cabineo

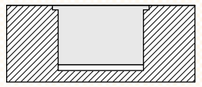
All details in mm

Installation options

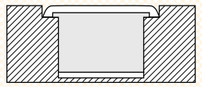
On the surface



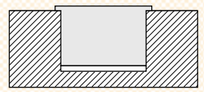
Flush with the surface



Flush cover cap

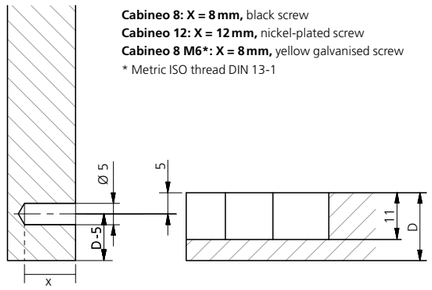


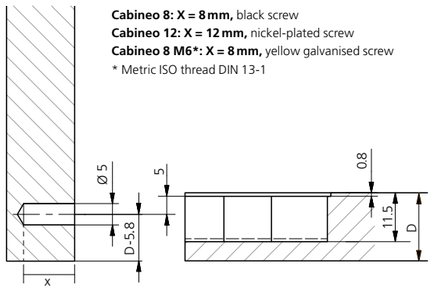
HPL on the surface

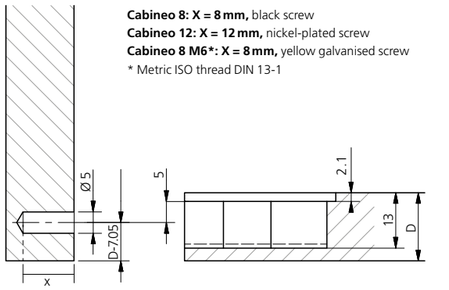


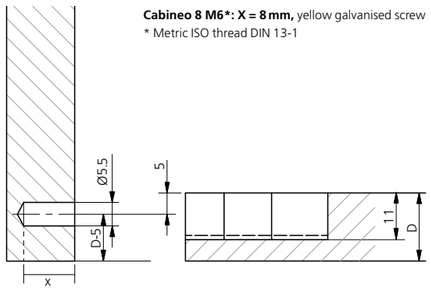
Machining options

Drill 15 mm

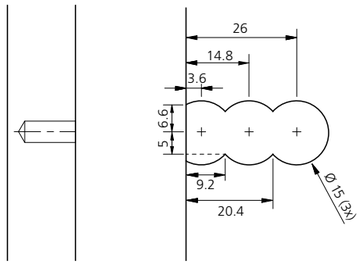




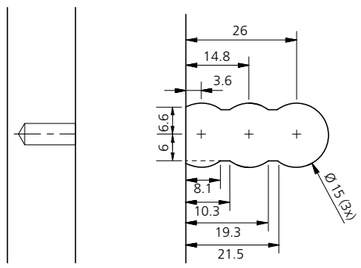




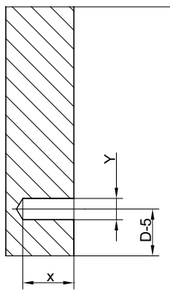
Cutter Ø 10 mm



Cutter Ø 12 mm



Machining Cabineo Insert



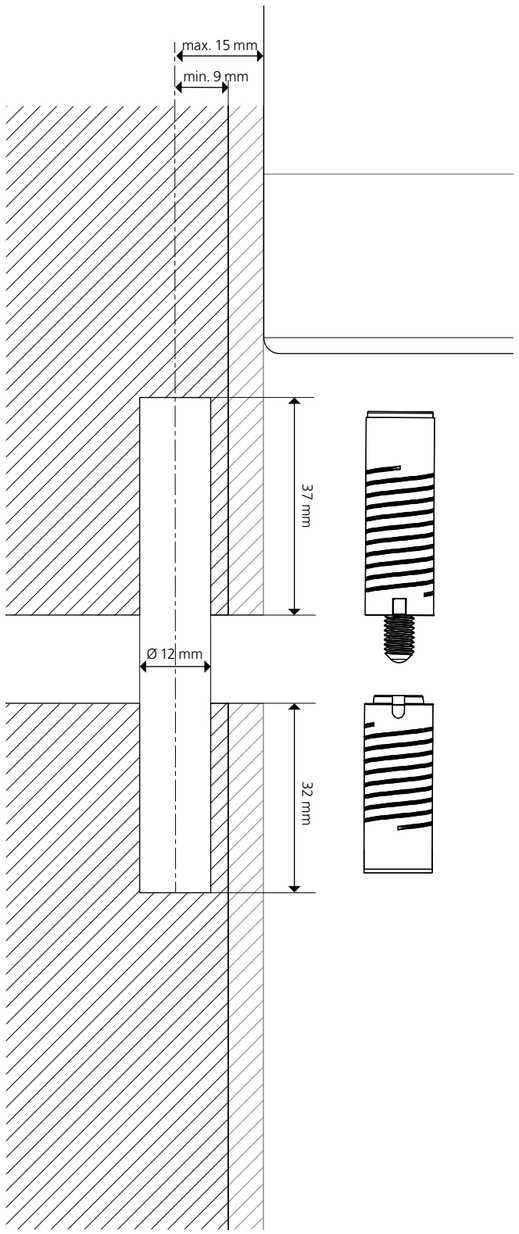
	X	Y = Ø
	[mm]	[mm]
Cabineo 8 M6*	8	5
Insert M6 × 12.3	13.5	8
Insert M6 × 15.3	16.5	8

* Metric ISO thread DIN 13-1

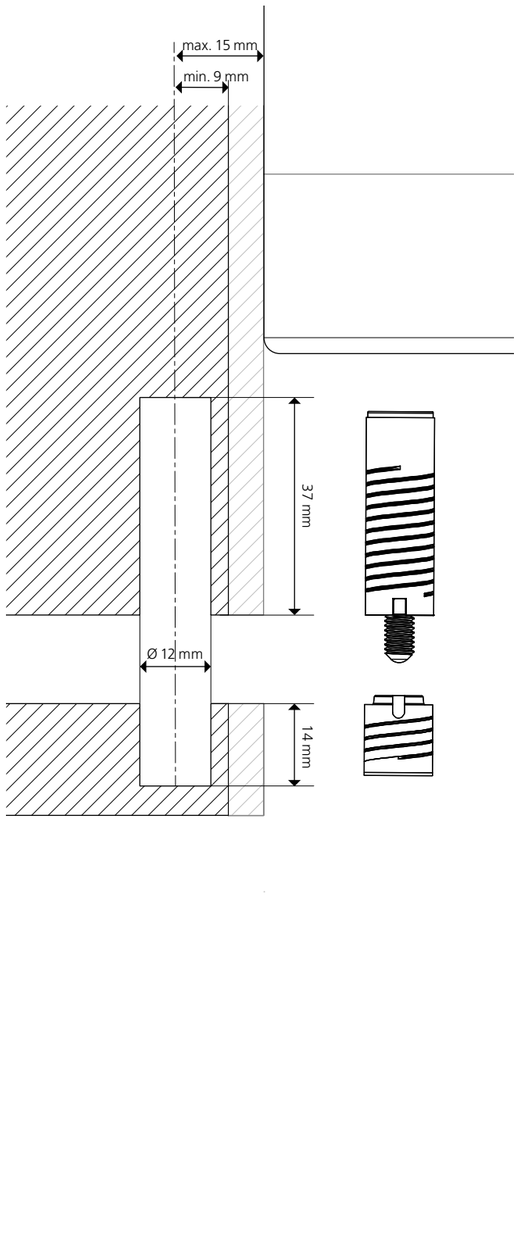
Technical information

Machining Invis Mx2

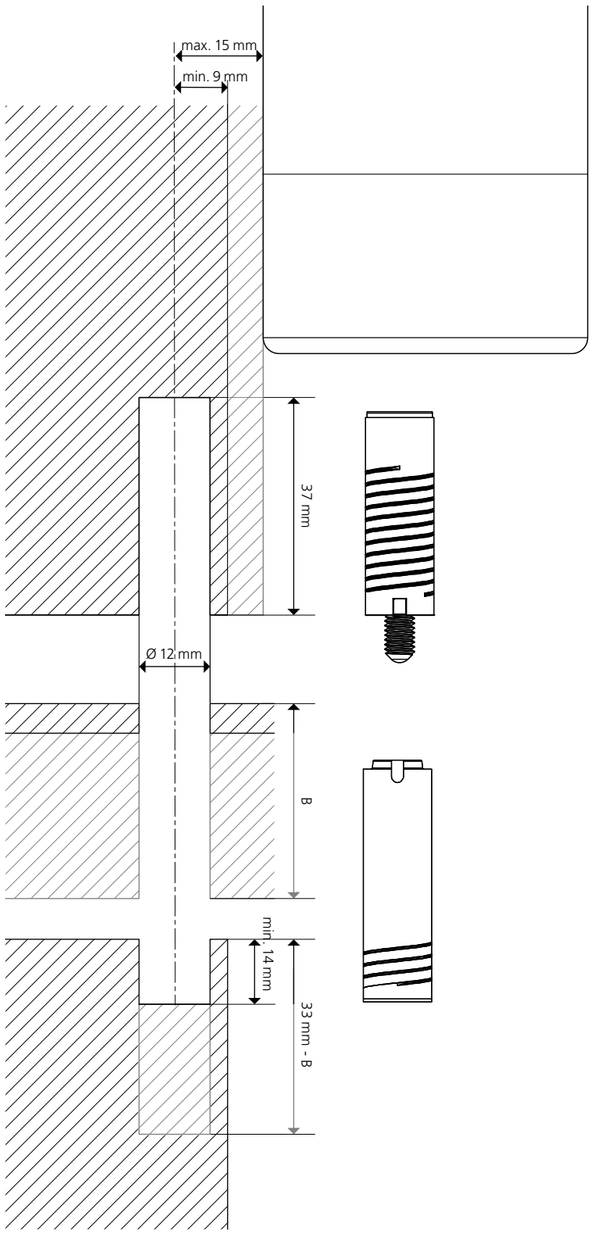
Invis Mx2 stud 30 mm



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 dril/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	**136314**
RH carbide tipped (right hand rotation)	

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

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**

Invis Mx2

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

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

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

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

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

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

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

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

Rasto positioning bolts	Art. No.
Ø 5 × 40 mm	**6160001**

Invis Mx2 spacer	Art. No.
For Rasto	**6112331**

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

Rasto perforated plate	Art. No.
1 piece	**6160000**

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.

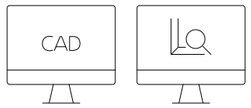
CAD/ERP/CAM software

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

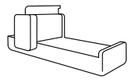
- Design and planning software with integrated Lamello connectors
- Also download CAD data:
  - from the Lamello website
  - from iFurn
  - from specialist retailers (ComNorm)

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

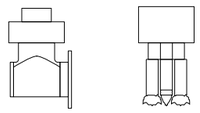
- Machine with 3/4/5-axis

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

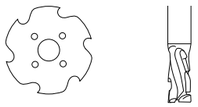
The macro/component determines/affects the processing possibilities



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 milling/drilling connectors.



- Purchase tools from Lamello or a P-System tool partner
  You can find the tools recommended by Lamello on **PAGES 162–164.**

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

Note: These are planning and machining tips, please contact your system providers/specialists if necessary.

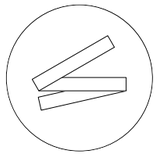
Networked production

Overview of the production process

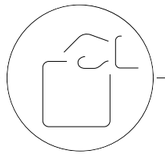
Enabled by Lamello planning and machining partners

Sequence

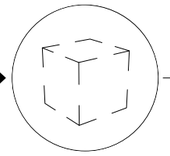
1	2	3	4	5	6	7	8	9
Measurements	The proposal phase	Planning with CAD/configurator/ERP	The bill of material	Procurement	CAM interface CAD/CAM system CNC programming data	CNC machining	Final processing	Dispatch/assembly
				Lamello sales partners				



The room or the object to be machined can be quickly and efficiently measured on site using a room scanner and imported directly into CAD. Even in difficult room situations, without scaffolding, ladders or additional assistants.



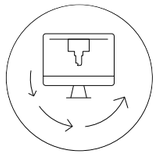
The customer data is recorded, and the calculation and quote are prepared in the industry software, CRM or ERP. If necessary, photo-realistic drawing can also be created for the customer in order to create a life-like impression of the end product.



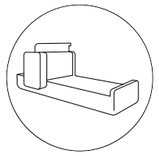
Here, the furniture is drawn with all individual parts, connectors and fittings or generated automatically using the configurator. In this phase, the planner can now select the desired Lamello connectors, which are placed manually or automatically in the workpieces according to parametric rules.
Planning aids on the Lamello website:
- The **«Connector Search»** web tool helps you select the right connectors
- The **«P-System Configurator»** defines the optimal connector positioning at any angle
- The **«CAD Data»** can also be downloaded from the product pages

The parts list can now be generated from the finished CAD file or the data can be imported into the ERP software, where the parts and fitting list can be issued automatically. The material order can now be triggered manually or automatically.

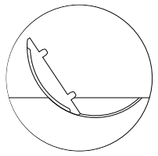
With an online connection to specialist retailers, both digital data exchange and procurement can be automated. For example, this allows the current prices to be queried, availability checked and picking implemented.



One of the most important **«interfaces»** is the transfer of planning data to production. Here, a seamless connection should be established between design, programming, simulation and subsequent production on the CNC machines. The 3D design data can also be used to enter the production information, such as the control of macros, the tool type, approach or milling mode. The CAD data is translated, for example, via a post-processor into an electronic procedure for controlling CNC machines.



The workpieces are now formatted and machined on the machining centre. With the necessary macros for the appropriate units and cutting tools, the desired machining procedures for the connectors are now milled into the workpieces.



After CNC machining, or if the workpieces are ready for further processing, the edges are glued or the surface is painted and the connectors are then installed.

The items of furniture are now ready to be transported to the customer. Ideally, the furniture should be sent as a flat pack, which is no problem at all with the Lamello connectors.

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
Product name		2020 CAD	2020 CAD	SPAZIO3D PROF. + -ENTERP. PLUS	SPAZIO3D JOINERY + INDUSTY 4.0	Pointline CAD	BormBusiness/EVO	Design/Engineer	ERP/Konfigurator
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		●	●	●				

Company		imos	KCD Software	LIGNOCAM	OSD Datensysteme	PaletteCAD	PinCalc	PHYTA	Swiss-all-CAD	TopSolid	TrunCAD	extragroupe	rwdm.ch	Tibek	Eficad
Product name		iX CAD 2021	iX CAM 2021	KCD Software	LIGNOCAM	ERP/PPS	CAD/CAM	Palette CAD	Palette CAM	ERP P123 Corpora	CAD/CAM P305	3D CAD	AutoCAD/ZWCAD/BricsCAD	Matrizen – Excel – CAM	Matrizen – ERP – Manager
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			●	●		●								

Company		Matrizen – ERP – Manager	Wood CAD	Wood CAM	TrunCAD	VECTORWORKS	rwdm.ch	SmartWOP	SWOOD Design	SWOOD Service Center	SWOOD CAM/Nesitng
Product name		Matrizen – ERP – Manager	Wood CAD	Wood CAM	TrunCAD	VECTORWORKS	rwdm.ch	SmartWOP	SWOOD Design	SWOOD Service Center	SWOOD CAM/Nesitng
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			●							●

The information is provided without guarantee; please clarify the exact conditions, options and limits with your planning and machining partners

* iX Net

Service overview

Lamello's planning and machining partners

Machining partner CNC machines/Aggregates/CNC tools

Company		Biesse	Felder	GANNOMAT	HOLZ-HER	Holzfraese	Homag	KOMO	IMA	INFOTEC	Masterwood	SCM, Morbidelli	Vitap	Atemag	Benz Tools	GROTHEFELD	HSD	Leitz	Leuco	Oertli	Utensiltecnica
Product name		CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	CNC machines	Various	Various	Various	Various	Various	Various	Various	Various
		bSolid	NC Hops	bCabinet	F4Integrate	Wood Flash	GANNOMAT Editor	NC Hops	CabinetControl NEO	3D-Master	SmartWOP	WoodWOP	cabinetCreator	IMAWOP	Masterwork/Master 3D	Maestro CNC	Xylog Plus	Software TPA			
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			●			● [1]		●	●		●		●	●						
CNC programming data	Interface with CNC	●	●	●	●	●	●	●	●	●	●		●	●	●	●		●			
	CAD/CAM software	●	●	●	●	●		●	●	●	●		●	●	●	●		●			
	WOP programming software	●	●	●	●	●	●	●		●	●		●	●	●	●	●				
	ISO programming software			●	●					●				● [2]			●				
CNC machining	CNC with consoles	●			●				●			●		●	●	● [3]	●				
	CNC vertical/horizontal (compact)	●			●			●	●			●		●		●	●	●			
	CNC nesting	●			●				●		●	●		●	●	●	●				
	Aggregates	●			●				●			●				●	●	●	●	●	●
	CNC tools																		●	●	●

The information is provided without guarantee; please clarify the exact conditions, options and limits with your planning and machining partners

1 Optional 2 Open architecure / G-Code ISO 6983 3 Hybrid with Nesting

P-System with CNC

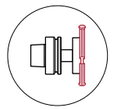
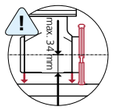
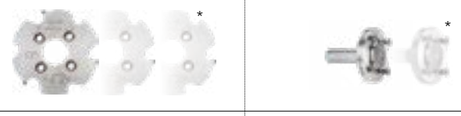
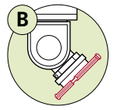
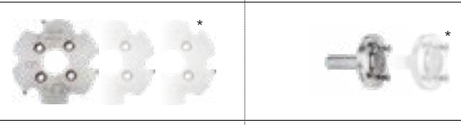
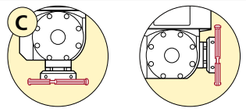
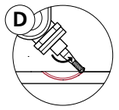
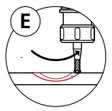
Joining methods and requirements for
CNC machines/machining options

CNC machines		With pod and rails/ 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					C				G		G	
	Profile groove on the surface (close to the edge)	A	E	F		C			E	F	D	A	F
	Profile groove on the surface (centre of the surface)*	A	E	F		C	A		E	F	D	A	F
	Access drill hole 45°					C							
	Access drill hole 45°	B				C							
	Access drill hole 22 – 108°					C							
	Access drill hole 22 – 108°					C							

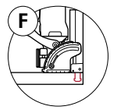
* The Divario P-18 can also be used as an alternative connecting element in the middle of the surface. (2 × 8 mm holes without profile groove)

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.

Additional explanations for the requirements of the CNC machines/machining options

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 162**
				**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 162/163**
A 				**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
B 				**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
C 				**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
D 				**Shrink chuck** for clamping Ø 12 × 40 mm and shaft tool 131342 or **collet chuck** for clamping Ø 12 × 40 mm and shaft tool 131342	P-System CNC shaft tool cutter on **PAGE 163.**
E 					

Positioning drill holes for the Zeta P2

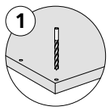
F 

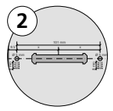
Positioning pin CNC for Zeta P2*, 2 pieces	Art. No.
Ø 5 mm	**251048**
Ø 8 mm	**251066**

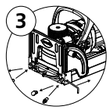
G

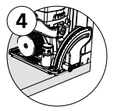
Positioning clip CNC for Zeta P2*	Art. No.
Ø 6 mm	**251067**
for positioning in the Clamex P access hole (6 mm)	

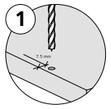
Machining steps

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

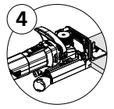
3 
Insert the positioning pins in the Zeta P2

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

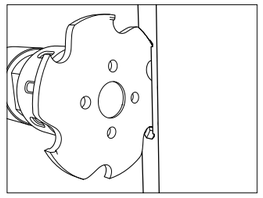
4 
Cut the groove with the positioned machine

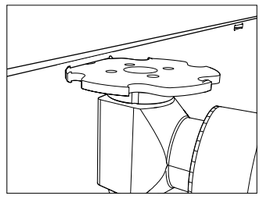
* You can find further Lamello tools on **PAGES 162 – 163**

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.

P-System equipment options

For CNC machines for particularly efficient machining





Vertical and horizontal CNC machining centres «CNC compact class»

HOMAG

DRILLTEQ V-500
25-spindle +
1× aggregate (VKNR 1549)
1× tool set (VKNR 9763)

❶ · ❷ · ❸

HOLZHER

EVOLUTION 7405 Connect

❶ · ❷ · ❸

BIESSE

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

❶ · ❷ · ❸

BIESSE

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

❶ · ❷ · ❸ · ❹

masterwood

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

❶ · ❷ · ❸

morbidelli

cx 210
1× aggregate
2× P-System CNC
groove cutters
1× P-System CNC cutter arbor
1× drill Ø 6 mm

❶ · ❷ · ❸

HOLZHER

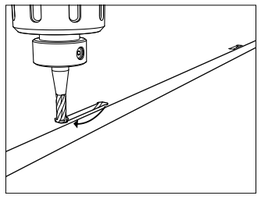
Nextec 7707
1× tool set

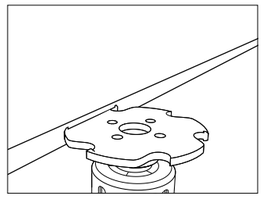
❶ · ❷ · ❸

Vitap

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

❶ · ❷ · ❸





FORMAT

Creator 950
1× P-System CNC
groove cutter in HSK63F
1× P-System CNC shaft tool
cutter* in HSK63F
1× drill Ø 6 mm

*optional for P-System CNC
shaft tool cutter:
1× aggregate for 90°
1× P-System CNC groove cutter

❶ · ❷ · ❸

GANNOmat

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

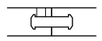
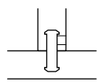
❶ · ❷ · ❸

HOMAG

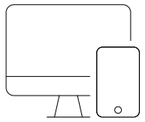
DRILLTEQ V-200
woodWOP «Lamello P-System»
component
1× P-System tool set

❶ · ❷ · ❸

Connectivity

Surface 180°	Corner 90°	Centre wall 90°	Mitre 2× 45°
			

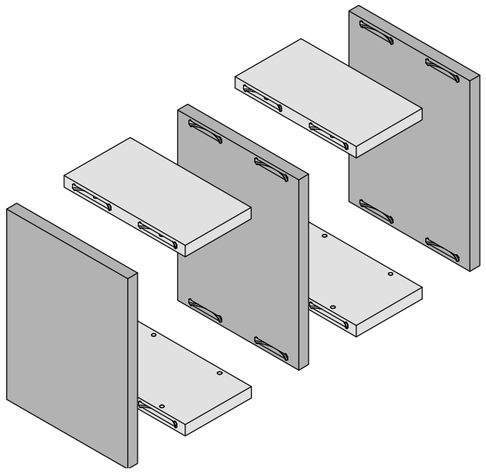
www.lamello



Experience CNC live and receive comprehensive product information!

Ideas for standardising

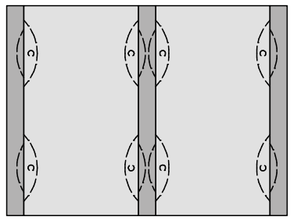
The machining on a CNC machine



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)

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



	Art. No.
Clamex P-14 CNC	
2000 pieces sorted element with lever	**145388**
Clamex P-14	
2000 pieces element with lever	**145338**
Clamex P-14/10 Flexus	
2000 pieces element with lever	**145318**
Clamex P-10	
2000 pieces element without lever	**145358**
Clamex P-10 Medius	
2000 pieces element without lever	**145369**

« 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

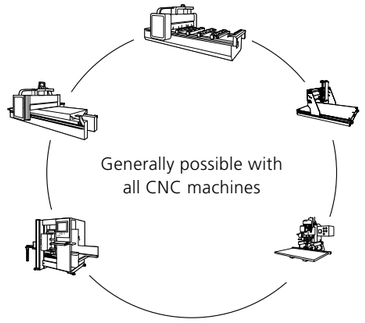
Cabineo with CNC

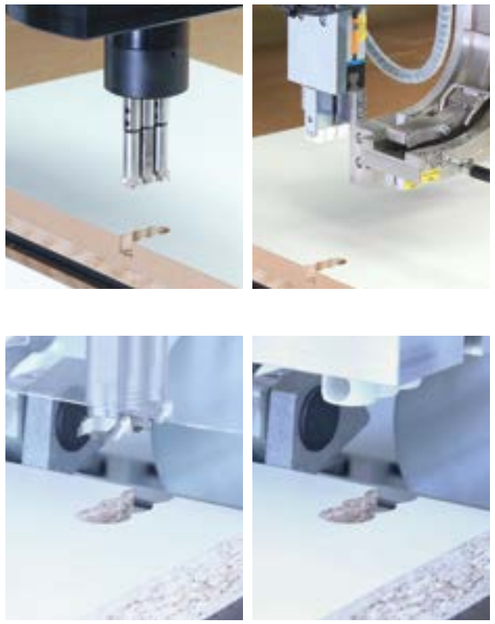
Specific equipment options for CNC machines for Cabineo

CNC machine

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

Gannomat Basica Variabel 0194
First, the 3 spindle aggregate drills the 15 mm drill holes in one plunge. Following this, the Cabineo is held by an insertion aggregate and is pressed into the board. The 5 mm holes for the Cabineo screw are drilled either with the boss hinge aggregate or the 11 spindle shelf pin aggregate.





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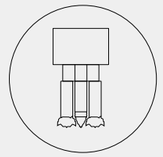
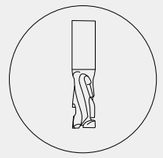
Experience CNC live and receive comprehensive product information!



CNC tools - aggregate

Benz 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

Leitztriple 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 × 7 mm	Art. No.
Ø 100.4 × 7 × Ø 30 mm, Z3, NL 4 × Ø 6.6 × Ø 48 mm suitable for all P-System CNC cutter arbor listed on the right	**132142**

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

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

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

	Art. No.
Ø 100.4 × 7 × Ø 35 mm, Z3, NL 4 × Ø 5.5 × 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 × M4 × Ø 48 mm	Art. No.
Shaft Ø 20 × 50 mm, L = 102 mm	**132150**

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

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

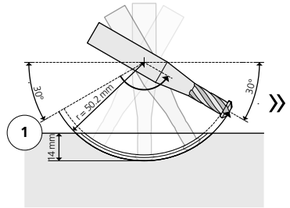
	Art. No.
Shaft Ø 16 × 55 mm, L = 68 mm	**132153**

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

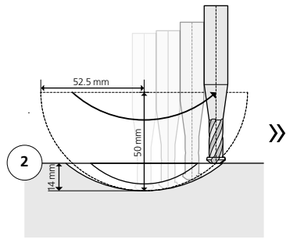
	Art. No.
Shaft Ø 20 × 50 mm, L = 85 mm, with clamping surface (2°- angle) e.g. for aggregate for door locks	**132155**
M6 × 16 mm Torx countersunk bolt, 4 pieces, suitable for cutter arbors	**132159**
Screwdriver with cross-grip, Torx T20 × 100 mm	**271919**

P-System CNC shaft tool cutter	Art. No.
HW solid (carbide), shaft Ø 12 × 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 dril/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	**136314**
RH carbide tipped (right hand rotation)	

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

« We have tried out and compared many connectors. Processing for the Cabineo is extraordinarily simple, and allows us to make significant time savings throughout the production process. »

Andreas Derrer, Owner and Managing Director, Schreinerei Derrer AG, Dielsdorf, Switzerland

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	**145312**

P-System connector assortment basic	Art. No.
Scope of delivery: 80 pairs Clamex P-14, 80 pairs Tenso P-14 incl. clip, 60 pairs Clamex P-14/10 Medius, 20 pieces Bisco P-14, Tenso P-14/10 preload tool, Systainer II T-Loc incl. compartment dividers	**145314**

Clamex P

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

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

335282

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

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

335282

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

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

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

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

Accessories / Spare Parts

P-System

Combination CNC and Zeta P2

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

Positioning clip CNC for Zeta P2*	Art. No.
Ø 6 mm	**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**

* For detailed information, see **PAGE 154**

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.
80 pairs in Systainer Size I, incl. installation tool and marking jig in metal	**145551**

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 m, 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**

Accessories / Spare Parts

Lamello System

Lamello System

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 m, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**

Systainer II T-loc	Art. No.
Systainer II T-loc, empty	**331565**
Insert with two partitions for systainer II	**360018**
Insert systainer II T-loc for Zeta P2/Top21/Classic X	**360014**

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

	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, Ø 100 × 4 × Ø 22 mm	Art. No.
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, Ø 100 × 4 × Ø 22 mm	Art. No.
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, Ø 100 × 8 × Ø 22 mm (Clamex S-18 connector)	Art. No.
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**

Accessories/ Spare Parts

Lamello System

Lamello System

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

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

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

	Art. No.
Flange M8 to saw blades	**252502**

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

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

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 m¹	**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**

Invis Mx2

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

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

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

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

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

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

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

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

Rasto positioning bolts	Art. No.
Ø 5 × 40 mm	**6160001**

Invis Mx2 spacer	Art. No.
For Rasto	**6112331**

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

Rasto perforated plate	Art. No.
1 piece	**6160000**

Overview of connectors

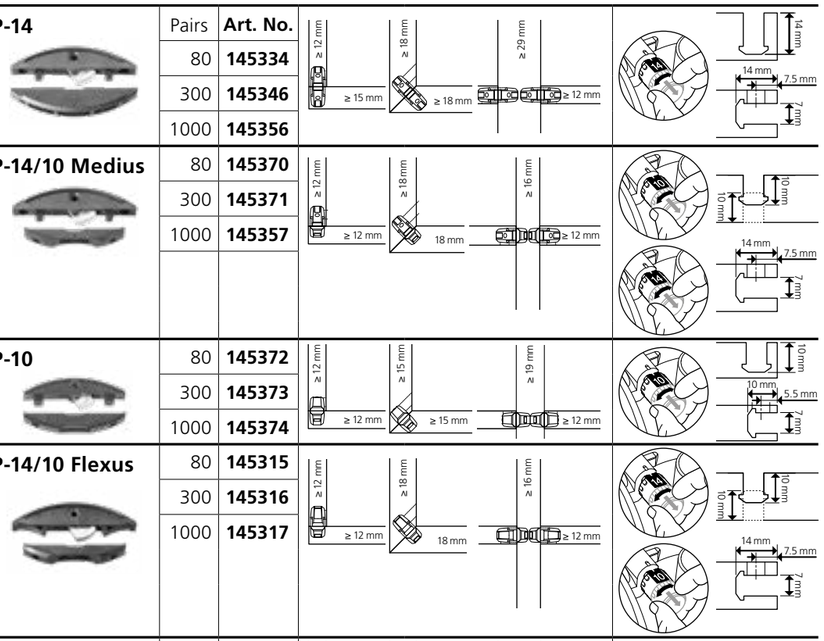
P-System

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

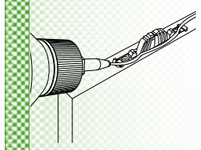
P-System groove cutter HW (carbide),
Ø 100.9 × 7 × Ø 22 mm — Art. No.
Z3, 4 NL for Zeta P2 — **132141**

Clamex P
Detachable

	Pairs	Art. No.
Clamex P-14	80	**145334**
	300	**145346**
	1000	**145356**
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
Glued

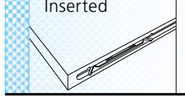


	Pairs	Art. No.
Tenso P-14	80	**145415**
	300	**145425**
	1000	**145435**

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

	Pairs	Art. No.
Tenso P-10	80	**145418**
	300	**145428**
	1000	**145438**

Divario P
Inserted



	Pairs	Art. No.
Divario P-18	80	**145550**
	300	**145560**
	1000	**145570**

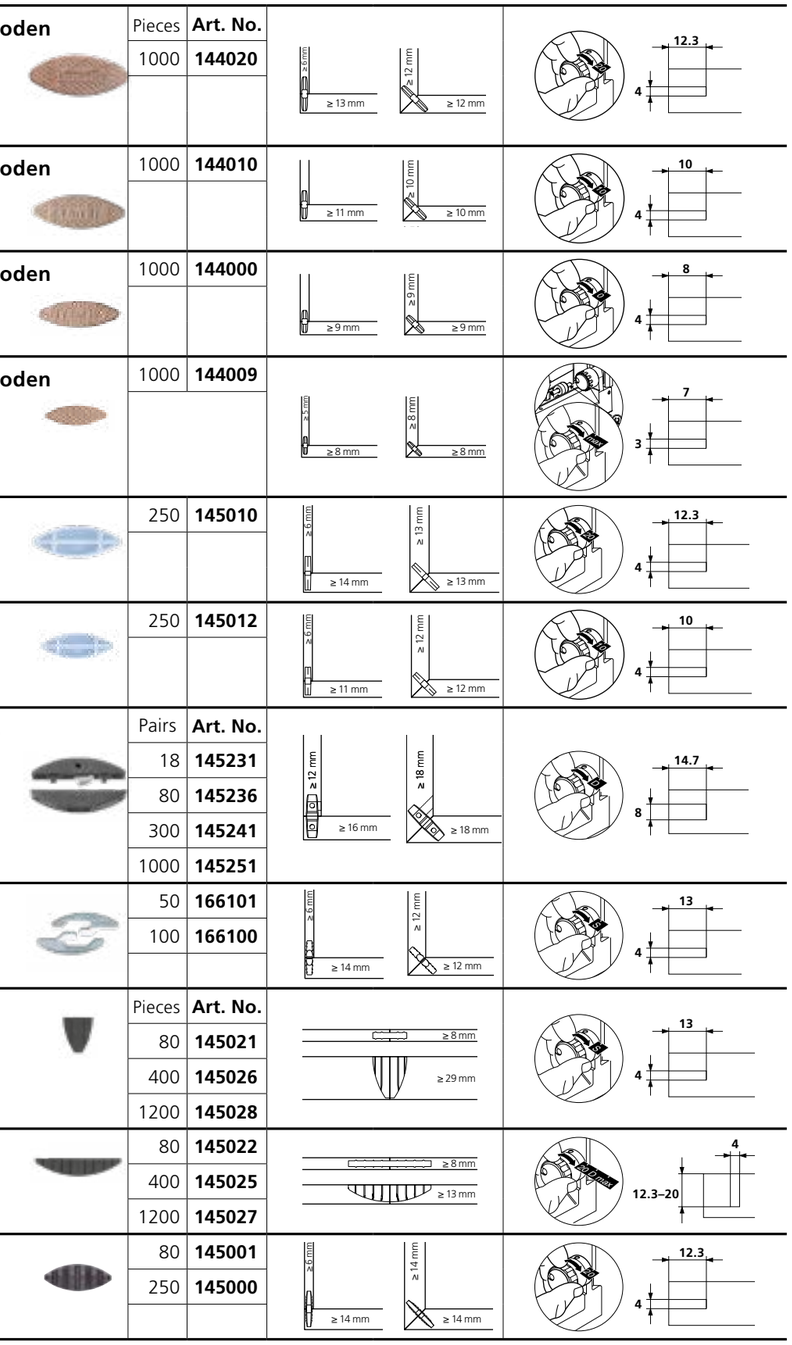
Overview of connectors

Lamello System

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

Groove cutter HW (carbide),
Ø 100 × 4 × Ø 22 mm — Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X — **132106**

		Pieces	Art. No.
Detachable	**Original wooden biscuit 20**	1000	**144020**
	Original wooden biscuit 10	1000	**144010**
	Original wooden biscuit 0	1000	**144000**
	Original wooden biscuit H9	1000	**144009**
	C20	250	**145010**
	C10	250	**145012**
Glued	**Clamex S-18**	Pairs	Art. No.
		18	**145231**
		80	**145236**
		300	**145241**
		1000	**145251**
	Simplex	50	**166101**
		100	**166100**
Hammered	**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

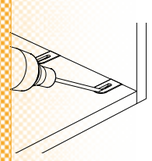
Drilling System

Cabineo drill/cutter	Art. No.
Cabineo drill Ø 15 mm with short centering point	**136312**
Cabineo cutter Ø 10 mm	**136310**
Cabineo cutter Ø 12 mm	**136311**

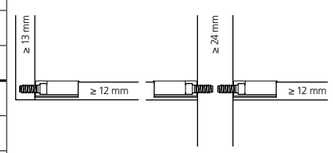
1 **Cabineo 8: X = 8 mm**, black screw
2 **Cabineo 12: X = 12 mm**, nickel-plated screw
3 **Cabineo 8 M6*: X = 8 mm**, yellow galvanised screw
* Metric ISO thread DIN 13-1

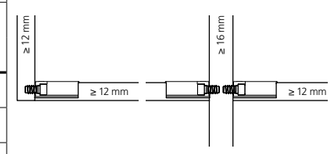
Cabineo

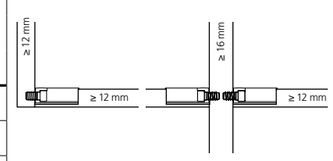
Detachable

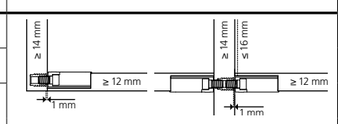


	Pieces	Art. No.
Cabineo 12	500	**186320**
	2000	**186321**
Cabineo 12 black	500	**186330**
	2000	**186331**
Cabineo 8	500	**186310**
	2000	**186311**
Cabineo 8 black	500	**186340**
	2000	**186341**
Cabineo 8 M6 metric thread M6	500	**186315**
	2000	**186316**
Cabineo 8 M6 black metric thread M6	500	**186345**
	2000	**186346**
Cabineo insert M6 × 12.3	100	**186370**
	500	**186371**
Cabineo insert M6 × 15.3 for centre panels	100	**186375**
	500	**186376**

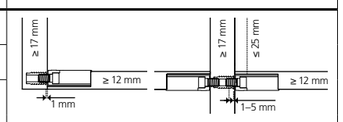






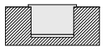


Cabineo insert M6 × 12.3
for material thickness 14–16 mm

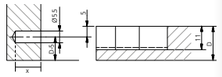


Cabineo insert M6 × 15.3
for material thickness 17–25 mm

On the surface [1, 2, 3]

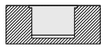


Installation options

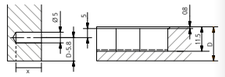


Machining options

Flush with the surface [1, 2, 3]

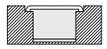


Installation options

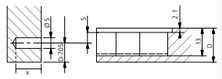


Machining options

Flush cover cap [1, 2, 3]

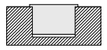


Installation options

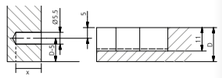


Machining options

HPL on the surface [3]

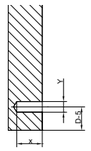


Installation options



Machining options

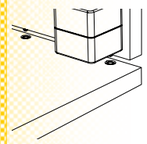
Machining Cabineo Insert



Invis Mx2 Starter set	Art. No.
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	**6100300**

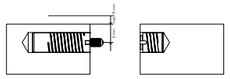
Invis Mx2

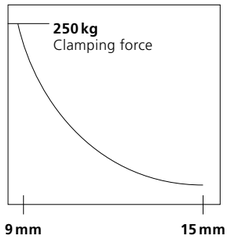
Detachable



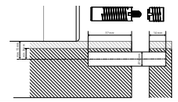
	Pairs	Art. No.
Invis Mx2 connector set with 14 mm Invis Mx2 stud	20	**6012300**
Invis Mx2 connector set with 30 mm Invis Mx2 stud	20	**6012301**

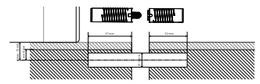
	Pieces	Art. No.
Invis Mx2 connector 35 mm	20	**6012317**
Invis Mx2 stud 14 mm	20	**6012312**
Invis Mx2 stud 30 mm	20	**6012309**
Invis Mx2 centre wall stud 10–30 mm	10	**6012208**

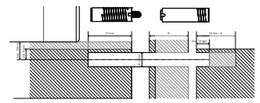




Small distance from the edge for high clamping force







Disclaimer regarding load limits

Wherever we list information on material strength or loads for our products, they are empirical values of load limits, based on specifically defined test conditions similar to DIN 68501:2016-11. Specific characteristics, in particular to the effect that the products will reach the listed loads in the actual used case, are not thereby guaranteed. Rather, it is the responsibility of the respective user to check and ensure the suitability of the products for each specific used case. Since actual load limits substantially depend on circumstances unrelated to the products themselves, e.g. the properties of the carrier materials used, the assembly or the installation environment, any advice provided by us in the form of a product recommendation with regard to a specific suitability is always non-binding and does not release the user from his or her own examination. **To the maximum extent possible under the law, all warranties, express or implied are DISCLAIMED. This includes, but is not limited to, any warranty of fitness for a particular purpose or merchantability. We undertake no responsibility that the goods except as may be included in any contract, and we assume no responsibility that the goods will be fit for any particular purpose, except as may be provided in any contract.**

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