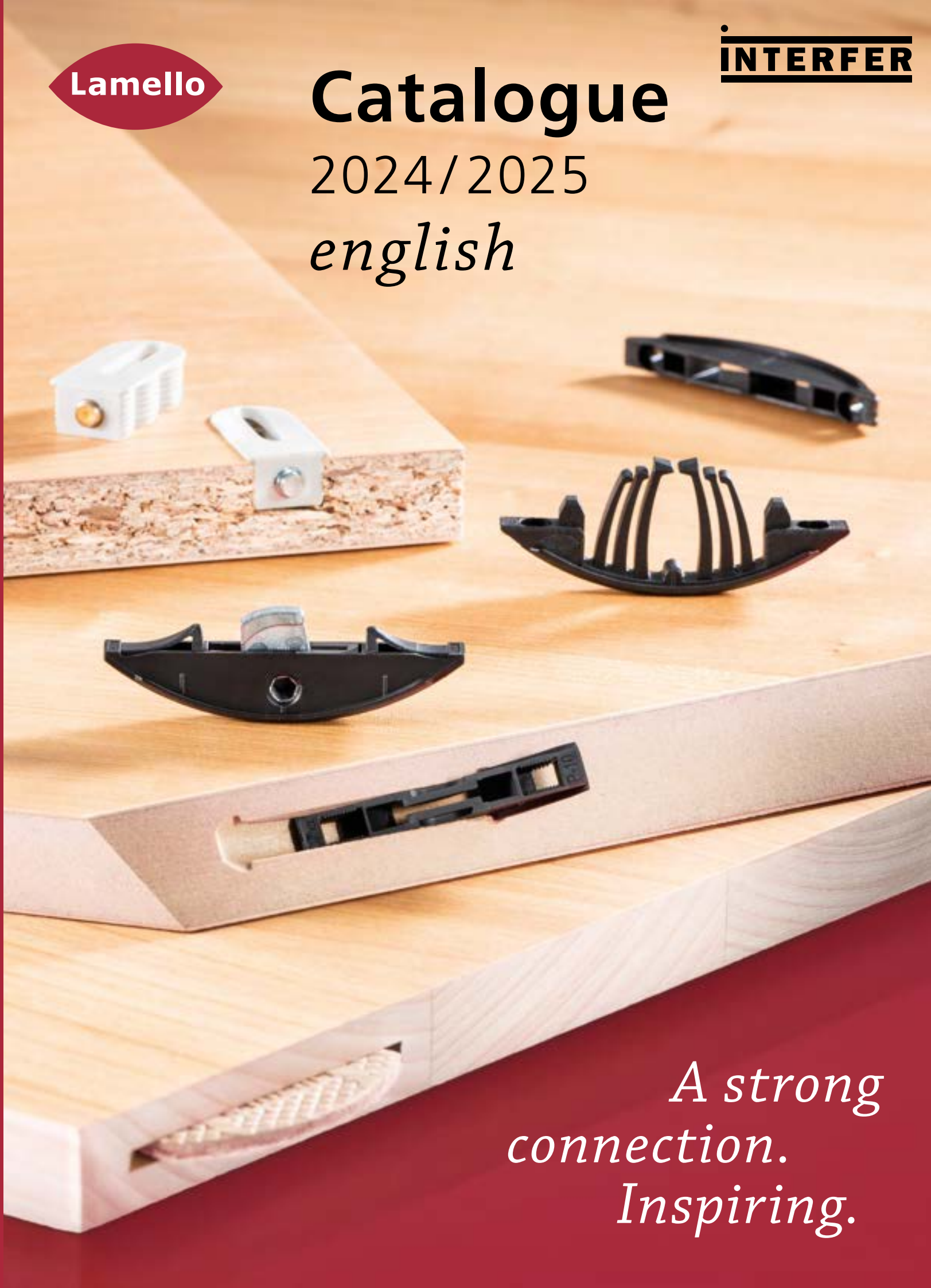
Lamello

INTERFER

Catalogue

2024/2025

english



A strong connection. Inspiring.

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

Susanne Affolter, Owner and President of the Board of Directors



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Subject to modifications and amendments. Plastic parts may vary in colour due to the production process. Colour specifications are for guidance only.

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Together, dynamic and reliable





Far-reaching. Close to home.





INTERFER

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 and Ireland
– Eastern Europe
– Spain and Portugal
– Southeast Europe
– Scandinavia

We are here for you!

Support in person

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

Latest news

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

Our services

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





Support in your planning

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

Qualified sales partners

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

Competent planning and machining partners

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

Looking back. Thinking ahead.

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

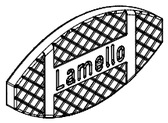
1944

Joinery founded
by Hermann Steiner
in Liestal



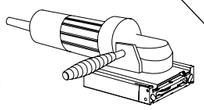
1955

Lamello System
invented by
Hermann Steiner



1958

First stationary Lamello
biscuit joiner LO1



1968

First hand-operated
Lamello biscuit joiner



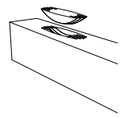
1969

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



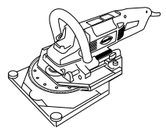
1970

Wood repair system



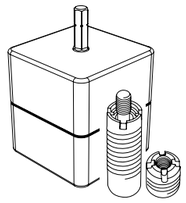
1981

Tanga 150,
window cutter



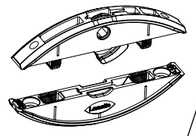
2001

Invis
Interzum award



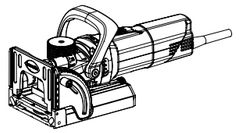
2009

Clamex P
Interzum award



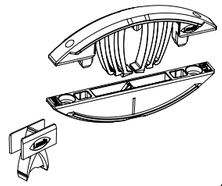
2010

Zeta, power tool for
the P-System



2013

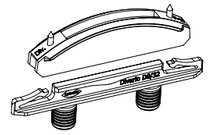
Tenso P-14
Interzum award



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2015

Divario P-18
Interzum award



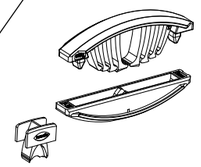
2017

Cabineo CNC
connector



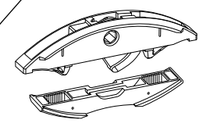
2019

Tenso P-10
Interzum Award



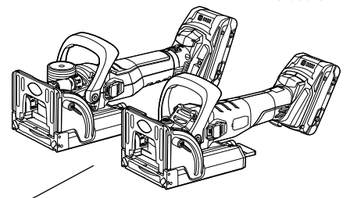
2020

Clamex P-14/10 Flexus
Interzum award



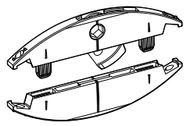
2022

Zeta P2 cordless and
Classic X cordless



2023

Clamex S-20



2024

Cabineo X



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 Clamex S-20 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



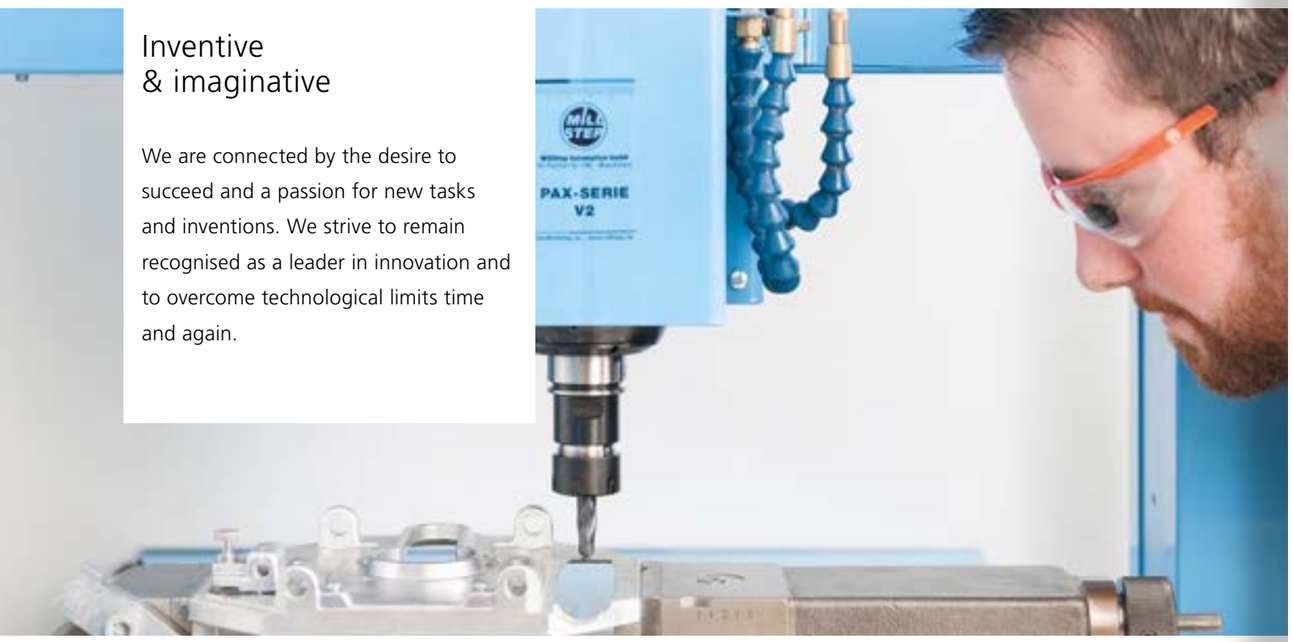
Independent & self-determined

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.



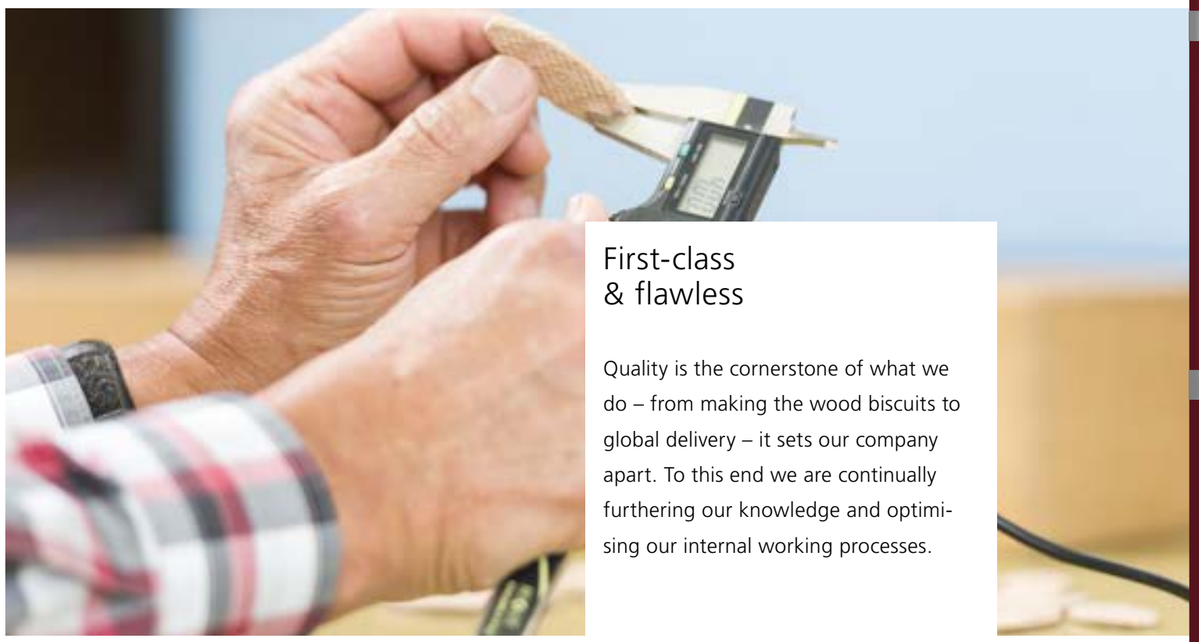
Personal & unconstrained

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

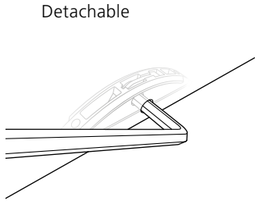
P-System	
Features	Connector

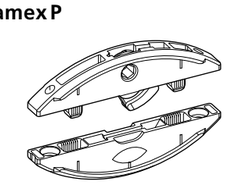
With P-System groove cutter



Detachable

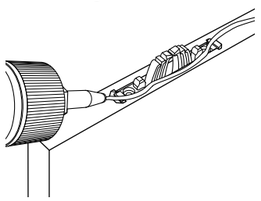
Clamex P

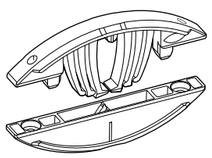




Glueing

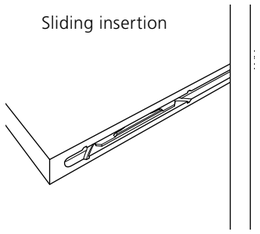
Tenso P

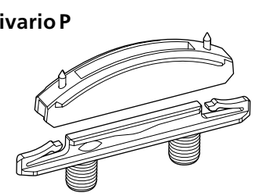




Sliding insertion

Divario P





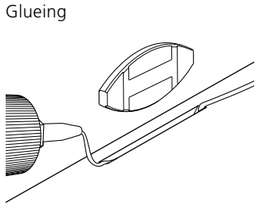
Lamello System	
Features	Connector

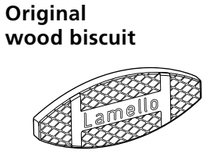
With 4 mm Lamello System groove cutter



Glueing

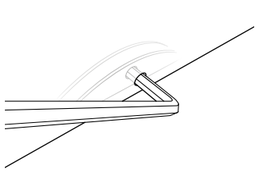
Original wood biscuit

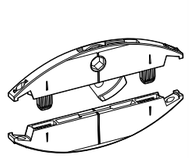




Detachable

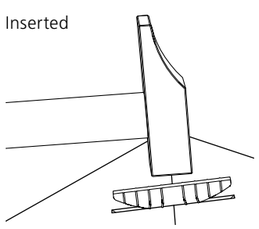
Clamex S

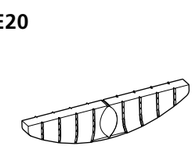




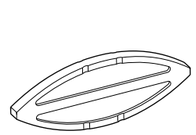
Inserted

E20

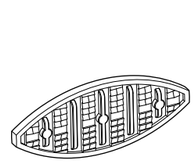




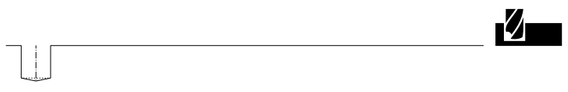
C20



K20

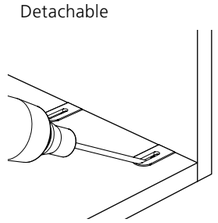


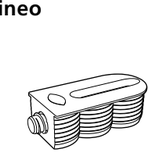
Drilling System	
Features	Connector



Detachable

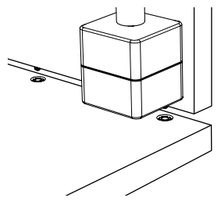
Cabineo

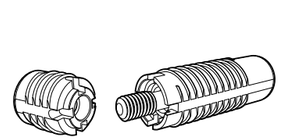




Detachable

Invis Mx2



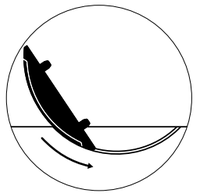


P-System

The time-saving joining system
with form-locking anchoring

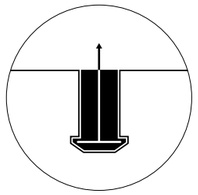
INTERFER

Features



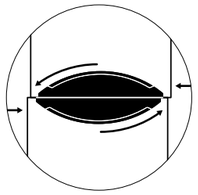
Fast installation

Inserting instead of screwing or glueing



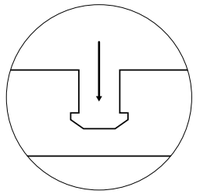
Strong

Form-locking anchorage across large surface areas



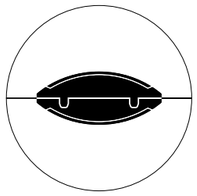
Lateral tolerance

Perfect, flush alignment of both workpieces



Shallow depth

Minimal cutting depth with maximum tensile strength



No twisting

The positioning pins prevent twisting without additional dowels

P-System

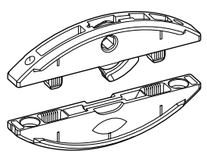
Overview

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

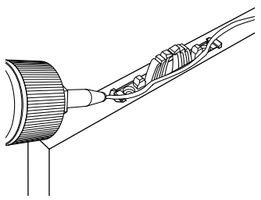
Detachable



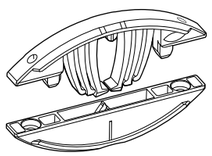
Clamex P



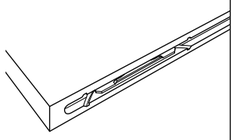
Glueing



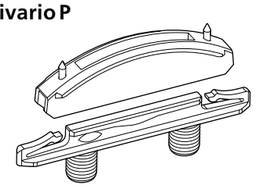
Tenso P

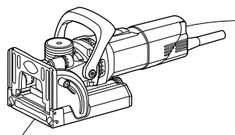


Sliding insertion

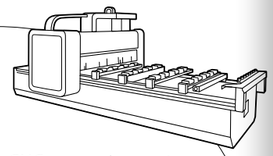


Divario P

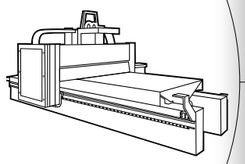




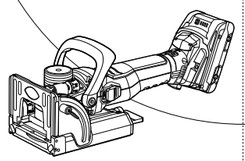
Zeta P2



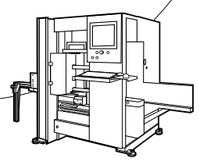
CNC processing centres with **consoles**



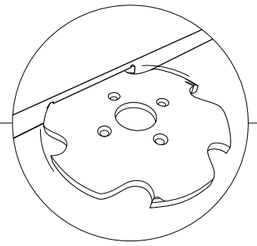
CNC processing centres with **nesting technology**

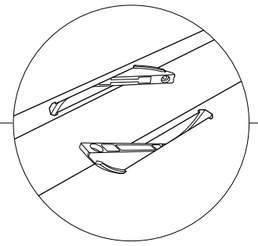


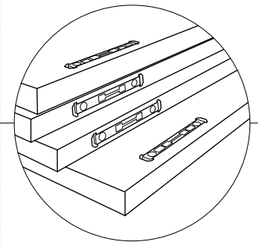
Zeta P2 cordless

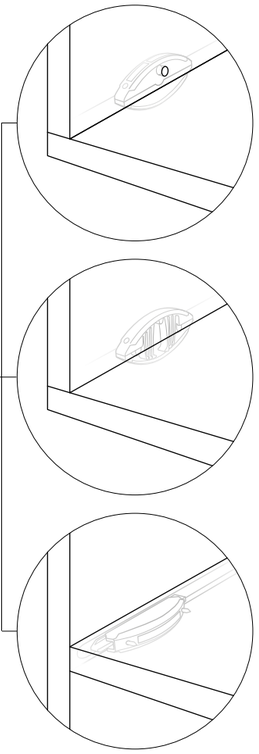


CNC processing centres **vertical**



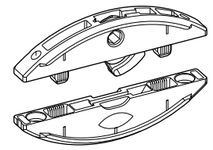






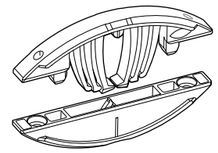
Connectors

Features overview



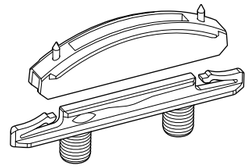
Clamex P

Detachable furniture connector



Tenso P

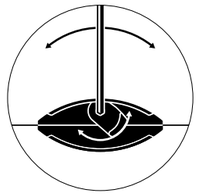
Self-clamping connector for glueing



Divario P

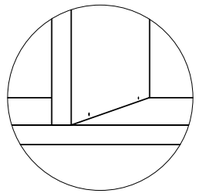
Self-clamping, invisible connector for slide insertion

Features



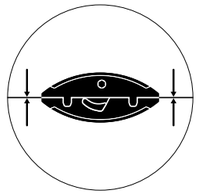
Detachable

Open the connection time and time again with the rotating lever



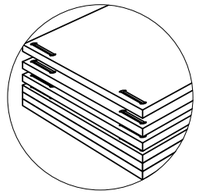
Aesthetic

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



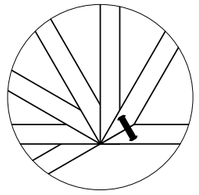
High clamping force

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



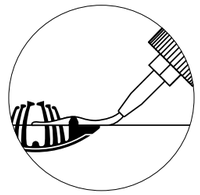
Stackable

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



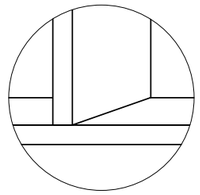
Versatile

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



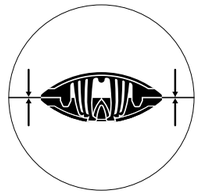
Glueing

Fixed joints of two workpieces



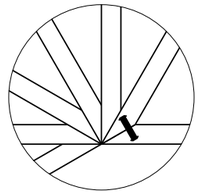
Invisible

No visible connector



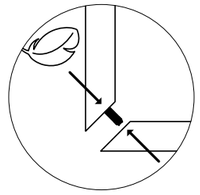
High clamping force

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



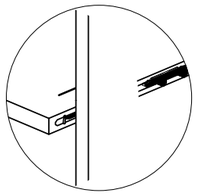
Versatile

Simple glueing of mitre joints



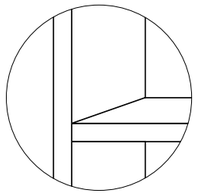
Lower assembly force

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



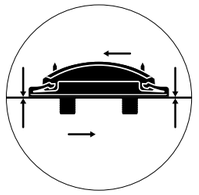
Sliding insertion

Insertion between two fixed sides or shelves via a guiding groove



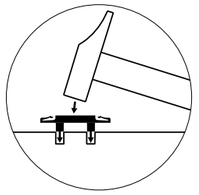
Invisible

Guiding groove covers the connectors



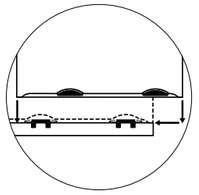
Clamped joint

No resistance while inserting until shortly before building the clamping force



Fast installation

Quick installation of the connectors without glue after transport



Assemble by sliding

Partially routed guiding groove for completely invisible furniture joints

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

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

P-System

Applications

Furniture manufacturing



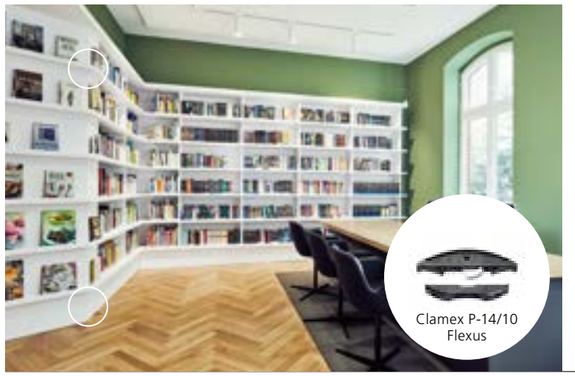




Interior fitting









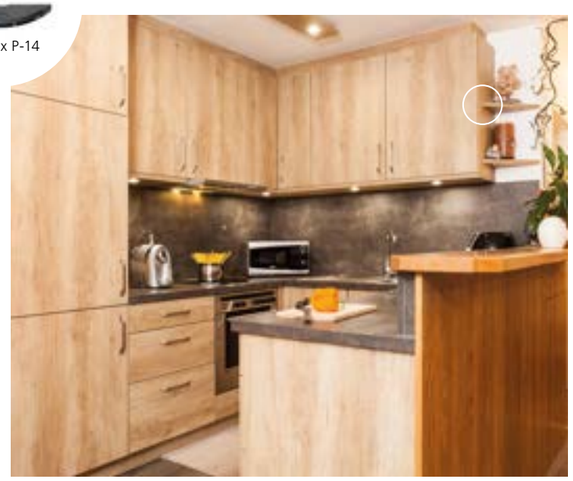
P-System

Applications

Kitchen manufacturing







Clamex P-14

Commercial joinery



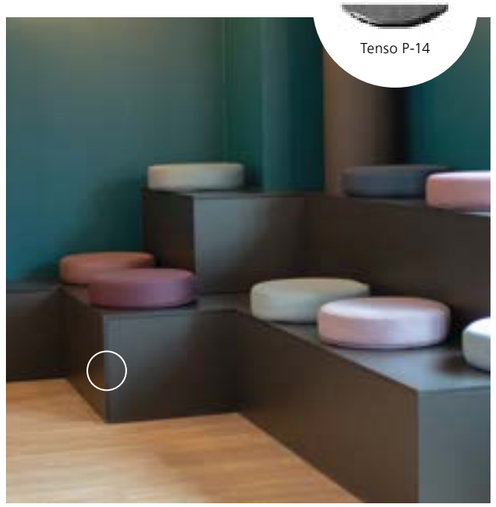
Tenso P-10



Tenso P-14



Clamex P-14 CNC



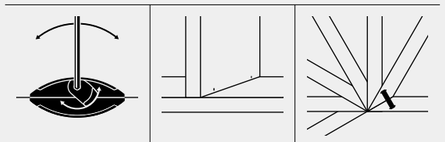
Shop fitting

Clamex P-14

Detachable furniture connector



Features



Detachable | **Aesthetic** | **Versatile**

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

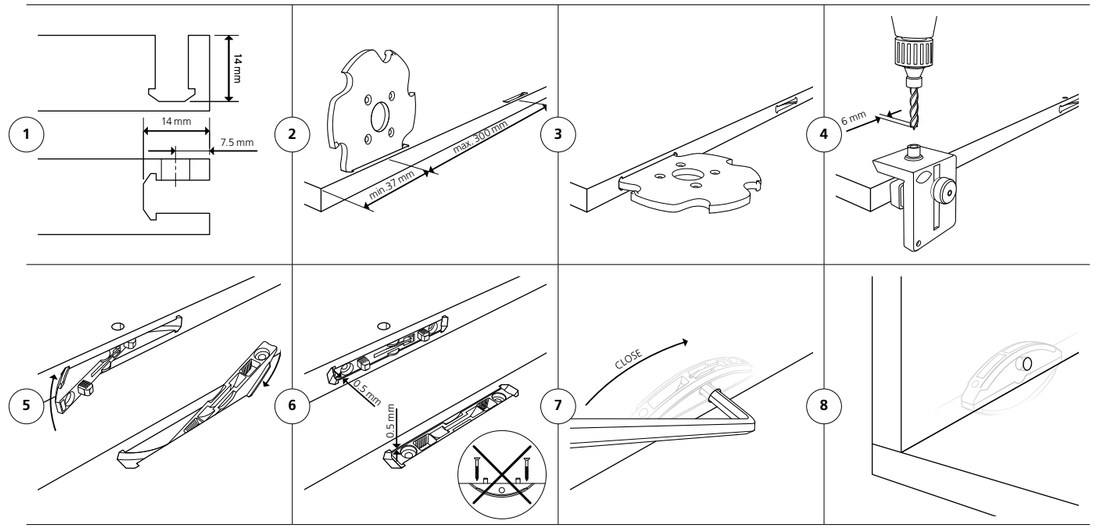


interzum Award

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**

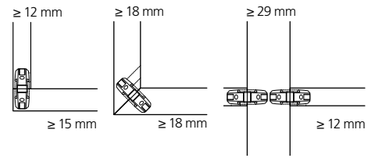
www.lamello.com
Experience the connector live and receive comprehensive product information!

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 1210[1]	Particle board 1070[1]	Beech 1870[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 66** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 70–71**

[1] See comment on load limits on **PAGE 189**

Clamex P-14/10 Medius

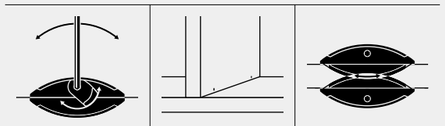
Detachable connector for centre panels for materials from 16 mm thickness







Features



Detachable | **Aesthetic** | **Overlapping insertion**

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.



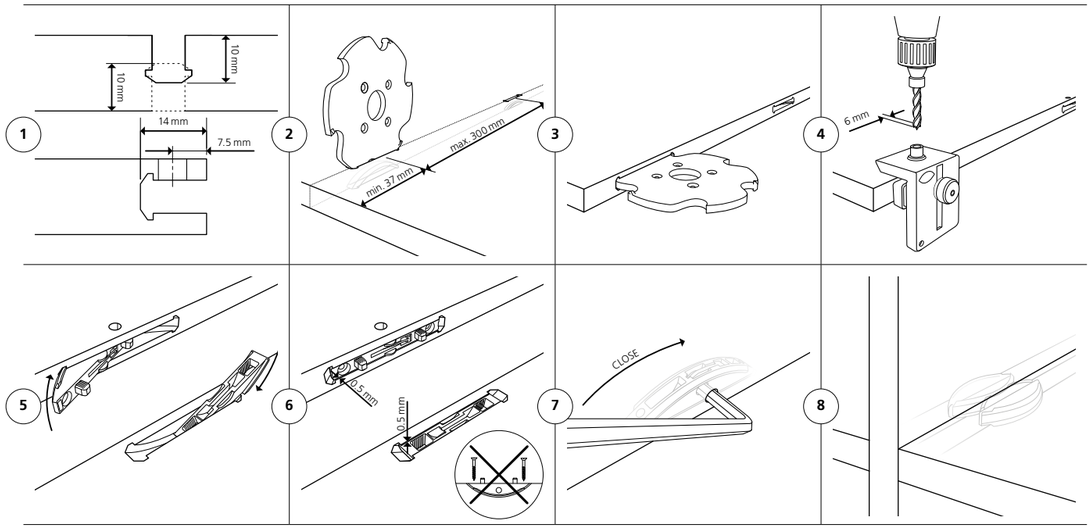
Articles



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**

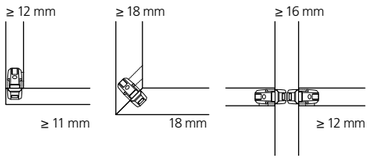
www.lamello.com
Experience the connector live and receive comprehensive product information!

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 810[1]	Particle board 620[1]	Beech 1100[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 66** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 70–71**

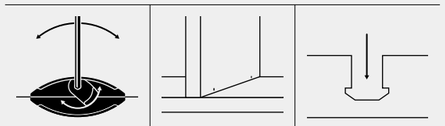
[1] See comment on load limits on **PAGE 189**

Clamex P-10

Detachable connector for materials from 12 mm thickness



Features



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

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

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

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

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



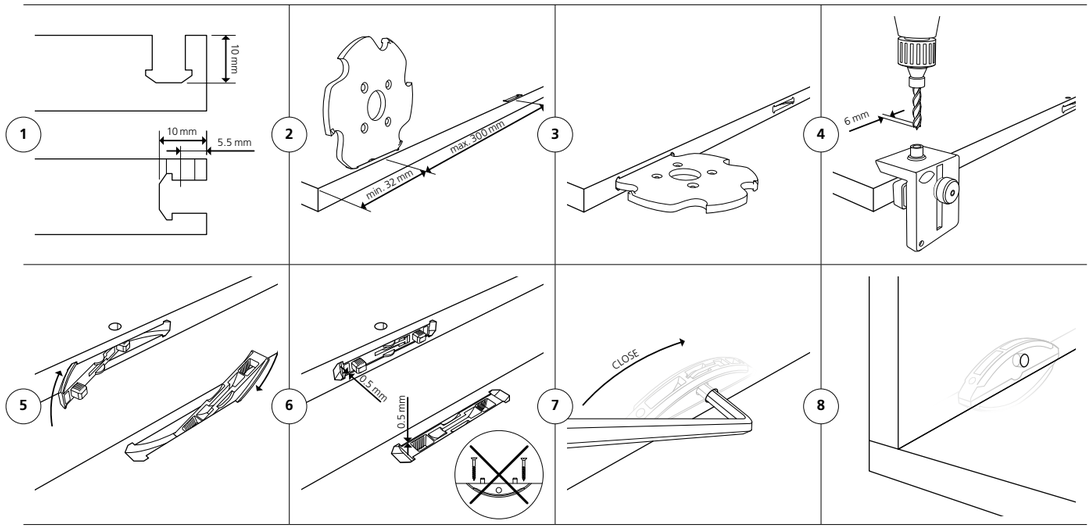
Articles



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

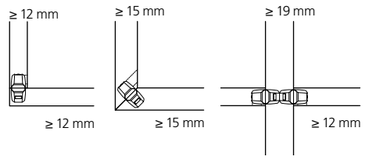
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Size	52 × 19 × 9.7 mm		
Cutter	Ø 100.4 × 7 × Ø 22 mm		
Material connector	Fiberglass reinforced plastic		
Material of lever	Zinc die cast		
Installation tolerance	Long. ± 0.5 mm/radial ± 0.5 mm		
Tensile strength (N) Up to	MDF 700[1]	Particle board 540[1]	Beech 900[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 66** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 70–71**

[1] See comment on load limits on **PAGE 189**

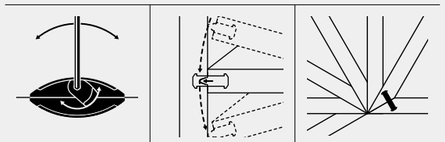
Clamex P-14/10 Flexus

Detachable furniture connector
with flexible positioning pins





Features



Detachable | **Versatile assembly** | **Versatile**

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

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

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

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



Articles

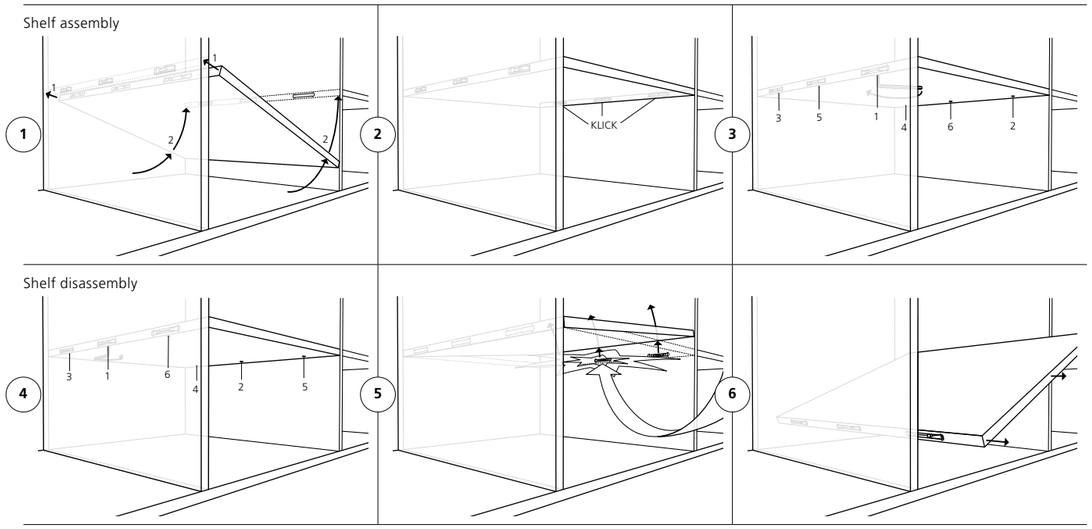


interzum Award

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

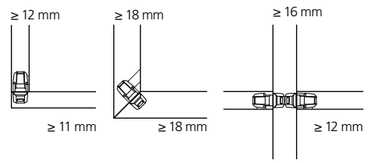
www.lamello.com
Experience the connector live and receive comprehensive product information!

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 790[1]	Particle board 710[1]	Beech 1190[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 67** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 70–71**

[1] See comment on load limits on **PAGE 189**

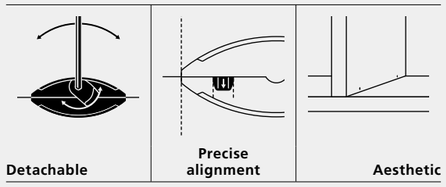
Clamex P-14 CNC

Detachable furniture connector with precise alignment





Features



Detachable | **Precise alignment** | **Aesthetic**

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

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

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



Articles



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



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



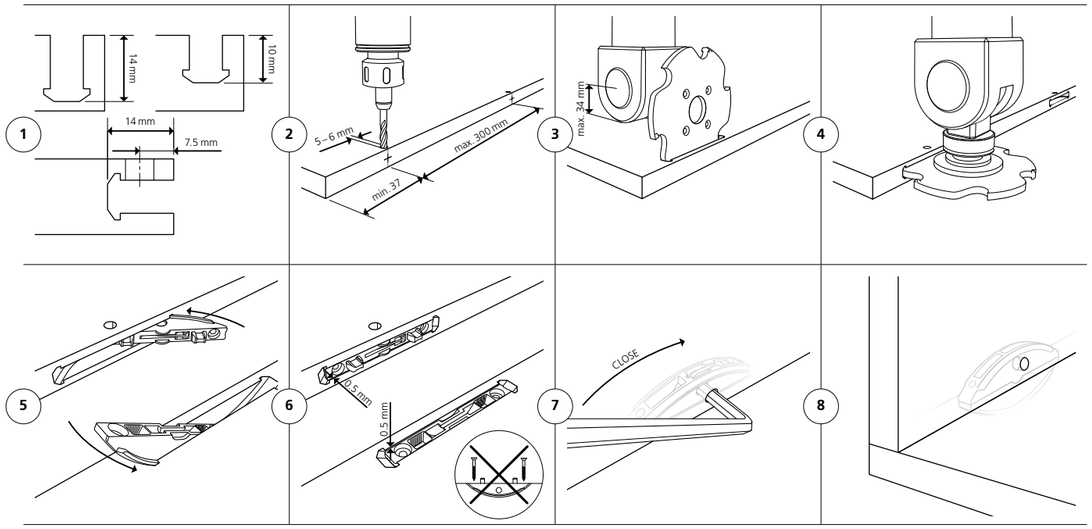
Clamex P-10	Art. No.
2000 pieces element without lever	**145358**



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

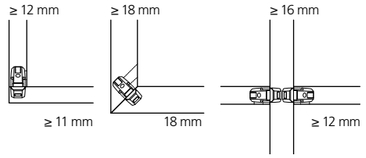
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

See **PAGE 67** for technical specifications | 90° and 45° cover caps are available in a variety of colours **PAGE 70–71**

[1] See comment on load limits on **PAGE 189**

Advantages of the Clamex P

Detachable furniture connector



1. Advantages in production

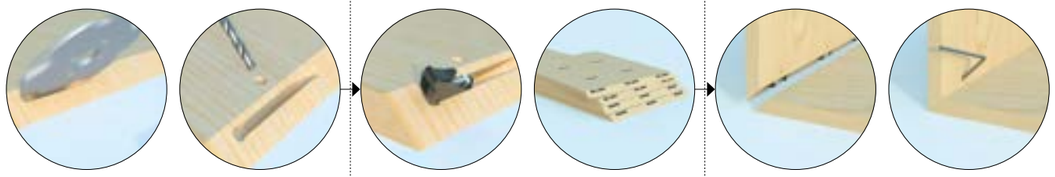
2. Advantages in transportation

3. Advantages in assembly

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

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

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



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

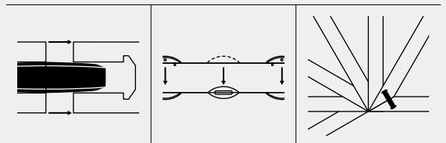


Bisco P

Aligning element, suitable for the P-System groove



Features



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

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



Articles



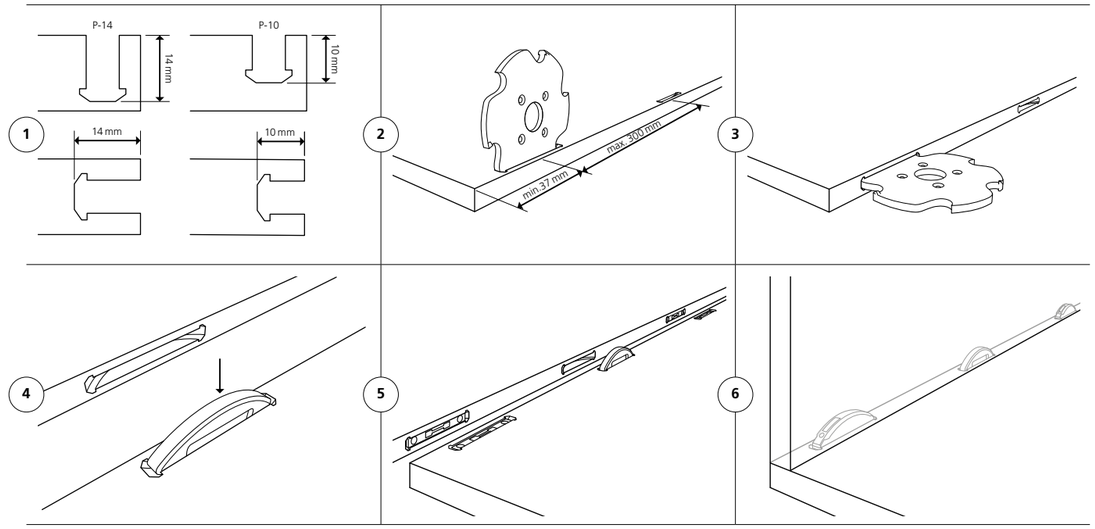
Bisco P-14	Art. No.
80 pieces	**145301**
300 pieces	**145302**
1000 pieces	**145303**



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

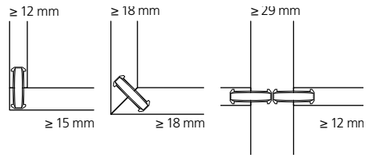
www.lamello.com
Experience the connector live and receive comprehensive product information!

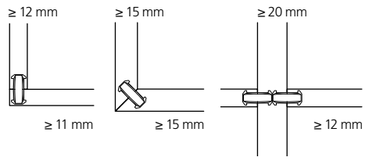
Function



Technical data

Joining methods





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

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

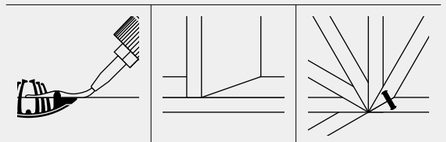
See **PAGE 68** for technical specifications

Tenso P-14

Self-clamping connector for glueing materials from 16 mm thickness



Features



Glueing | **Invisible** | **Versatile**

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



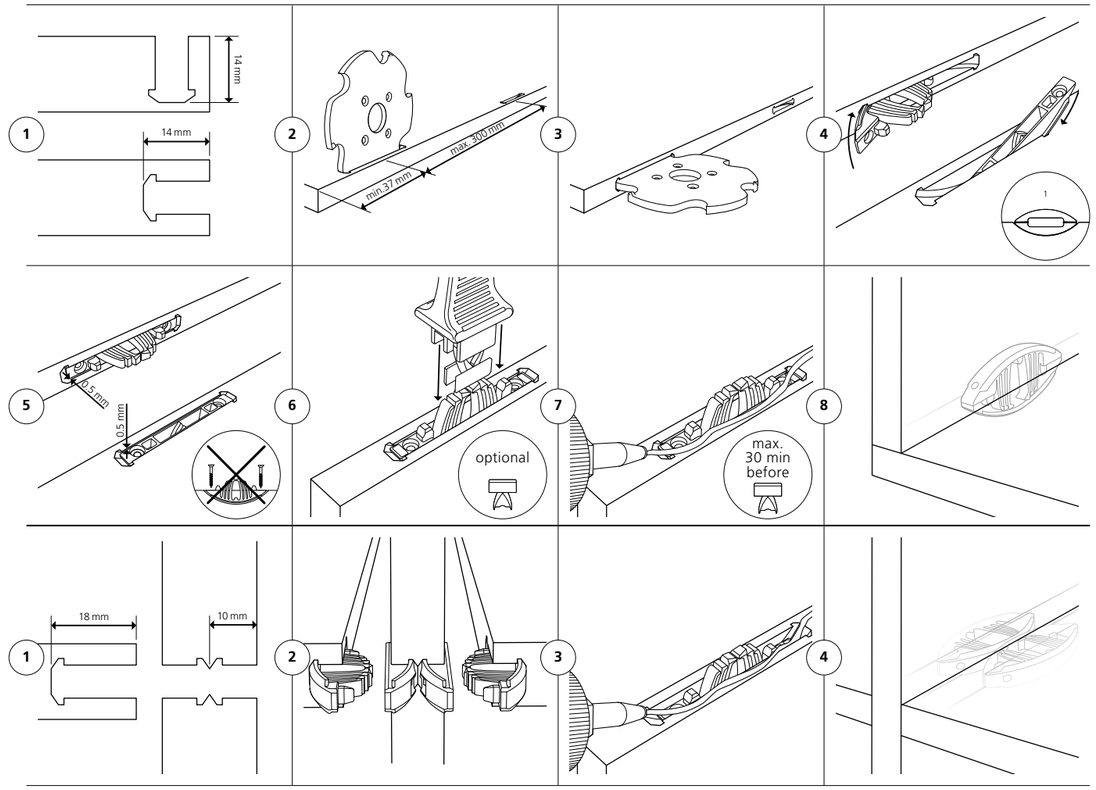
Tenso P-14	Art. No.
80 pairs	**145415**
80 pairs, with preload clip	**145415S**
300 pairs	**145425**
300 pairs, with preload clip	**145425S**
1000 pairs	**145435**
2000 pieces element with spring	**145440**
2000 pieces element without spring	**145441**



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

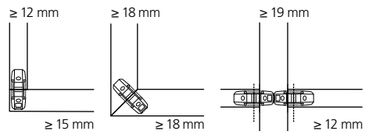
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

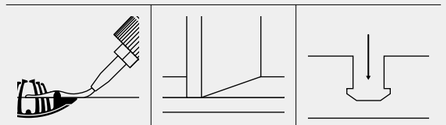
See **PAGE 69** for technical specifications | [1] Note: The aligning element Bisco P-14 is ideal to dry-assemble the joints before glueing.

Tenso P-10

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



Features



Glueing | **Invisible** | **Shallow cutting depth**

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

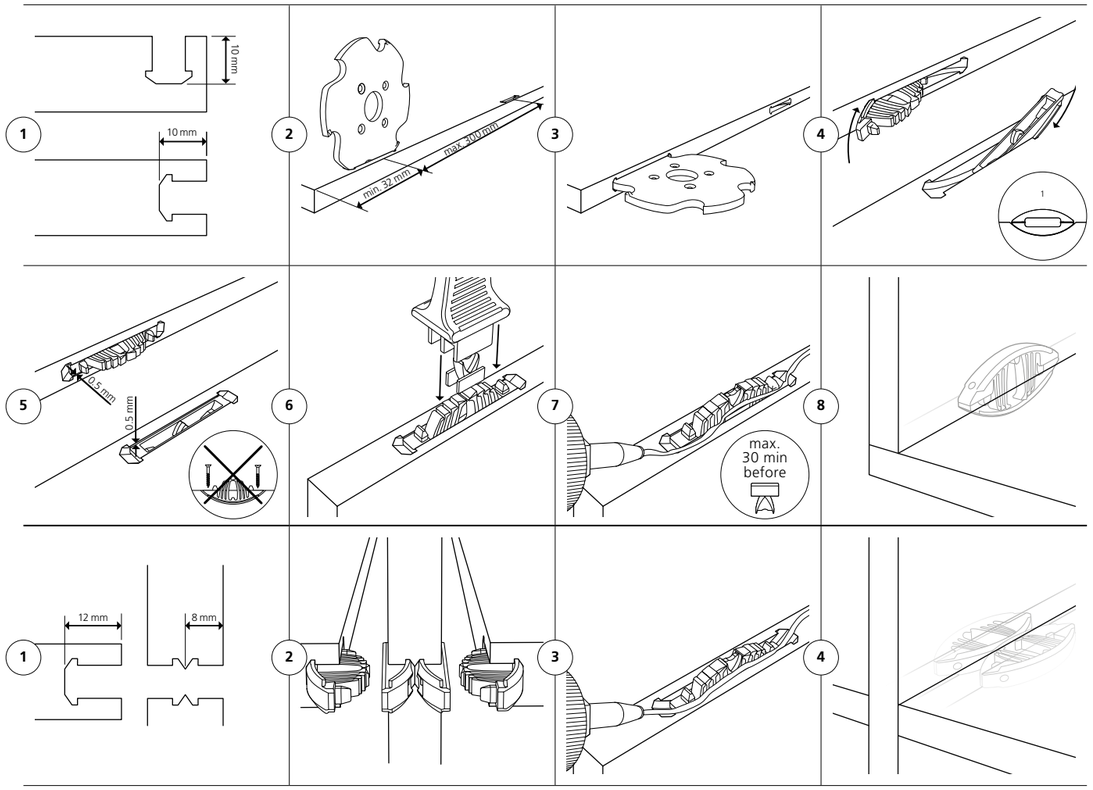
Tenso P-10	Art. No.
80 pairs, with preload clip	**145418**
300 pairs, with preload clip	**145428**
1000 pairs, with preload clip	**145438**
2000 pieces element with spring	**145442**
2000 Spieces element without spring	**145443**



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

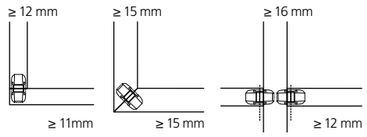
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

See **PAGE 69** for technical specifications | [1] Note: The aligning element Bisco P-10 is ideal to dry-assemble the joints before glueing.

Divario P-18

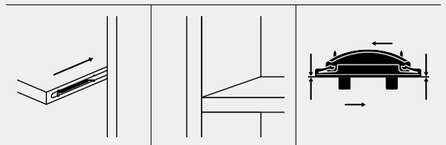
Self-clamping, invisible connector for slide insertion







Features



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

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

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

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



Articles



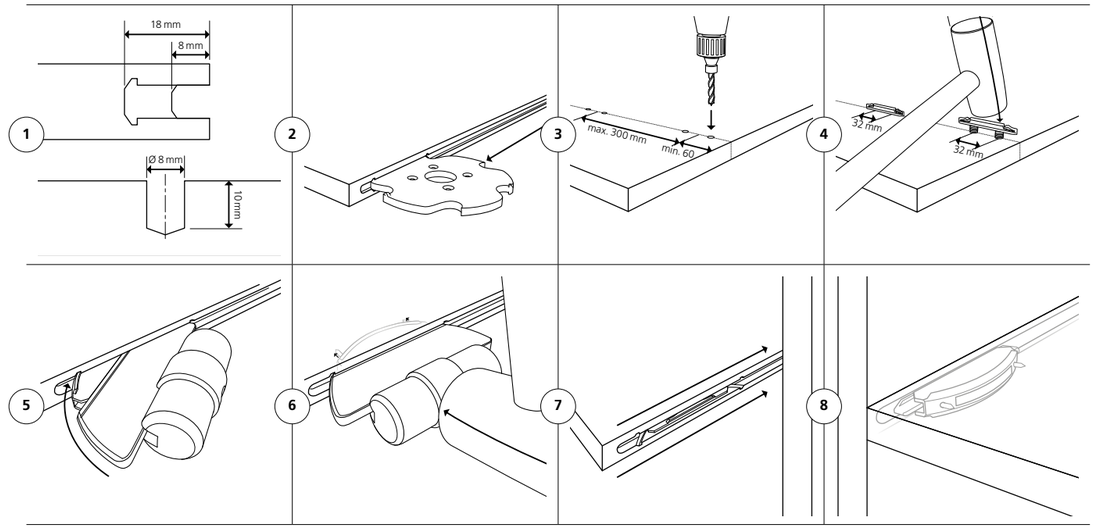
Divario P-18	Art. No.
80 pairs	**145550**
300 pairs	**145560**
1000 pairs	**145570**
2000 pieces, element for P-System groove	**145520**
2000 pieces, element for drill holes	**145540**



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

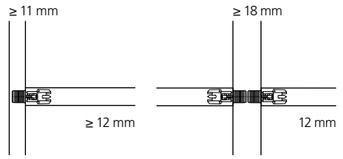
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Element with P-System groove	58 × 16 × 9.7 mm	
Element with drill holes	72 × 17 × 8 mm	
Cutter	Ø 100.4 × 7 × Ø 22 mm	
Material connector	Fiberglass reinforced plastic	
Installation tolerance	Long. ± 1 mm/radial ± 0 mm	
Load limits per connector (N) Up to	19 mm	
	MDF	740[1]
	Particle board	590[1]
	Beech	1820[1]
Tensile strength (N)	All materials	600[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.	

See **PAGE 69** for technical specifications | [1] See comment on load limits on **PAGE 189**

High performance without cable

LiHD battery pack



INTERFER

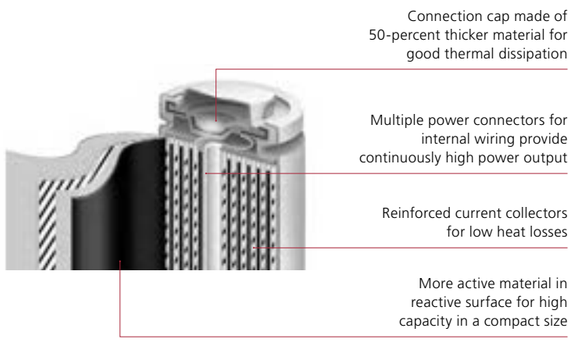
Ludwig Bauer, Teamleader Product Management

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

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

A unique interplay of:

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



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

18 V LiHD 4.0 Ah

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



18 V LiHD 5.5 Ah

- Available as an option for even longer working periods



More flexible in the workshop

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



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

Large workpieces



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

Exclusive individual pieces



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

Adapting furniture



Mobile working on the construction site

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

Fitted panels



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

Roof window casing



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

Terrace floors



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



Zeta P2 cordless

The powerful P-System biscuit joiner for cordless freedom

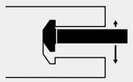




Features



Fast conection



Automatic vertical movement



Cordless freedom

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



Articles



Zeta P2 cordless biscuit joiner, DP (diamond)	Art. No.
In systainer, incl. 2 batteries and charger, plug type C Euro	**101801DESD**
In systainer, without batteries, without charger	**101800DESD**
In systainer, incl. 2 batteries and charger, plug type G	**101801GBSD**
In systainer, without batteries, without charger	**101800GBSD**

For other plug versions please contact your local Lamello specialist



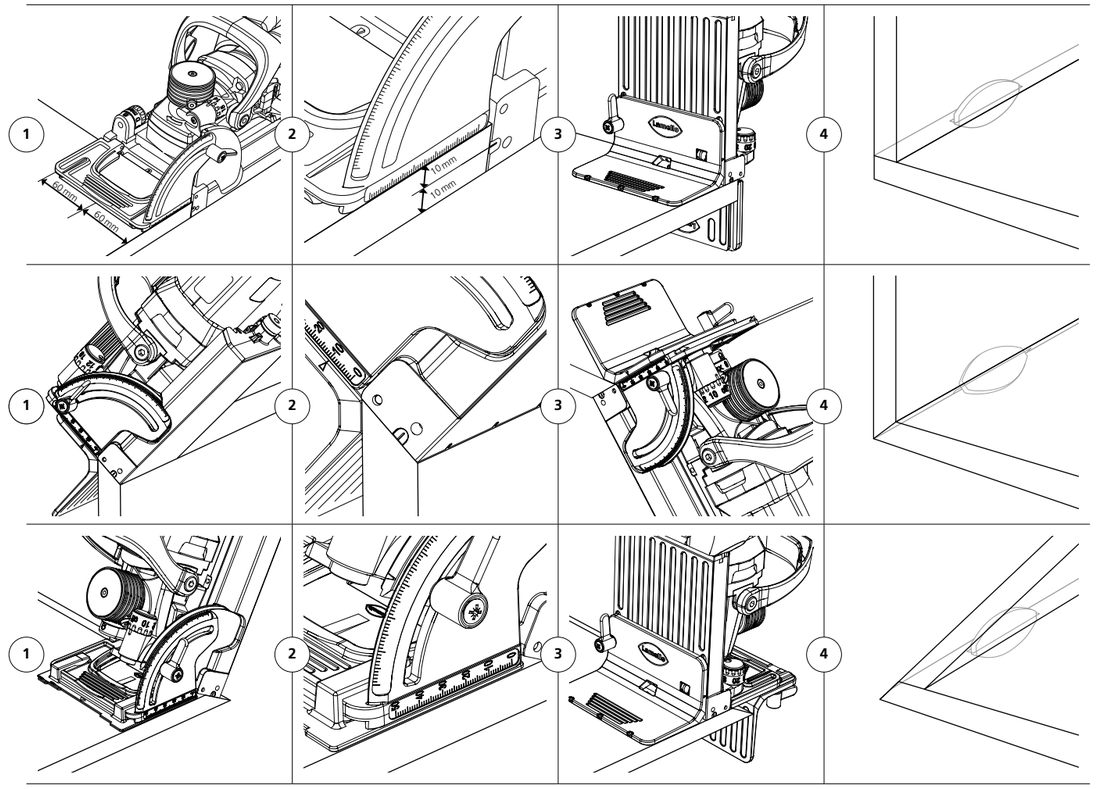
Kit contains

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

** Only included in art. No. 101801DESD/101801GBSD*

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Experience Zeta P2 cordless live and receive comprehensive product information!

Function



Technical data

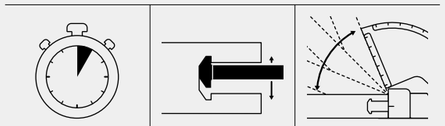
Battery voltage	18 V	Groove width	7/10 mm
Speed	9 000 min^{-1}	Groove depth max.	20 mm
P-System Cutter	Ø 100.4 × 7 × 22 mm	Weight	3.7 kg incl. battery

Zeta P2

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



Features



Fast conection	Automatic vertical movement	Numerous machining options

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



Articles



Zeta P2 with P-System

groove cutter HW (carbide)	Art. No.
In systainer³ M, plug type F Schuko	**101403DES**
In systainer³ M, plug type G	**101403GBS**
In systainer³ M, plug type C Euro	**101403CHS**

Zeta P2 with P-System

groove cutter DP (diamond)	Art. No.
In systainer³ M, plug type F Schuko	**101403DESD**
In systainer³ M, plug type G	**101403GBSD**
In systainer³ M, plug type C Euro	**101403CHSD**

For other plug versions please contact your local Lamello specialist

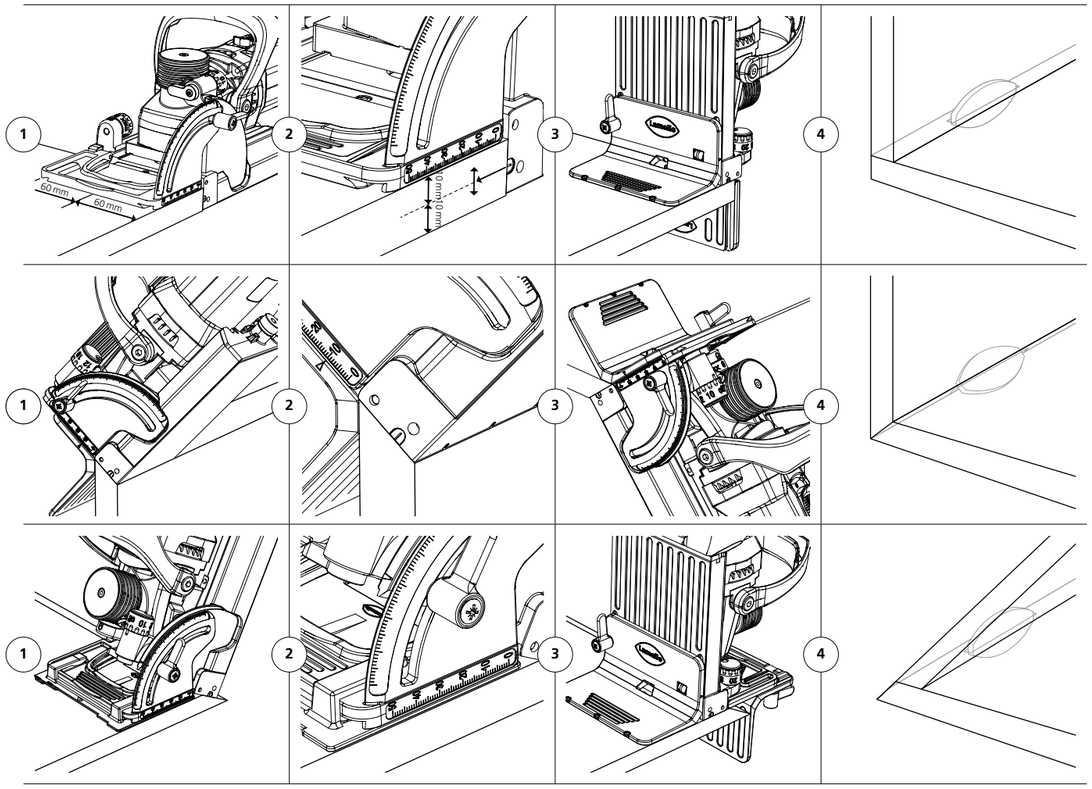


Kit contains

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

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Function



Technical data

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

Accessories

Zeta P2 cordless and Zeta P2

Accessories



Stop square for Zeta P2, Top 21, Classic X — Art. No.

For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints — **251044**



Spacer for Zeta P2, Top 21, Classic X — Art. No.

5 mm, aluminium for 18 mm panels	**253027**
2 mm, plastic for 16 mm panels	**253023**
4 mm, plastic for mitres	**253026**



P-System groove cutter DP (diamond),

Ø 100.4 × 7 × Ø 22 mm — Art. No.

Z3, 4 NL for Zeta P2 — **132140**

P-System groove cutter HW (carbide),

Ø 100.9 × 7 × Ø 22 mm — Art. No.

Z3, 4 NL for Zeta P2 — **132141**



Groove cutter HW (carbide),

Ø 100 × 4 × Ø 22 mm — Art. No.

Z2 + V4 scoring teeth, 4 screw holes, hub for Zeta P2/Top 21/Classic X — **132000**



Dust bag — Art. No.

For Zeta P2/Top 21/Classic X — **257532**

Batteries



Batteries — Art. No.

Battery pack 18 V, LiHD 4.0 Ah	**313013**
Battery pack 18 V, LiHD 5.5 Ah	**313015**
Battery charger ASC 55, plug type C Euro	**123100DE**
Battery charger ASC 55, plug typeG	**123100GB**

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

Connected in seconds ...

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

Advantage

... with Clamex P – detachable



1 Cut — 2 Drill — 3 Insert — 4 Connect – finished!

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

... with Tenso P – glued



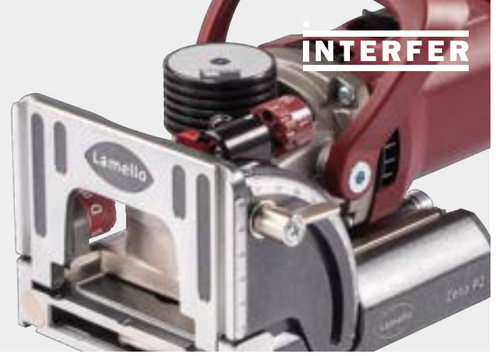
1 Cut — 2 Insert — 3 Apply glue — 4 Connect – finished!

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



Versatile use with many different connecting elements.

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



With P-System groove



Clamex P-14



Clamex P-14/10 Medius



Clamex P-10



Clamex P-14/10 Flexus



Bisco P-14



Bisco P-10



Tenso P-14



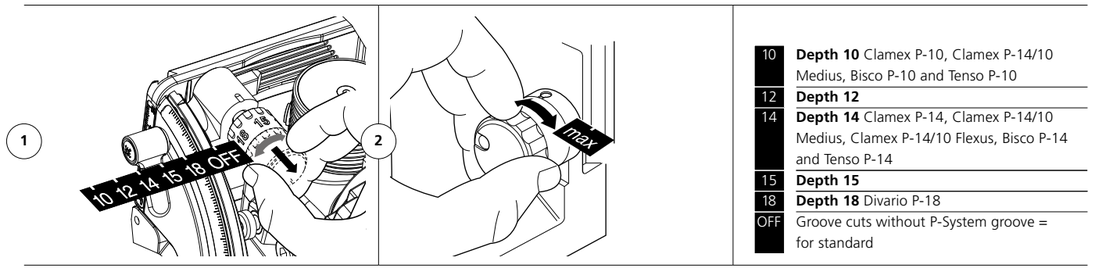
Tenso P-10



Divario P-18



With 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-14 and Tenso P-14
15	**Depth 15**
18	**Depth 18** Divario P-18
OFF	Groove cuts without P-System groove = for standard

With 4 mm Lamello System groove cutter



20



10



0



E20-H



E20-L



Clamex S-20



K20



C20



C10



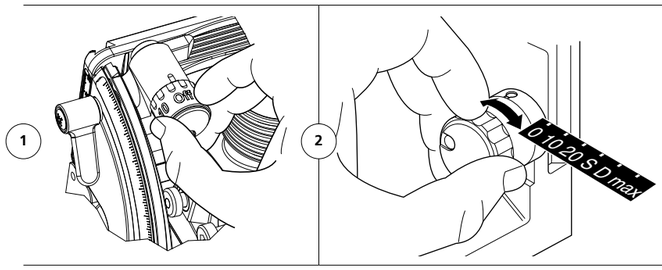
With 3 mm Lamello System groove cutter



H9



Lamello depth adjustment system

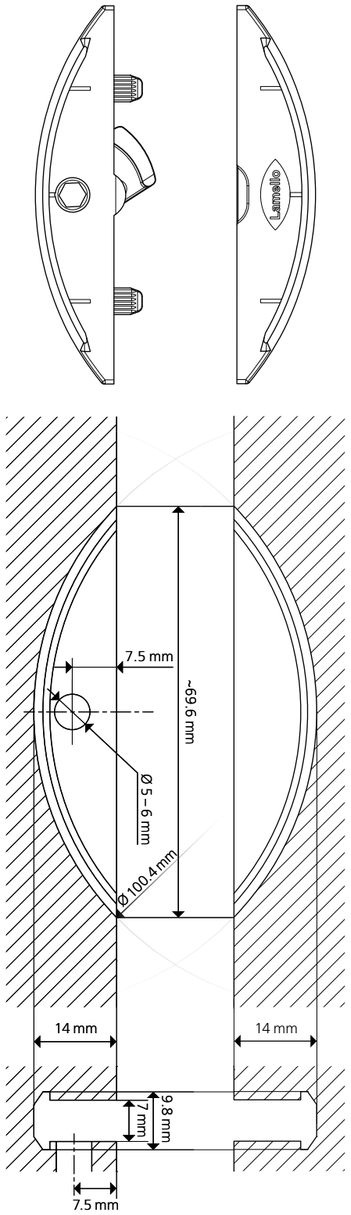


0	**Depth 0** no. 0
10	**Depth 10** no. 10, C10
20	**Depth 20** no. 20, E20-L, K20, C20, Clamex S-20
S	**Depth S** E20-H
D	**Depth D** Clamex S-18, E20-L
max	**Depth max** H9 (incl. spacer), E20-L

Technical information

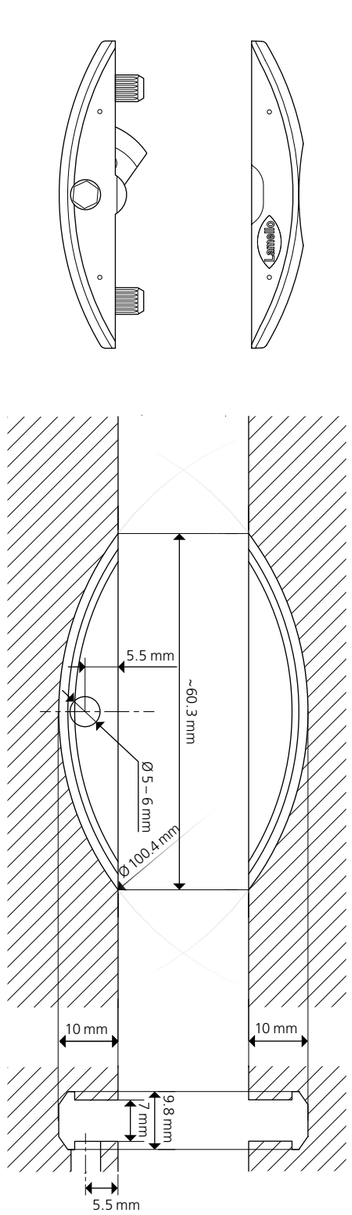
Overview of connectors + grooves (scale 1:1)

Clamex P-14



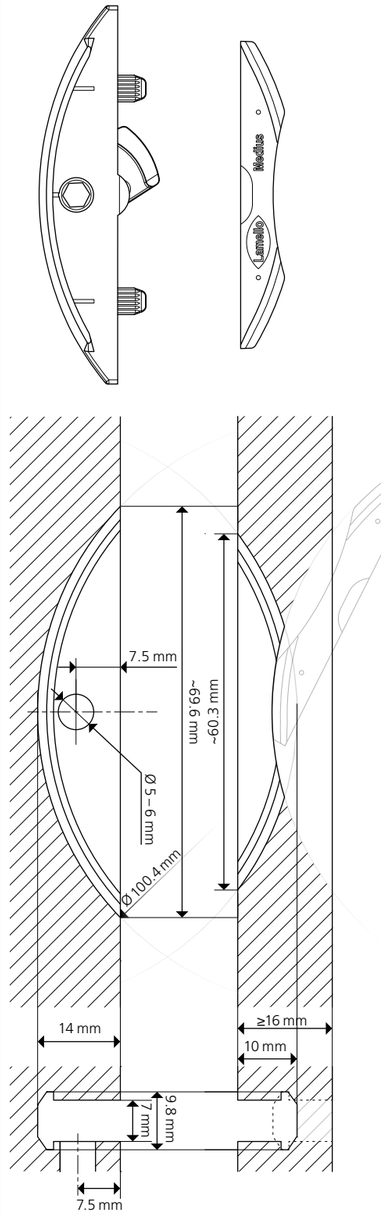
Tensile strength (N)	Up to
MDF	1210[1]
Particle board	1070[1]
Beech	1870[1]

Clamex P-10



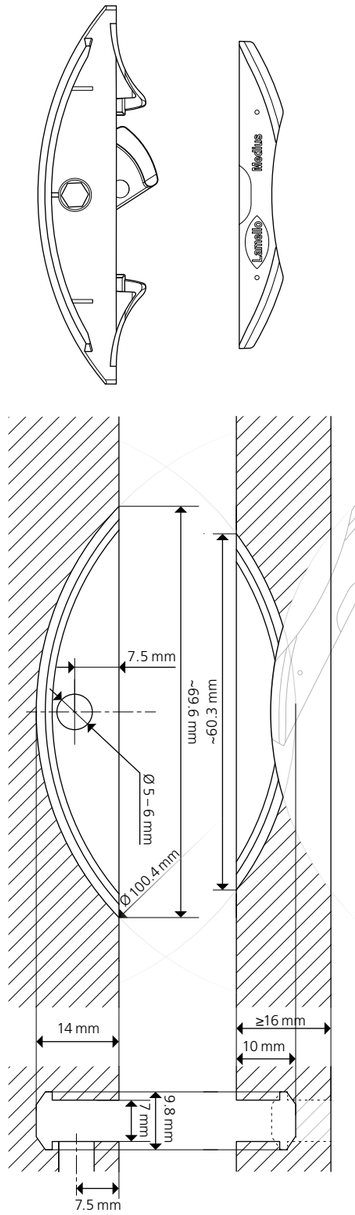
	Up to
MDF	700[1]
Particle board	540[1]
Beech	900[1]

Clamex P-14/10 Medius



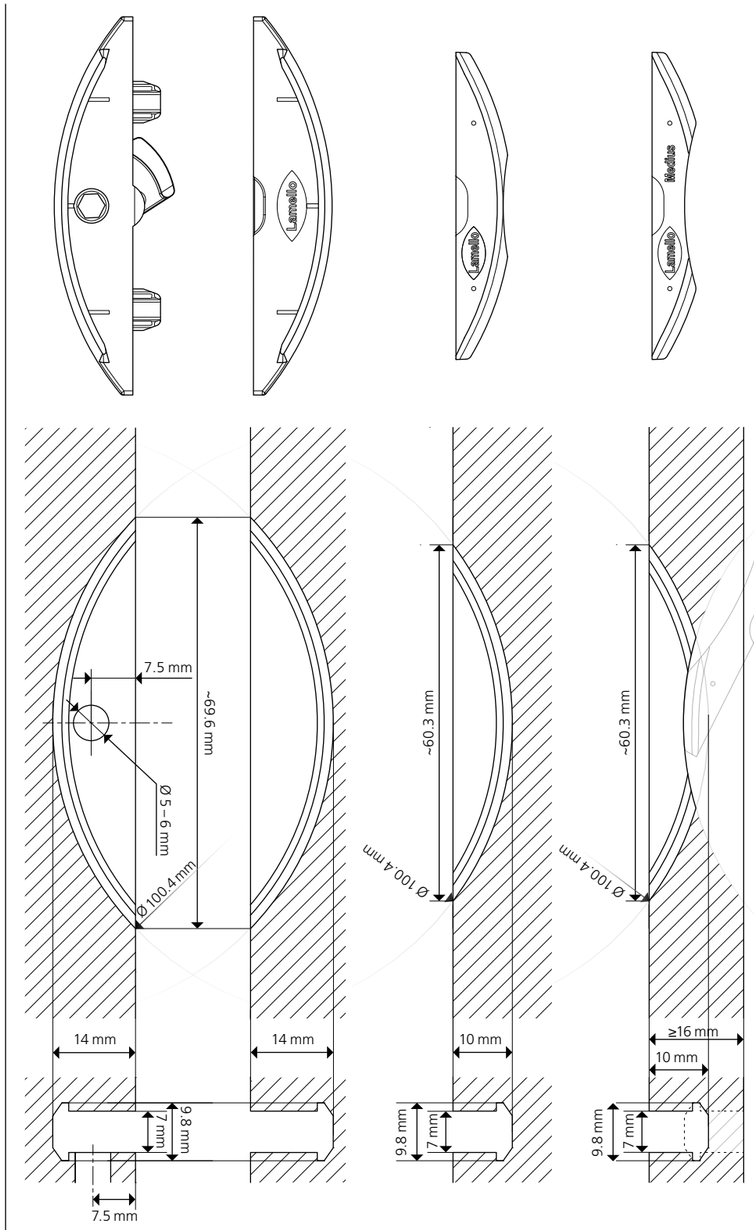
	Up to
MDF	810[1]
Particle board	620[1]
Beech	1100[1]

Clamex P-14/10 Flexus



Tensile strength (N)	Up to
MDF	790[1]
Particle board	710[1]
Beech	1190[1]

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



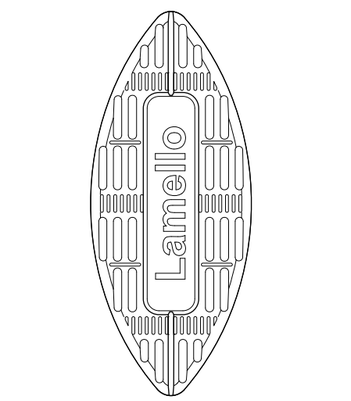
Tensile strength (N)	Up to	Up to	Up to
MDF	1210[1]	950[1]	810[1]
Particle board	1000[1]	880[1]	730[1]
Beech	1660[1]	1560[1]	1220[1]

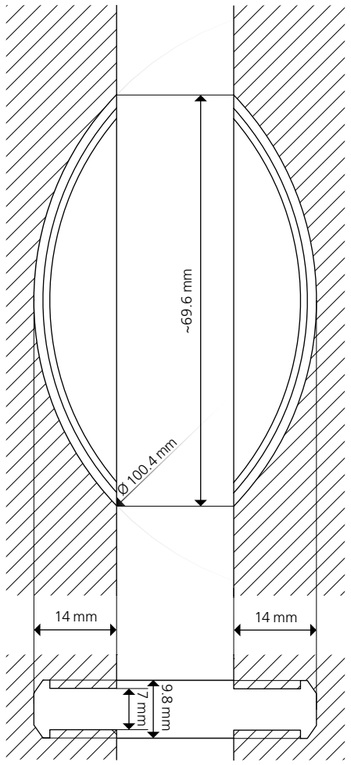
[1] See comment on load limits on **PAGE 189**

Technical information

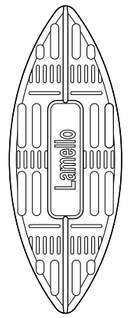
Overview of connectors + grooves (scale 1:1)

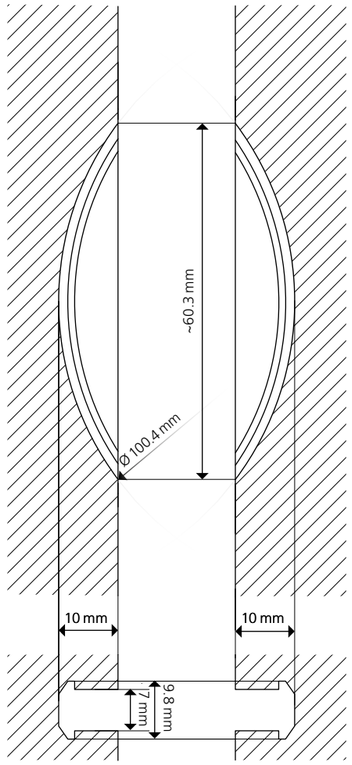
Bisco P-14



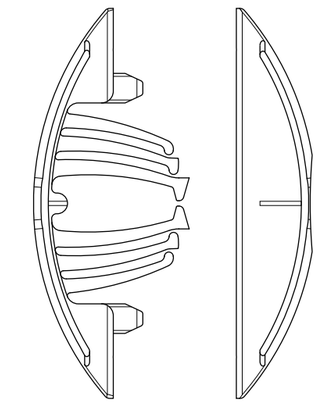


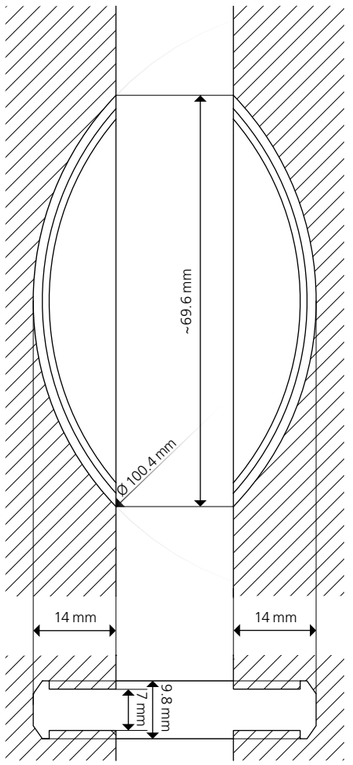
Bisco P-10



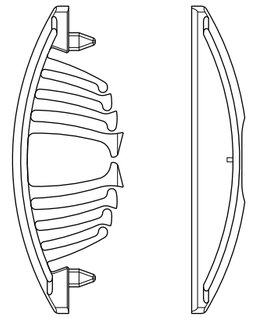


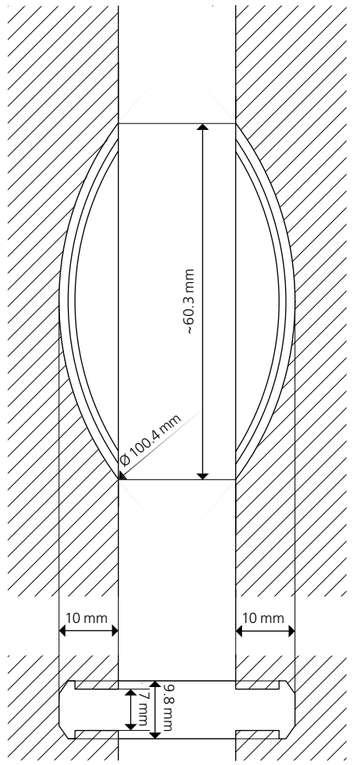
Tenso P-14



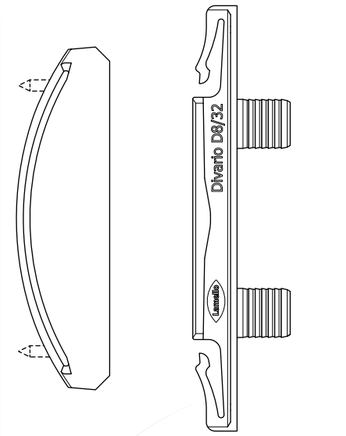


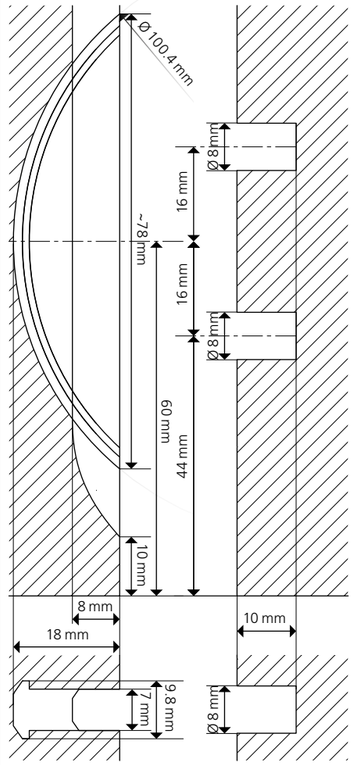
Tenso P-10





Divario P-18





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

Load limits per connector (N)*	
19 mm	
MDF	740[1]
Particle board	590[1]
Beech	1820[1]
Tensile strength (N)	
All materials	600[1]

[1] See comment on load limits on **PAGE 189** | * 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, 120 pairs Tenso P-14 incl. preload clip, 30 pairs Tenso P-10 incl. preload clip, 20 pieces Bisco P-14, 20 pieces Bisco P-10, 80 pairs Divario P-18, Divario installation tool/drill/ marking gauge, Clamex assembly tool, Tenso P-14/10 preload tool, Sortainer T-loc incl. dividers	**145323**



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

Clamex P



Clamex 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, 5000 pieces, 90°		Art. No.
RAL 9010 pure white	○	**335296**
RAL 9011 graphite black	●	**335291**
RAL 1014 ivory, pine	●	**335292**
RAL 1011 brown beige, beech	●	**335293**
RAL 8007 fawn brown	●	**335294**
RAL 8017 chocoloate brown	●	**335299**
RAL 9002 grey white	●	**335295**
RAL 7040 window grey	●	**335297**



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**

Cover cap, 5000 pieces, 45°		Art. No.
RAL 9010 pure white	○	**335390**
RAL 1014 ivory, pine	●	**335392**
RAL 1011 brown beige, beech	●	**335393**



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



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



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

Accessories / Spare Parts

P-System



Combination CNC and Zeta P2



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



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

Tenso P



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



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

Divario P



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



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



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



Divario P-18 Starter set	Art. No.
Divario P-18, 80 pairs, Divario installation tool, marking jig plastic	**145550S**



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

Zeta P2



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



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



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



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



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

Batteries



Batteries	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**
Battery pack 18 V, LiHD 5.5 Ah	**313015**
Battery charger ASC 55, plug type C Euro	**123100DE**
Battery charger ASC 55, plug typeG	**123100GB**

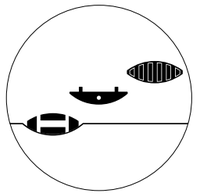
* For detailed information, see **PAGE 164/169**

Lamello System

The original for efficient, intuitive and precise joints

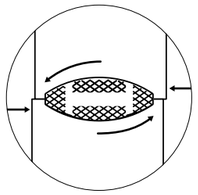
INTERFER

Features



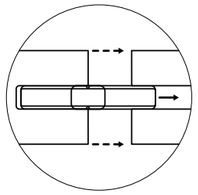
Versatile applications

One cutting principle for many different joining elements



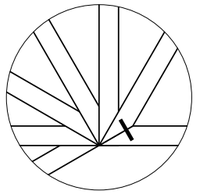
Lateral tolerance

The generous sliding tolerance allows for perfect flush alignment of workpieces



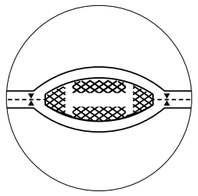
Perfect fit

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

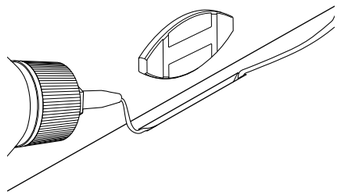
The identical groove in both workpieces leads to an increase in efficiency in production

Lamello System

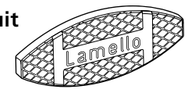
Overview

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

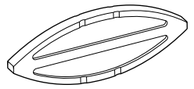
Glueing



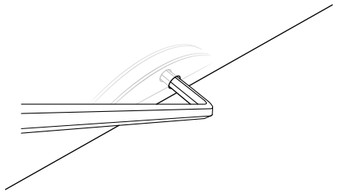
Original wood biscuit



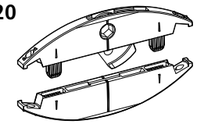
C20



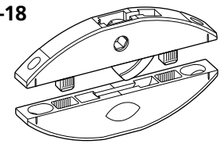
Detachable



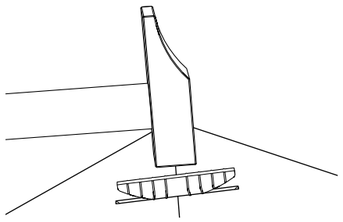
Clamex S-20



Clamex S-18



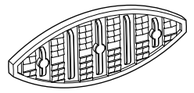
Inserted

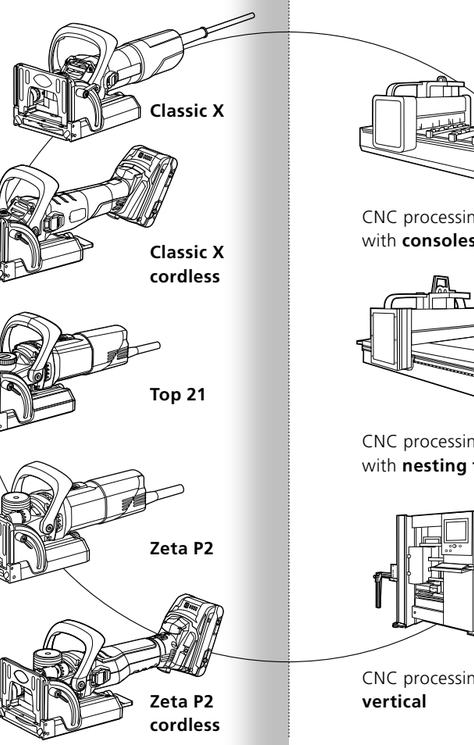


E20



K20





Classic X

Classic X cordless

Top 21

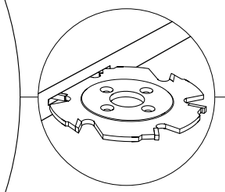
Zeta P2

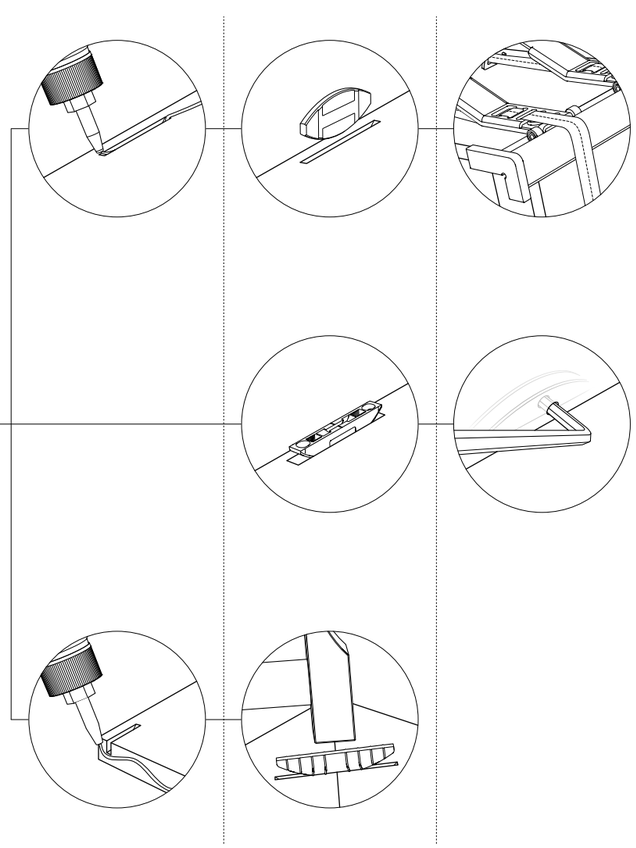
Zeta P2 cordless

CNC processing centres with **consoles**

CNC processing centres with **nesting technology**

CNC processing centres **vertical**







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

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

Lamello System

Applications

Furniture manufacturing







Interior fitting







Lamello System

Applications

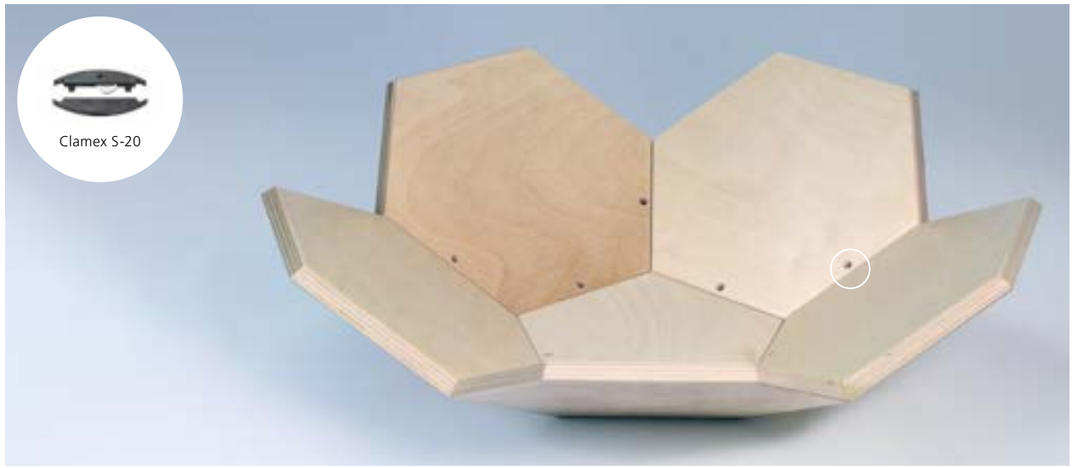
Kitchen manufacturing







Commercial joinery







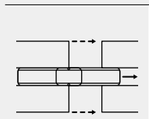
Shop fitting

Original wood biscuit

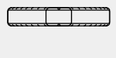
The original wood biscuit that always fits



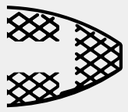
Features



Perfect fit



Round edges



Embossed glue surface

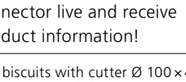
The original wood biscuit is the proven solution for wood joints and the original from the inventor of the system. The original wood biscuit guarantees quality with its dimensional accuracy, optimal glue distribution, dimensional stability as well as the sustainable cultivation of the beech wood. The 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**



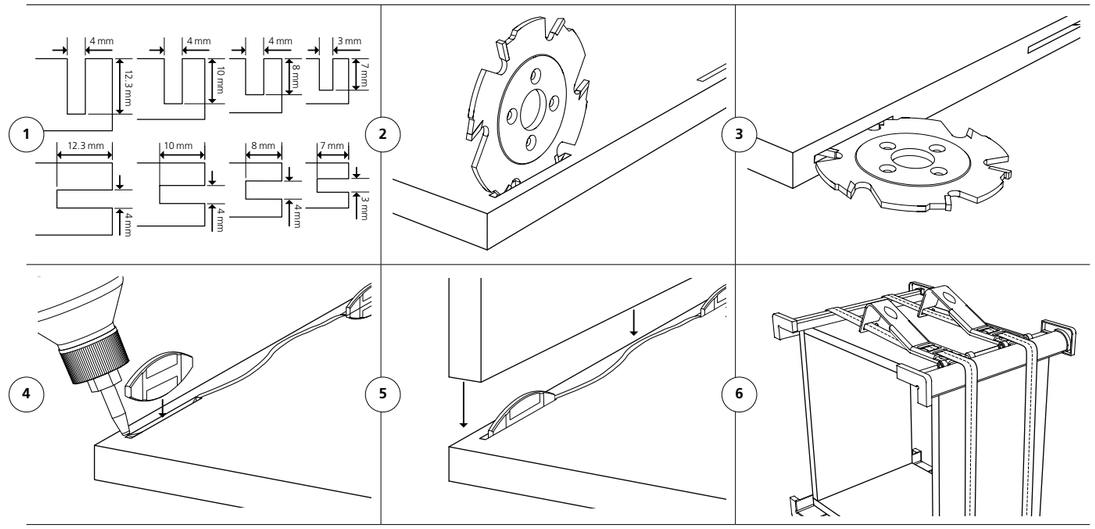
Original wood biscuit H9*	Art. No.
1000 pieces	**144009**

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

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Experience the connector live and receive comprehensive product information!

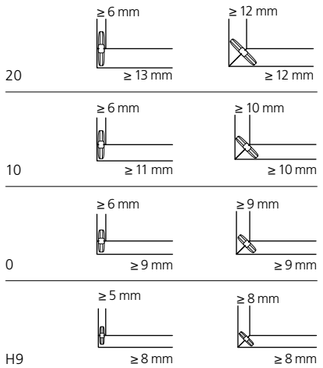
* Installation of wood biscuits with cutter Ø 100 × 4 × Ø 22 mm (standard cutter). Installation of H9 wood biscuits with cutter Ø 78 × 3 × Ø 22 mm (Art. No. 132009)

Function



Technical data

Joining methods



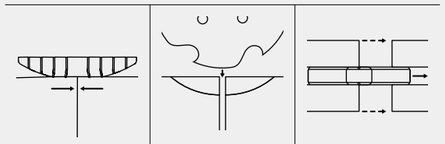
Size 20	56 × 23 × 4 mm
Size 10	53 × 19 × 4 mm
Size 0	47 × 15 × 4 mm
Cutter	Ø 100 × 4 × Ø 22 mm
Size H9	38 × 12 × 3 mm
Cutter	Ø 78 × 3 × Ø 22 mm
Material connector	Beech
Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
Clamping force (N)	Depending on the adhesive
Material range	Particle board, MDF,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

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

E20

The self-clamping element

Features



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

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



Articles



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



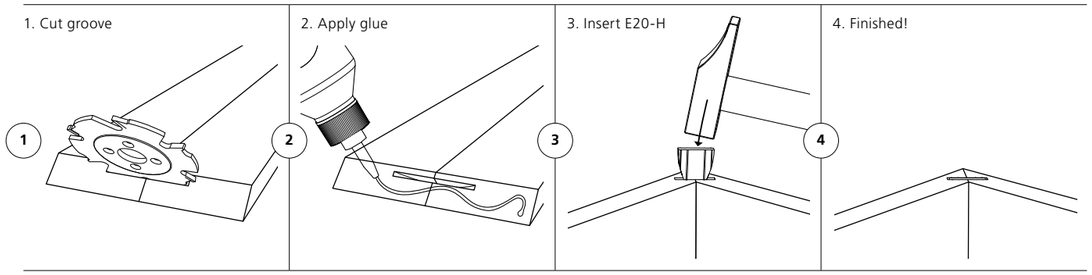
E20-L	Art. No.
80 pieces	**145022**
400 pieces	**145025**
1200 pieces	**145027**

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

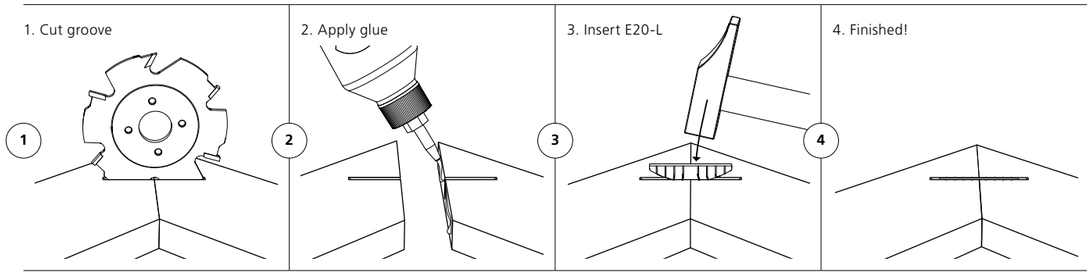
www.lamello.com
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Function

E20-H

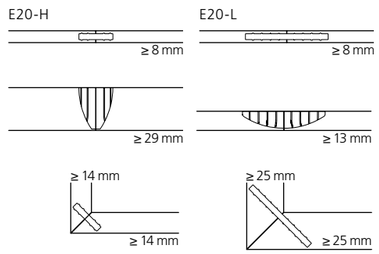


E20-L



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.

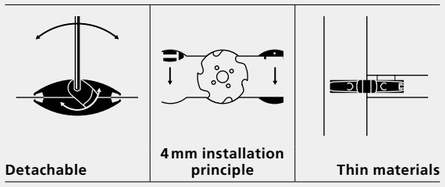
See **PAGE 113** for technical specifications

Clamex S-20

Detachable furniture connector for the 4 mm groove



Features



Detachable | **4 mm installation principle** | **Thin materials**

Clamex S-20 is a detachable connector for the Lamello system for material thicknesses from 16 mm and is fastened in the groove with screws.

The symmetric 4 mm grooves can be created with any biscuit joiner.
Clamex S-20 is connected to the counterpart with a lever and has a lateral installation tolerance.

It requires no adhesive, enables aesthetic connections at all angles and is ideal for fixed or detachable connections.



Articles



Clamex S-20	Art. No.
20 pairs, incl. screws	**145243**
80 pairs, incl. screws	**145244**
300 pairs	**145245**
1000 pairs	**145246**



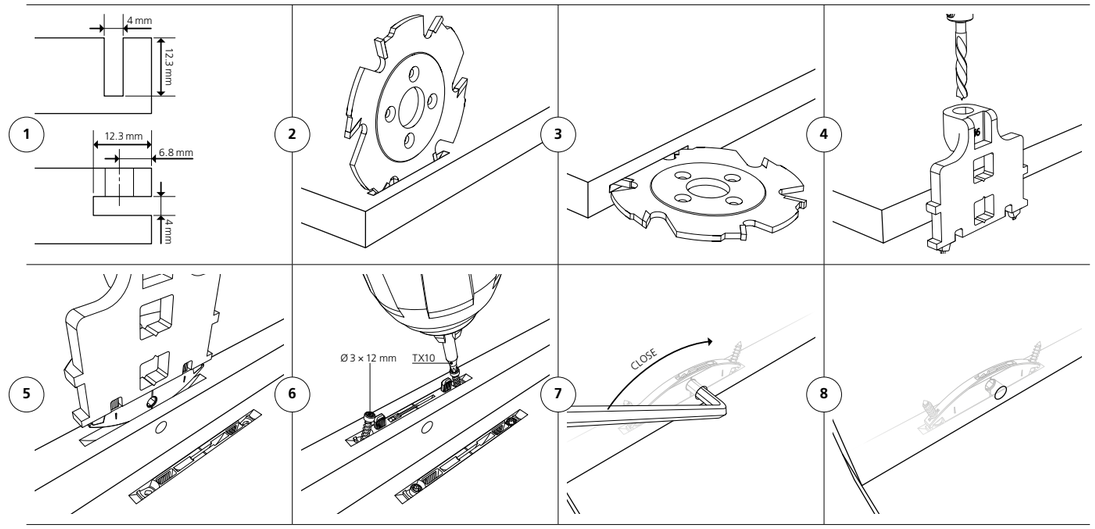
Clamex S-20 screw	Art. No.
1500 pieces, Ø 3 × 12 mm	**125255**



Clamex S-20 Starter set	Art. No.
In Systainer³ M137, scope of delivery: Clamex S-20, 80 pairs incl. screws, Clamex S-20 drill jig inlc. drill Ø 6 mm, Clamex assembly tool	**145247**

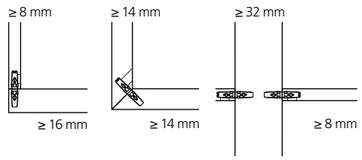
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

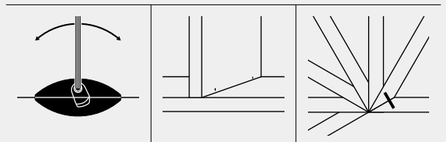
See **PAGE 112** for technical specifications | [1] See comment on load limits on **PAGE 189**

Clamex S-18

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



Features



Detachable | **Aesthetic** | **Versatile**

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

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

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



Articles

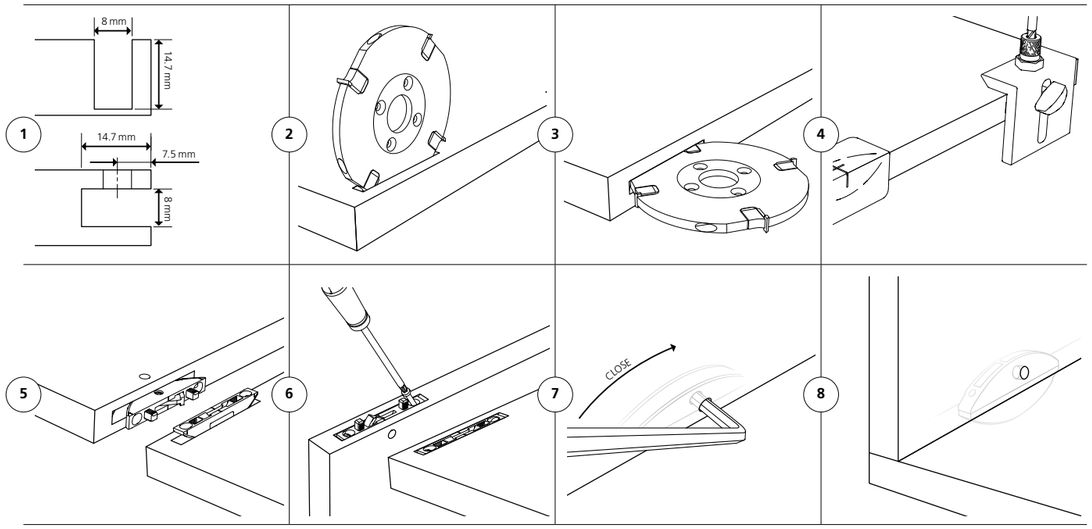


Clamex S-18	Art. No.
18 pairs, incl. screws 3 × 16 mm	**145231**
80 pairs	**145236**
300 pairs	**145241**
1000 pairs	**145251**

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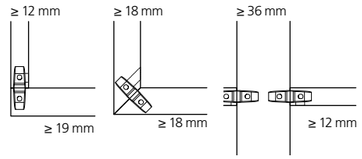
* Double cut with 4 mm cutter and spacer
Single cut with 8 mm cutter Art. No. 132108

Function



Technical data

Joining methods



Size	66 × 29 × 8 mm		
Cutter	Ø 100 × 8 × Ø 22 mm		
Material connector	Fiberglass reinforced plastic		
Material of lever	Zinc die cast		
Screw	3 × 16 mm		
Installation tolerance	Long. ± 1.0 mm		
Clamping force (N) Up to	MDF 790[1]	Particle board 550[1]	Beech 1420[1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

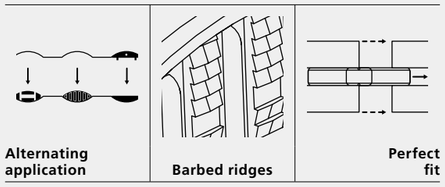
See **PAGE 112** for technical specifications | [1] See comment on load limits on **PAGE 189**

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.



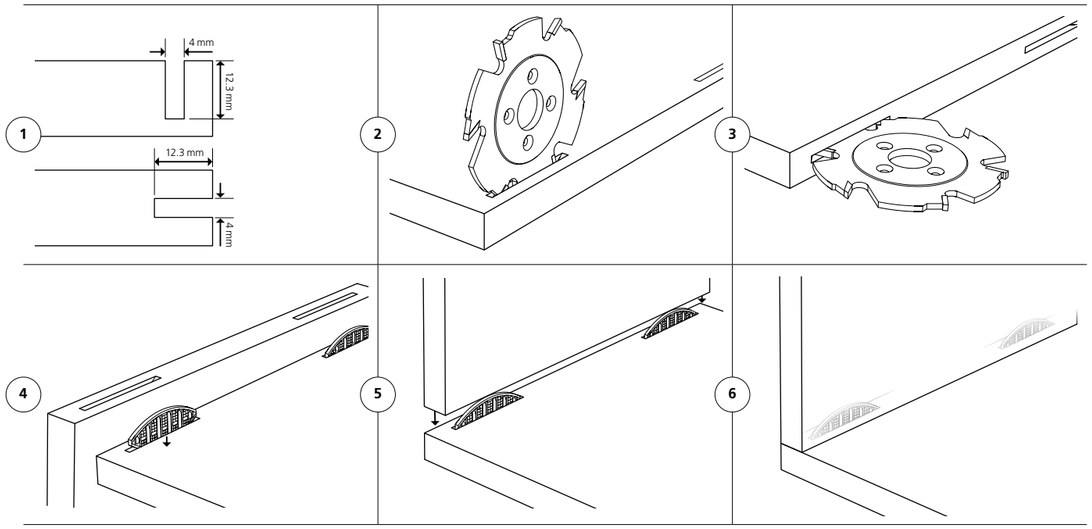
Articles



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

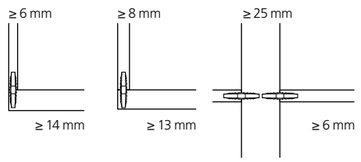
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

See **PAGE 113** for technical specifications

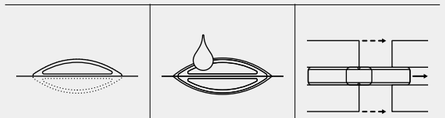
C20/C10

The transparent element





Features



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

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

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



Articles

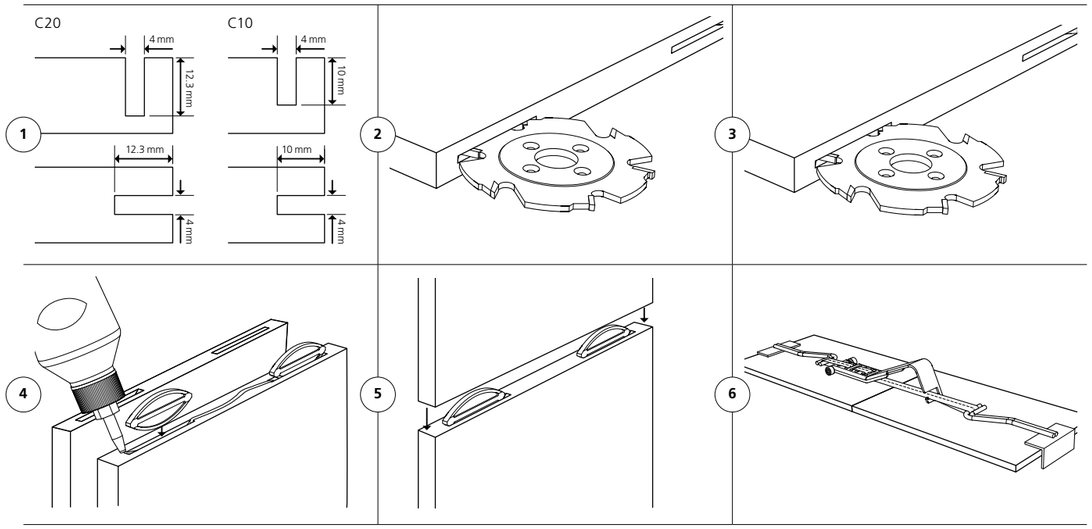


C20	Art. No.
250 pieces	**145010**

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

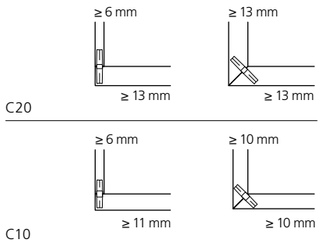
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Size C20	61 × 23 × 4 mm
Size C10	53 × 19 × 4 mm
Cutter	Ø 100 × 4 × Ø 22 mm
Material connector	Plastic
Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
Clamping force (N)	Depending on the adhesive
Material range	Mineral material panels (e.g. Corian)

See **PAGE 111** for technical specifications

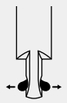
Minicol

The all purpose glue applicator





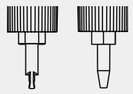
Features



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**



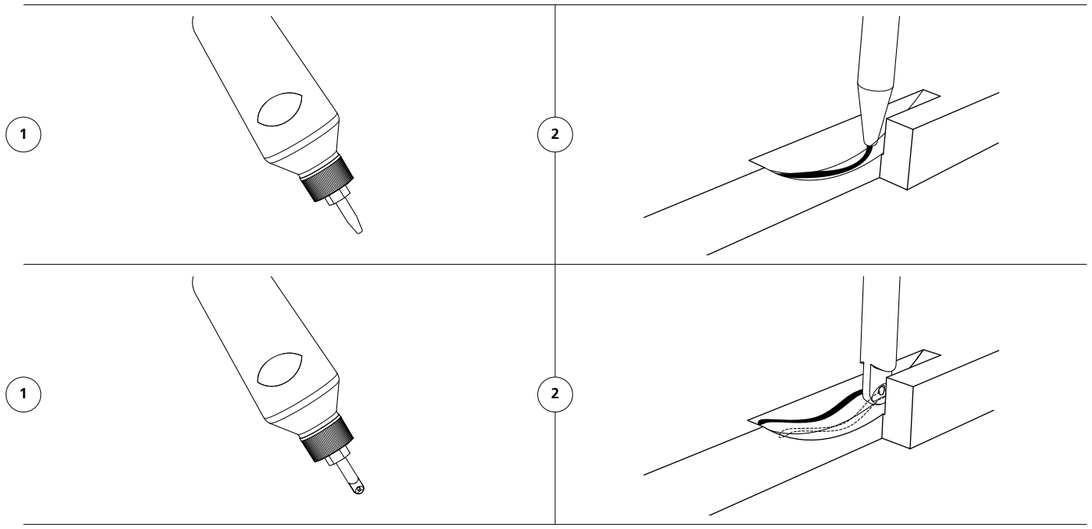
Minicol pointed nozzle	Art. No.
Plastic nozzle	**335522**



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

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Function



Technical data

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

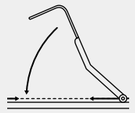
Clamping set

Clamping system for cabinets

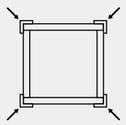




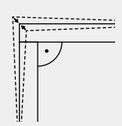
Features



Easy clamping



Even pressure distribution



Correct angle

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

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

Articles



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



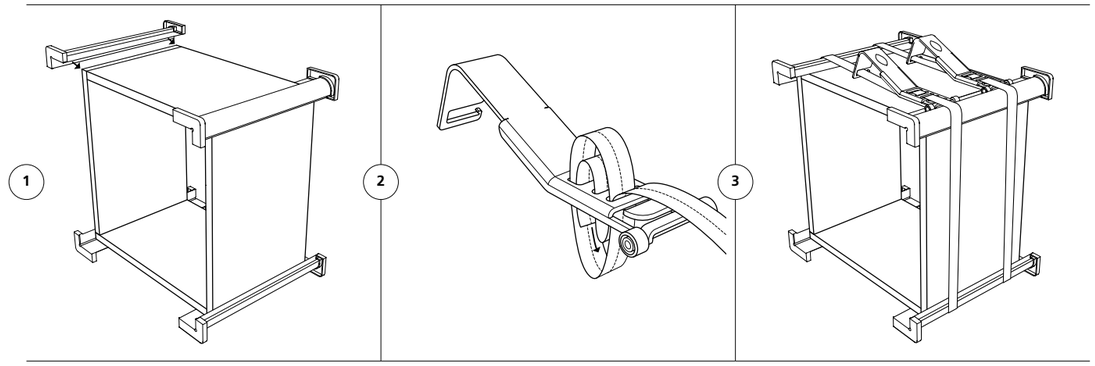
Tension hooks	Art. No.
2 pieces	**175200**



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

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Experience the clamping set live and receive comprehensive product information!

Function



Technical data

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

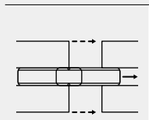
Classic X cordless

The original biscuit joiner – precise and cordless

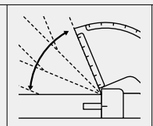




Features



Highest precision



Versatile attachment option



Cordless freedom

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



Articles



Classic X cordless biscuit joiner	Art. No.
In systainer, incl. 2 batteries and charger, plug type C Euro	**101701DES**
In systainer, without batteries, without charger	**101700DES**
In carton, without batteries, without charger	**101700DEK**
In systainer, incl. 2 batteries and charger, plug type G	**101701GBS**
In systainer, without batteries, without charger	**101700GBS**
In carton, without batteries, without charger	**101700GBK**

For other plug versions please contact your local Lamello specialist



Kit contains

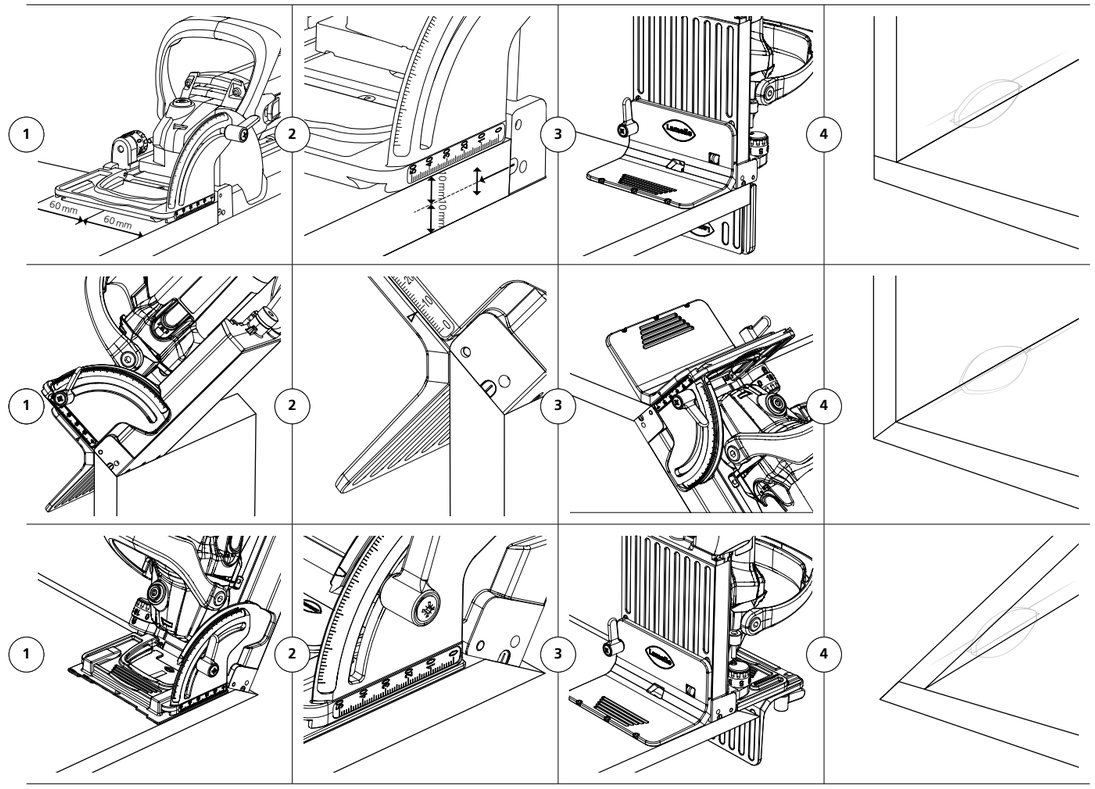
Classic X cordless biscuit joiner, 2 × battery pack 18 V, LiHD 4.0 Ah*, battery charger ASC 55*, suction stub 36 mm, stop square, spacer 4 mm, dust bag, tool set

** Only included in art. No. 101701DES/101701GBS*

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

Function



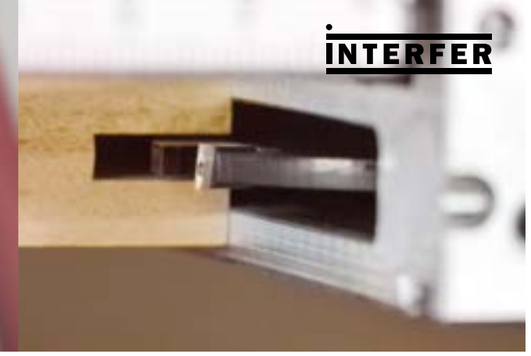
Technical data

Battery voltage	18 V	Groove width	4 mm
Speed	6 000 min^{-1}	Groove depth max.	20 mm
Cutter	Ø 100 × 4 × 22 mm	Weight	3.1 kg incl. battery

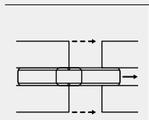
Classic X

The original biscuit joiner for every workshop

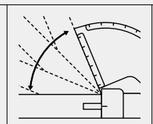




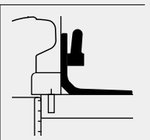
Features



Highest precision



Versatile attachment option



Stabilising stop square

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 systainer³ M, plug type F Schuko	**101602DES**
In carton, plug type F Schuko	**101602DEK**
In systainer³ M, plug type G	**101602GBS**
In carton, plug type G	**101602GBK**
In systainer³ M, plug type C	**101602CHS**
In carton, plug type C Euro	**101602CHK**

For other plug versions please contact your local Lamello specialist

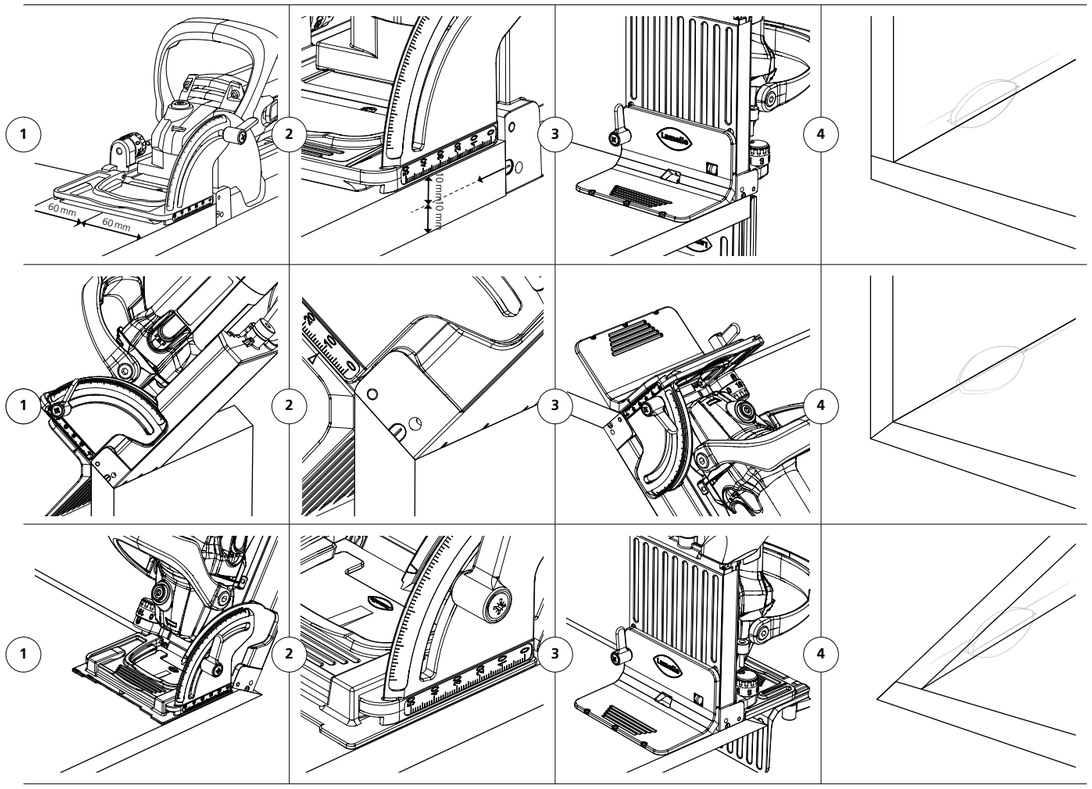


Kit contains

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

www.lamello.com
Experience Classic X live and receive comprehensive product information!

Function



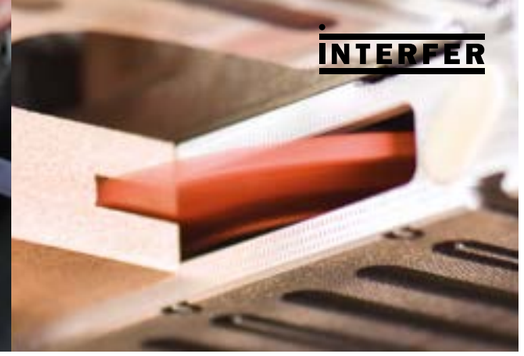
Technical data

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

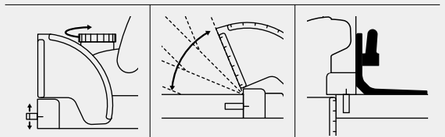
Top 21

The original biscuit joiner
with height adjustable blade
from the inventor





Features



Height adjustable cutter

Versatile attachment option

Stabilising stop square

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 with groove cutter HW (carbide)	Art. No.
In systainer³ M, plug type F Schuko	**101501DES**
In systainer³ M, plug type G	**101501GBS**
In systainer³ M, plug type C Euro	**101501CHS**

Top 21 with carbide reversing blade cutter	Art. No.
In systainer³ M, plug type F Schuko	**101501DESW**

For other plug versions please contact your local Lamello specialist

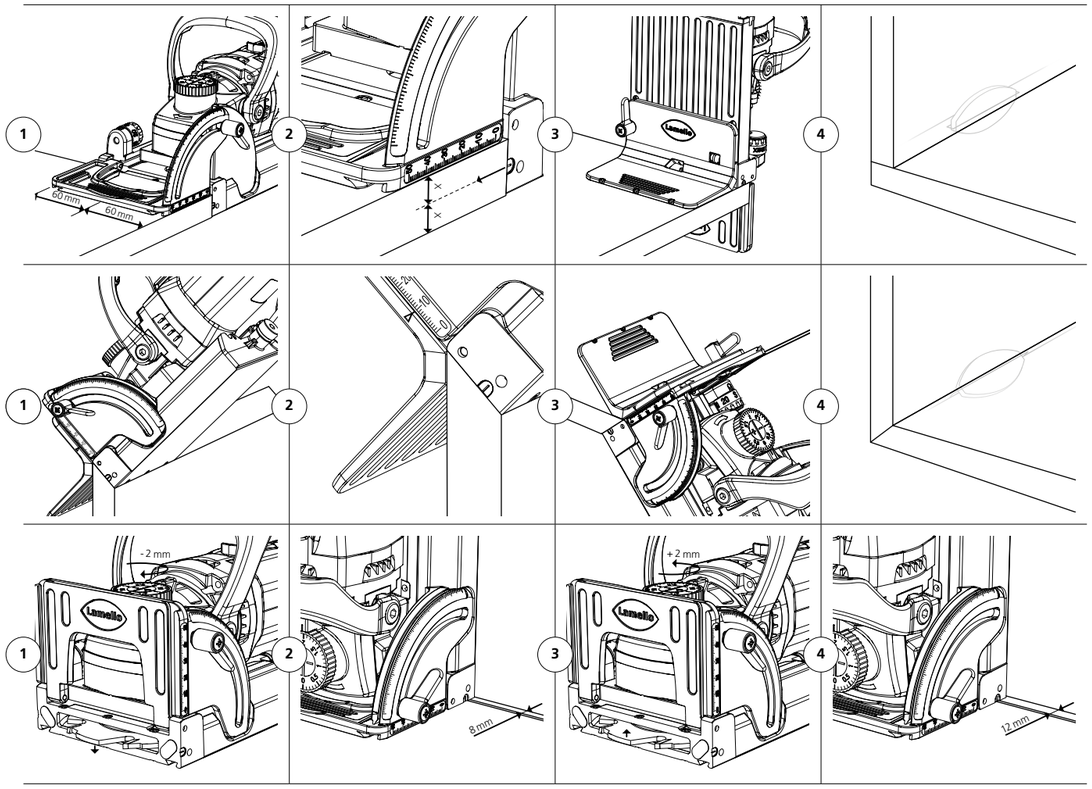


Kit contains

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

www.lamello.com
Experience Top 21 live and receive comprehensive product information!

Function



Technical data

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

Accessories

Classic X cordless, 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**



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**



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



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**



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



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 Zeta P2/Top 21/Classic X	**257532**



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



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

Batteries



Batteries	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**
Battery pack 18 V, LiHD 5.5 Ah	**313015**
Battery charger ASC 55, plug type C Euro	**123100DE**
Battery charger ASC 55, plug typeG	**123100GB**

Please find the complete accessories range starting **PAGE 182**

Original Lamello biscuit joiners

These properties make the difference

Features

Multifunctional stop square included in the kit

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



Vertical stability by attaching to the baseplate to increase the surface



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



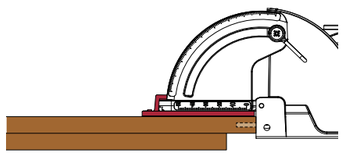
Variable positioning of the groove from the application surface 0 – 50 mm

Swivelling front with fixed rotational point

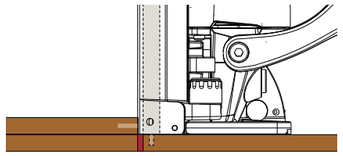
Exactly the same referencing distances from either the swivelling front or the base plate = 8 mm
Allows alternating the application surface from the swivelling front **1.** to the baseplate **2.** Especially important when cutting thin dividing panel connections



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



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



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

High-precision machined application surfaces



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



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

Versatile use ...

… with various connecting elements.

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

With 4 mm Lamello System groove cutter



20



E20-H



K20



10



E20-L



C20



0



Clamex S-20



C10

With 8 mm Lamello System groove cutter



Clamex S-18



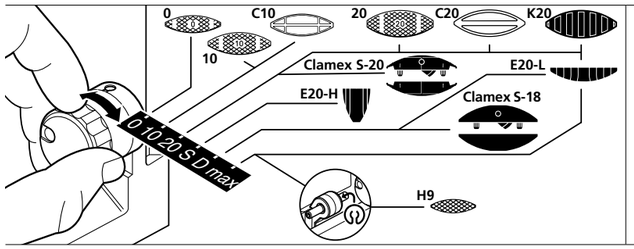
With 3 mm Lamello System groove cutter



H9



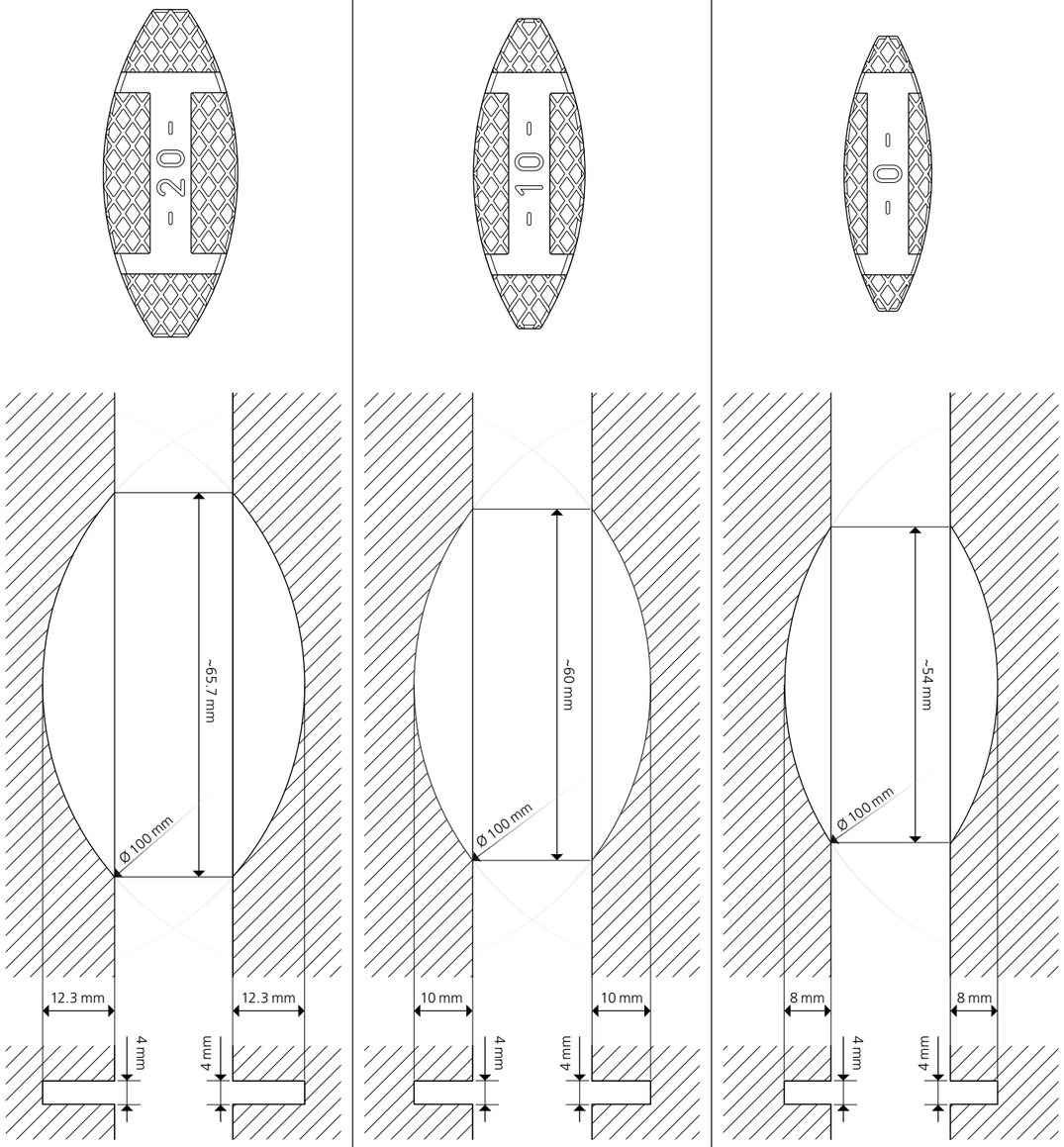
Lamello depth adjustment system

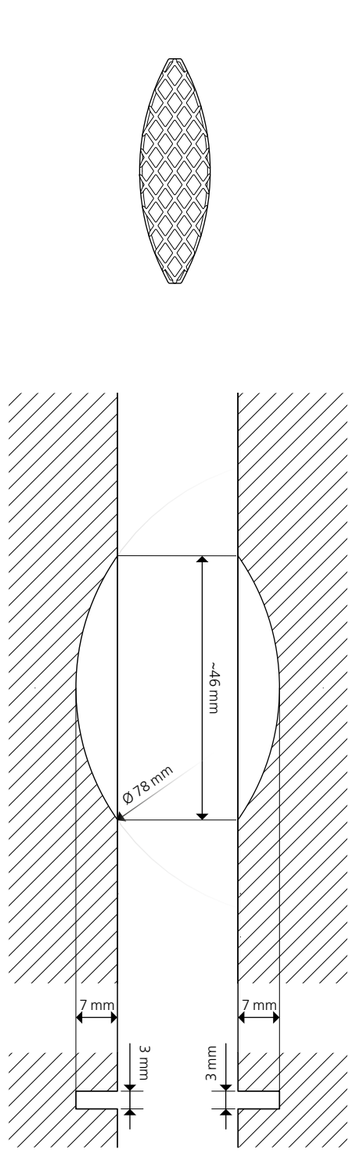
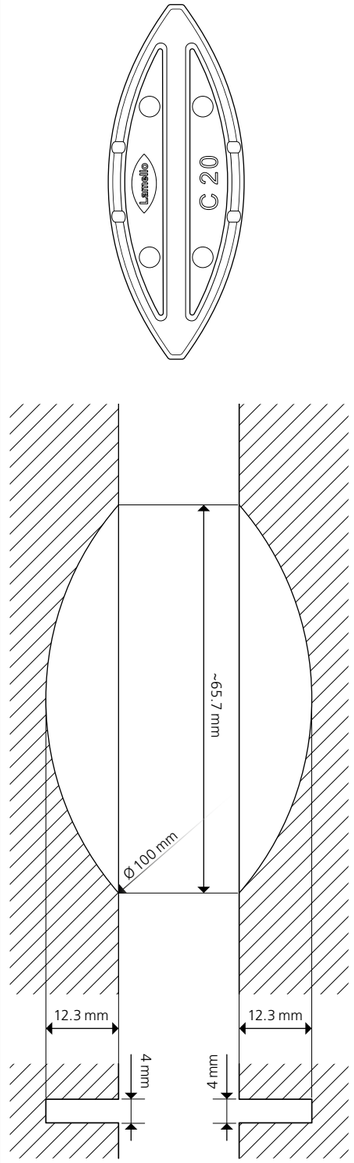
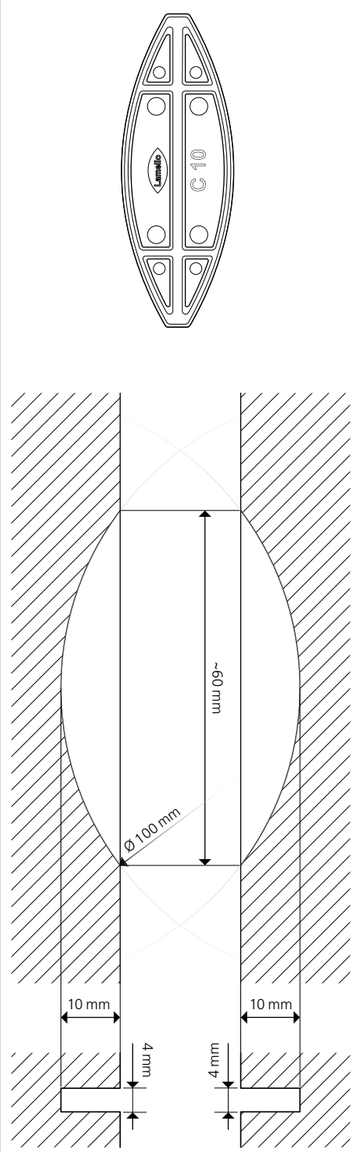


0	**Depth 0** no. 0
10	**Depth 10** no. 10, C10
20	**Depth 20** no. 20, E20-L, K20, C20, Clamex S-20
S	**Depth S** E20-H, Simplex
D	**Depth D** Clamex S-18, E20-L
max	**Depth max** H9 (incl. spacer), E20-L

Technical information

Overview of connectors + grooves (scale 1:1)

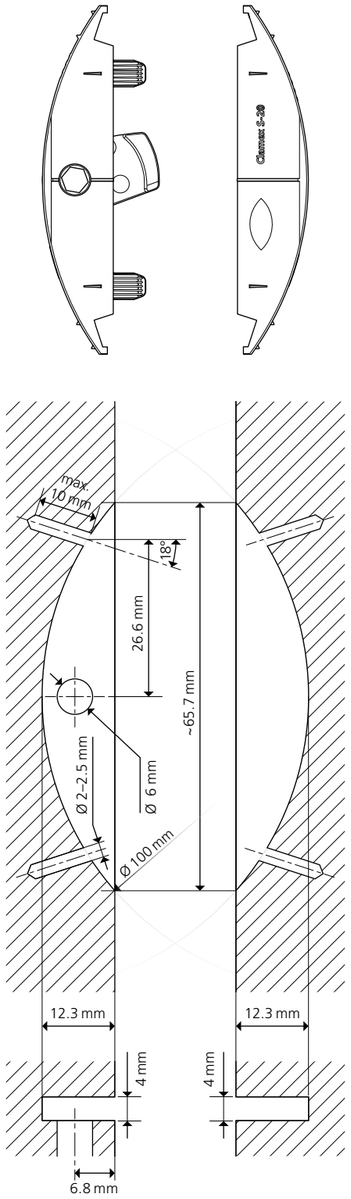
Original wood biscuit 20	Original wood biscuit 10	Original wood biscuit 0
		
Tensile strength (N)		
Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

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

Technical information

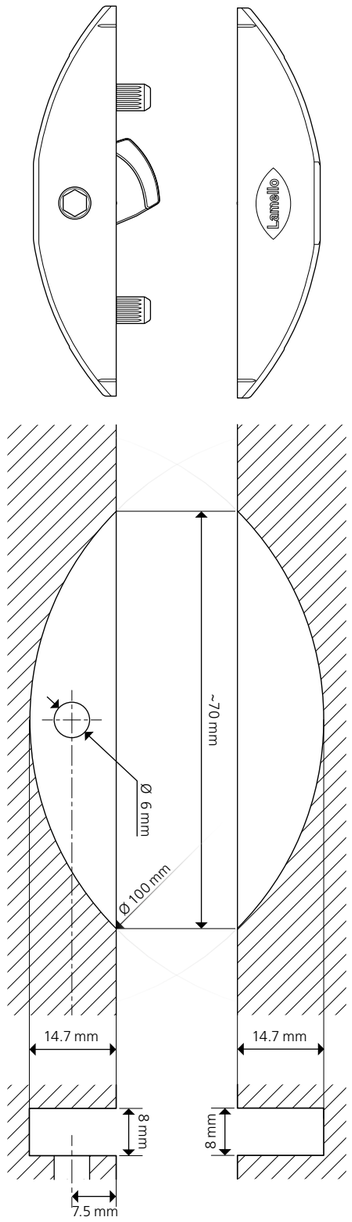
Overview of connectors + grooves (scale 1:1)

Clamex S-20



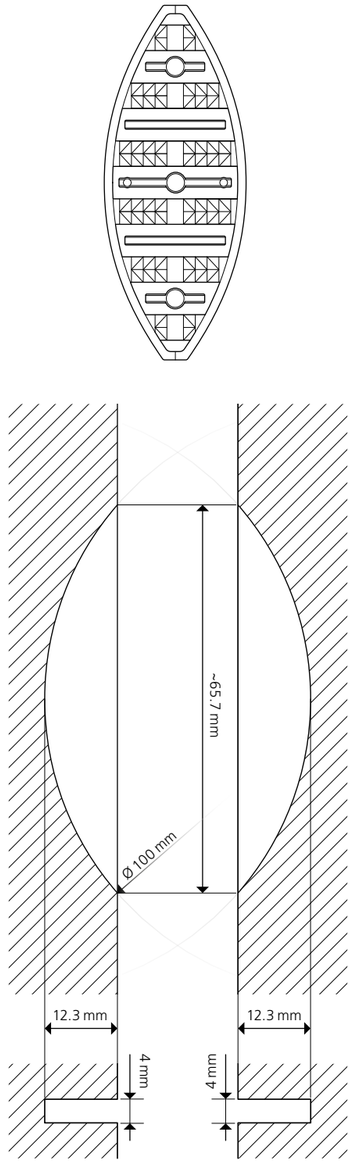
Tensile strength (N)	Up to
MDF	680[1]
Particle board	490[1]
Beech	620[1]

Clamex S-18



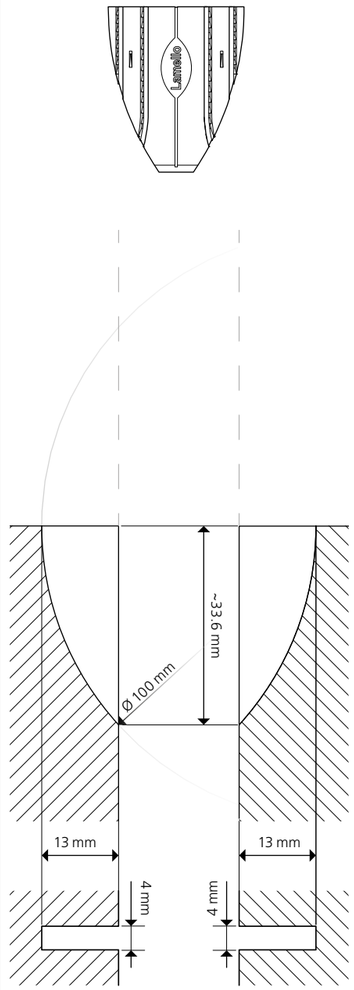
Tensile strength (N)	Up to
MDF	790[1]
Particle board	550[1]
Beech	1420[1]

K20



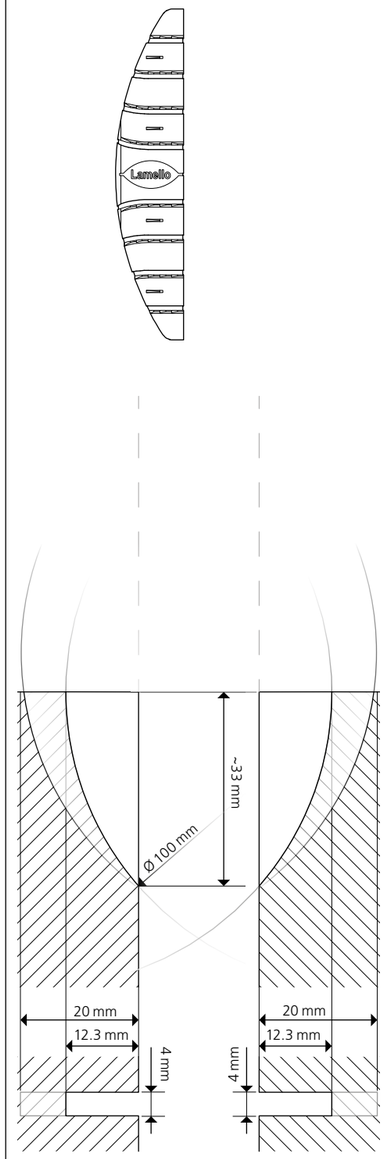
Tensile strength (N)
Depending on the adhesive

E20-H



Tensile strength (N)
Depending on the adhesive

E20-L



Tensile strength (N)
Depending on the adhesive

[1] See comment on load limits on **PAGE 189**

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



Systainer³ M187, with insert and 6 partitions	Art. No.
Systainer³ M187, with insert and 6 partitions	**331579E**
Systainer³ M187, empty	**331579**





	Art. No.
Insert with two partitions for Systainer³ M187	**360024**
Divider for insert 360024	**360019**



Systainer³ M187 plastic insert	Art. No.
For Zeta P2/Top21/Classic X	**360020**



Sortainer	Art. No.
Sortainer incl. dividers RAL 7035 light grey, RAL 3004 purple red	**331581**



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**



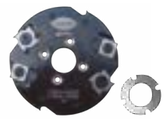
	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	**132106**



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), 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**



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

Batteries



Batteries	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**
Battery pack 18 V, LiHD 5.5 Ah	**313015**
Battery charger ASC 55, plug type C Euro	**123100DE**
Battery charger ASC 55, plug typeG	**123100GB**

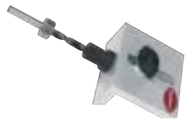
Accessories/ Spare Parts

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	



Clamex S-18 drill jig	Art. No.
Clamex S drill jig 30° – 150°,	**125240**
with 6 mm drill complete	



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-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	



Clamex S-20 drill jig	Art. No.
Incl. drill Ø 6 mm	**125253**



Clamex S-20 Drilling and alignment jig	Art. No.
Clamex S-20 Drilling and alignment jig	**125254**



Torx-Bit	Art. No.
1/4" TX 10 L = 25	**121281**



Clamex wood drill	Art. No.
Ø 6 mm	**131506**



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

Clamping set parts



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



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



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



	Art. No.
Per meter m[1]	**335000**



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



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

Drilling System

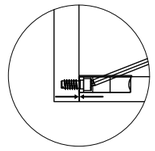
Unique drilling systems for high demands
on productivity and aesthetics

INTERFER

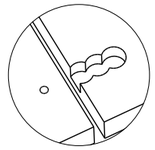
Features Cabineo



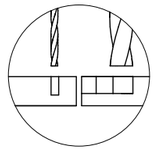
Fast
assembly



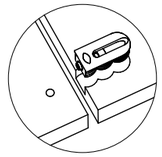
High clamping
force



No edge
drilling

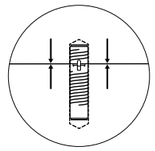


No dowel
holes

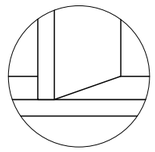


One-piece and
pre-installed

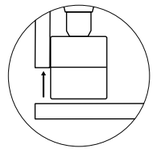
Features Invis Mx2



High clamping
force



Invisible



Detachable

Drilling System

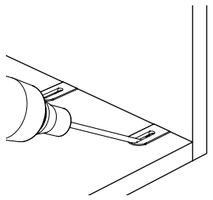
– Cabineo
– Invis Mx2

Overview

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

Detachable

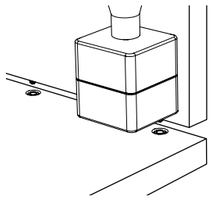
Cabineo

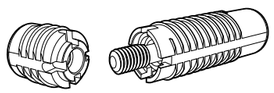


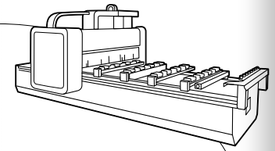


Detachable

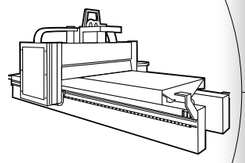
Invis Mx2



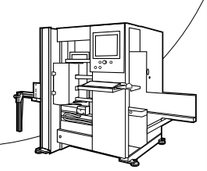




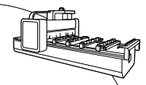
CNC processing centres with **consoles**

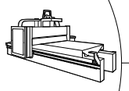


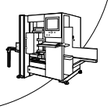
CNC processing centres with **nesting technology**

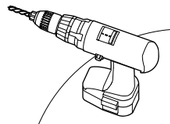


CNC processing centres **vertical**



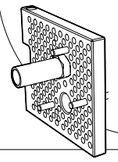


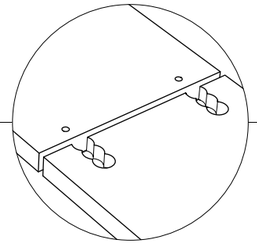


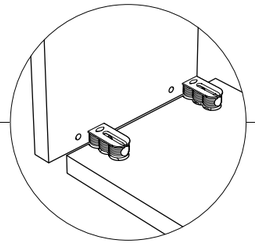


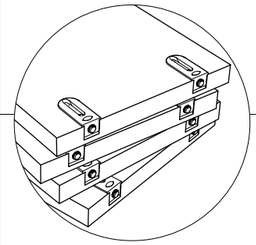
Cordless drill

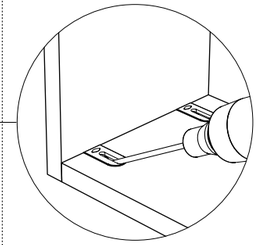
Rasto

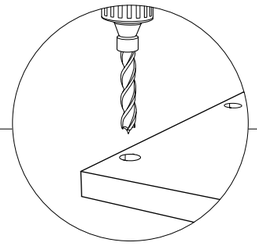


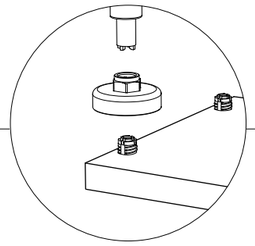


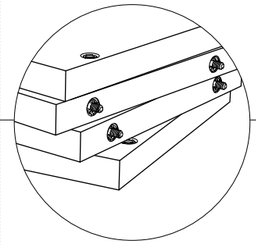


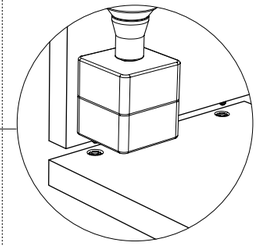












« The fitting impressed us due to its simple processing, time-saving assembly, detachability and high clamping force. »

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

Drilling System

Applications

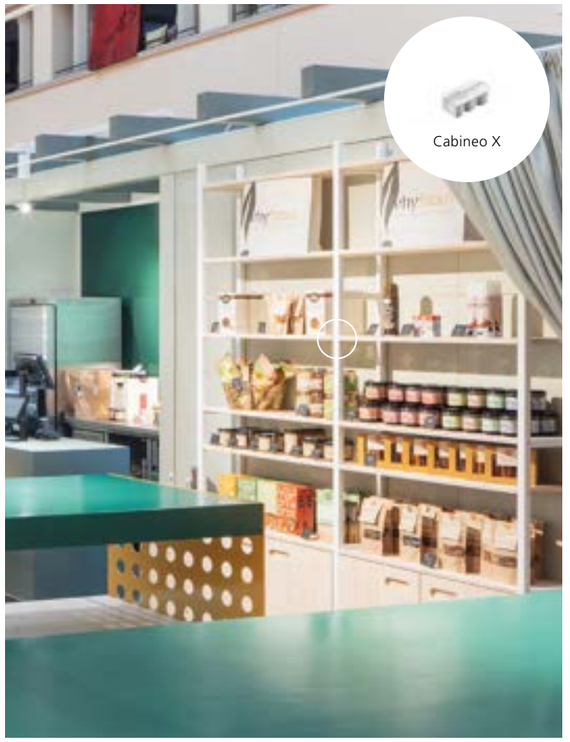
Furniture manufacturing





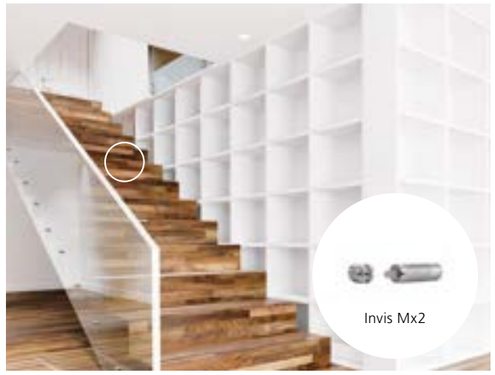


Interior fitting









Drilling System

Applications

Kitchen manufacturing







Commercial joinery









Shop fitting

Cabineo 12

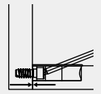
Time-saving cabinet connector
for corner joints from 13 mm



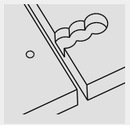
Features



Fast assembly



High clamping force



No edge drilling

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



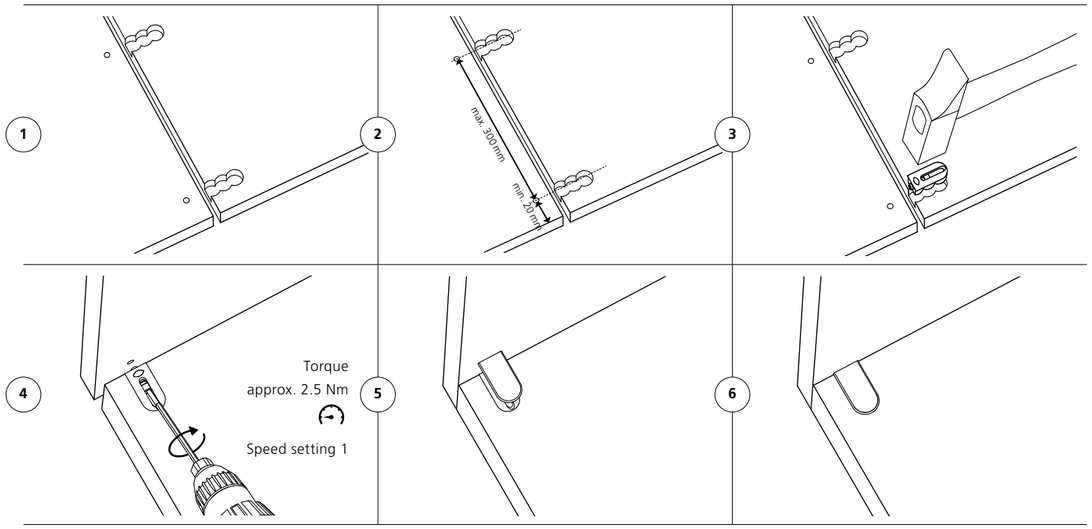
Cabineo 12	Art. No.
500 pieces	**186320**
2000 pieces	**186321**
Cabineo 12 black	
500 pieces	**186330**
2000 pieces	**186331**



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

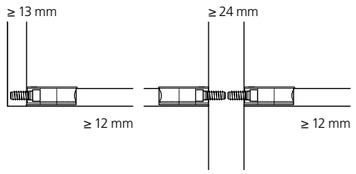
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

See **PAGE 148–149** for technical specifications | [1] See comment on load limits on **PAGE 189**

Cabineo 8

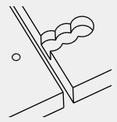
Time-saving cabinet connector
for centre panels from 16 mm



Features



Fast assembly



No edge drilling



Thin materials

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



Articles



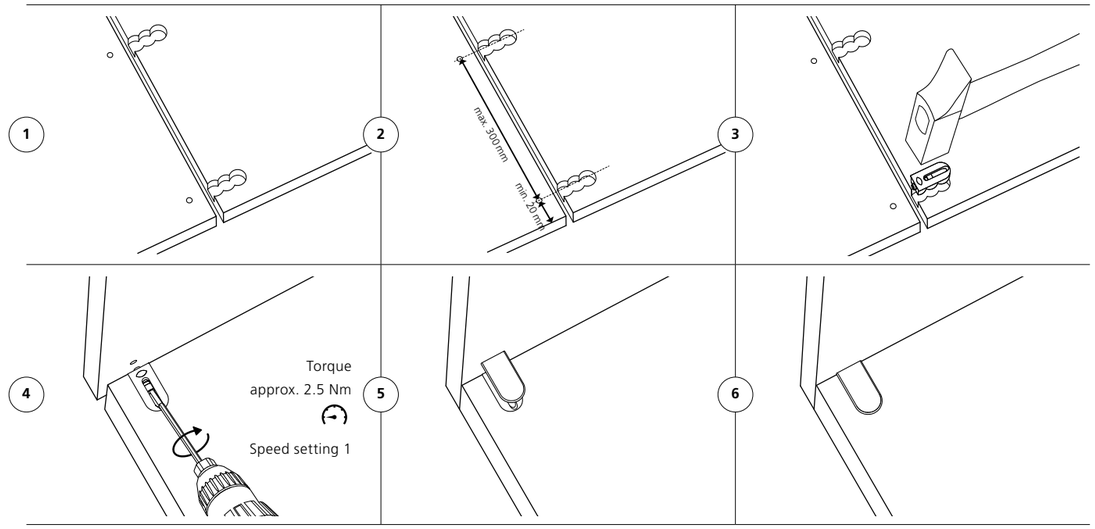
Cabineo 8	Art. No.
500 pieces	**186310**
2000 pieces	**186311**
Cabineo 8 black	
500 pieces	**186340**
2000 pieces	**186341**



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

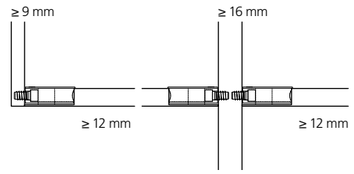
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

See **PAGE 148–149** for technical specifications | [1] See comment on load limits on **PAGE 189**

Cabineo 8 M6

Wear-resistant cabinet connector for various materials and increased strength



Features



Fast assembly



Wear-free connection



Various materials

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



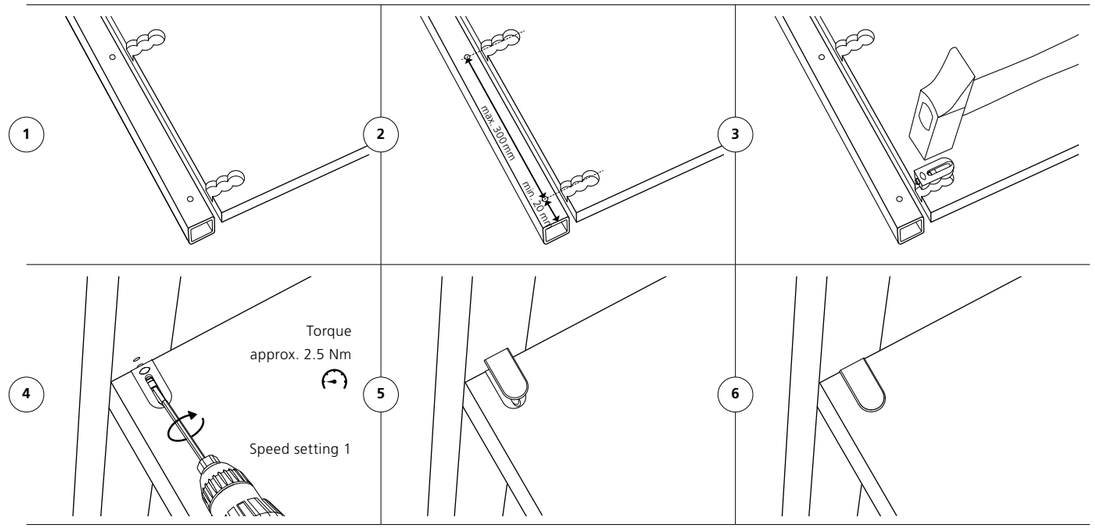
Cabineo 8 M6	Art. No.
500 pieces, metric thread M6	**186315**
2000 pieces, metric thread M6	**186316**
Cabineo 8 M6 black	
500 pieces, metric thread M6	**186345**
2000 pieces, metric thread M6	**186346**



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**

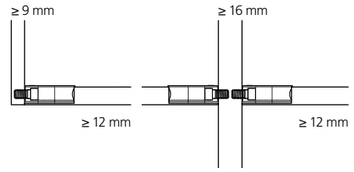
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Size	33.8 × 16.5 × 10.8 mm	
Screw length	8 mm	
Cutter	Ø 12 mm or smaller	
Drill	Ø 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 (N)
	2370[1]	1350[1]
	10 N ~ 1 kg	
Material range	Particle board, MDF, plywood, softwood, hardwood etc.	

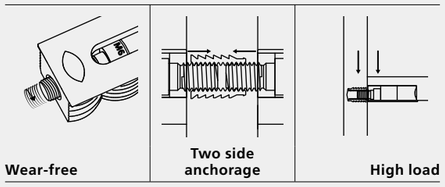
See **PAGE 148–149** for technical specifications | [1] See comment on load limits on **PAGE 189**

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 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**

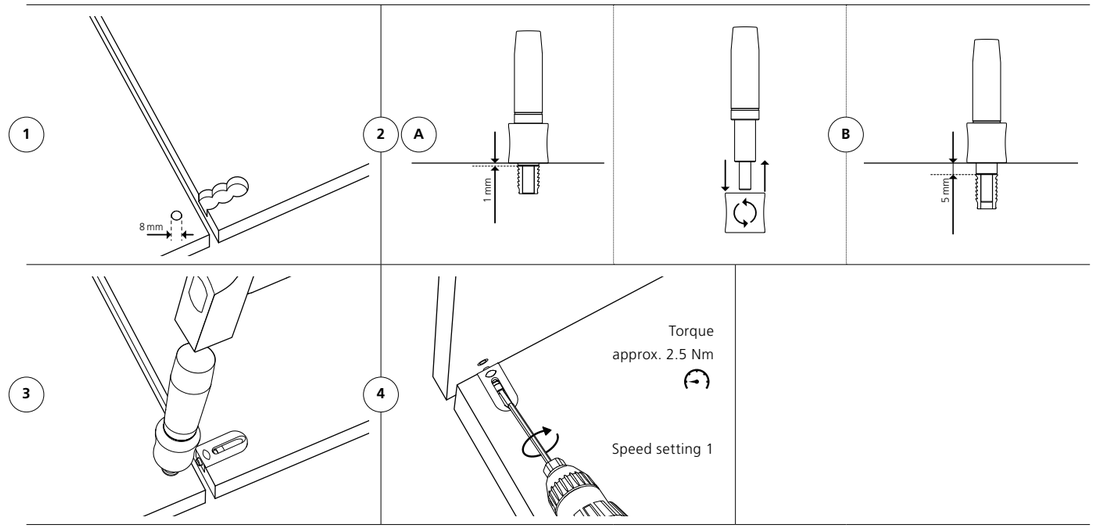


Cabineo insert insertion tool	Art. No.
For insert M6	**276310**

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Experience the connector live and receive comprehensive product information!

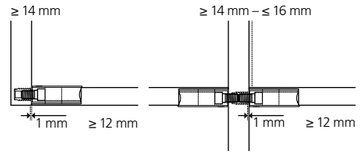
* Cabineo insertion tool is included in delivery for the inserts.

Function

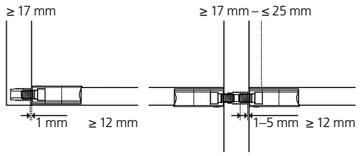


Technical data

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

See **PAGE 149** for technical specifications | [1] See comment on load limits on **PAGE 189**

Cabineo X

Cabinet connector and shelf support without edge drilling



Features



No edge drilling | **Locked shelf** | **Multifunctional housing**

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



Articles



Cabineo X	Art. No.
500 pieces	**186360**
2000 pieces	**186361**
Cabineo X black	
500 pieces	**186365**
2000 pieces	**186366**



Cabineo screw	Art. No.
Cabineo 12, 500 pieces	**186380**
Cabineo 12, 2000 pieces	**186381**
Cabineo 8, 500 pieces	**186382**
Cabineo 8 M6, 500 pieces	**186384**



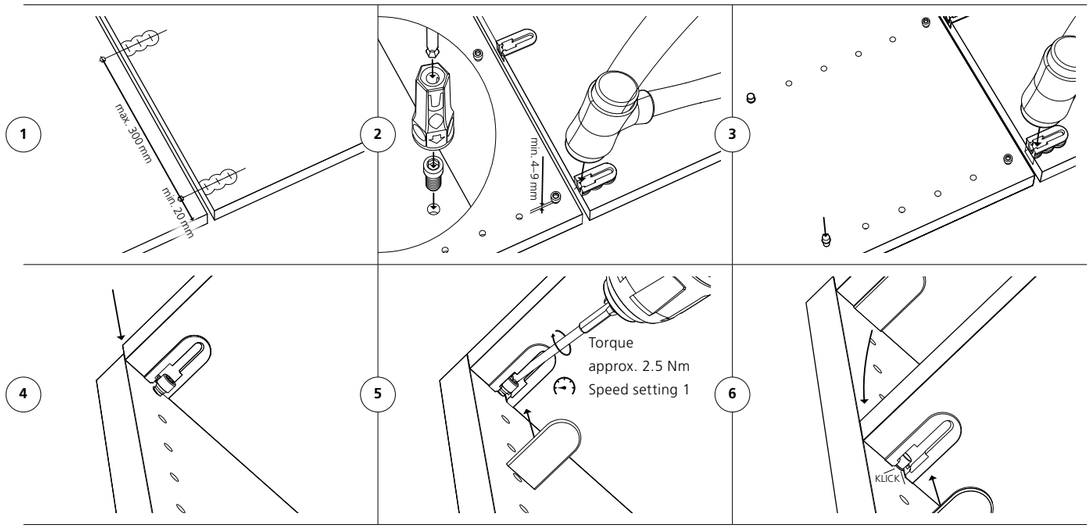
Cabineo X shelf support	Art. No.
Ø 5 mm, 500 pieces	**186386**
Ø 3 mm, 500 pieces	**186388**



Cabineo X starter set	Art. No.
Cabineo X (80 pieces), Cabineo 12 screw (40 pieces), screws- or shelf supports variants (20 pieces each), cover cap signal white (40 pieces), Cabineo hexagon bit 1/4" GL 80 mm and the corresponding Cabineo X screw-in aid (1 piece each)	**186307**

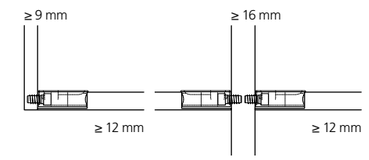
www.lamello.com
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Function

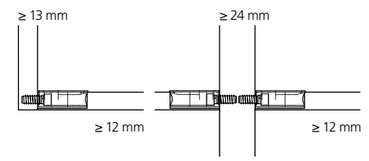


Technical data

Joining methods



Cabineo 8 screw



Cabineo 12 screw

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

See **PAGE 148–149** for technical specifications | [1] See comment on load limits on **PAGE 189**

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

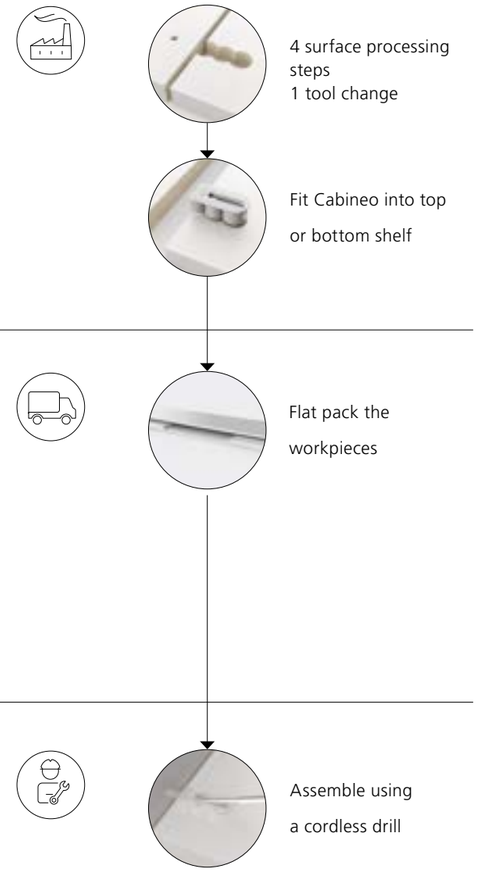
- Efficient pre-installation of the one-piece connector in the factory
- Flat pack delivery with pre-installed connectors
- No extra bags or loose hardware required with furniture shipment
- Detachable for transport or if the fixed shelves need adjusting

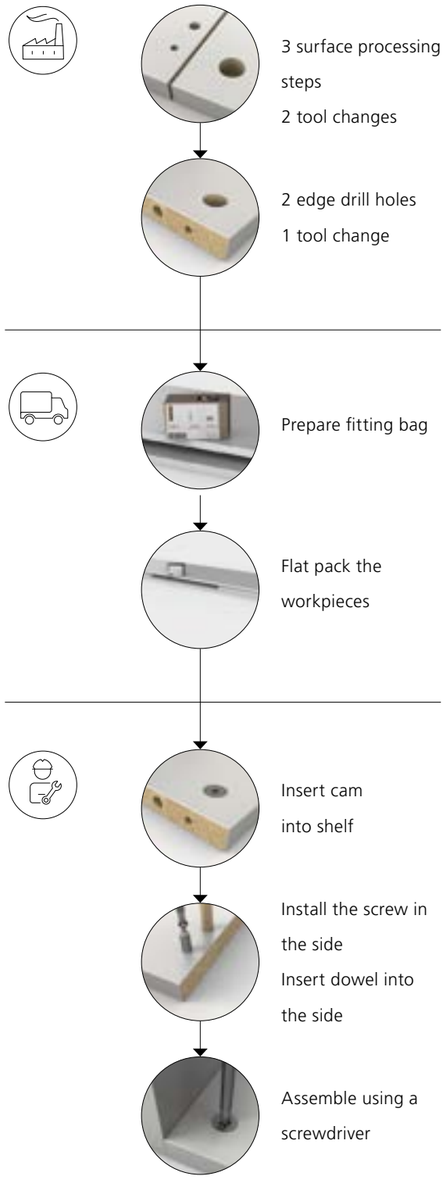
3.
Advantages
in assembly

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





Examples of manufacturing and assembly processes

Cabineo



Flatpack workpiece delivery with pre-assembled connector.



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



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



Position top and push towards the furniture side.



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



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

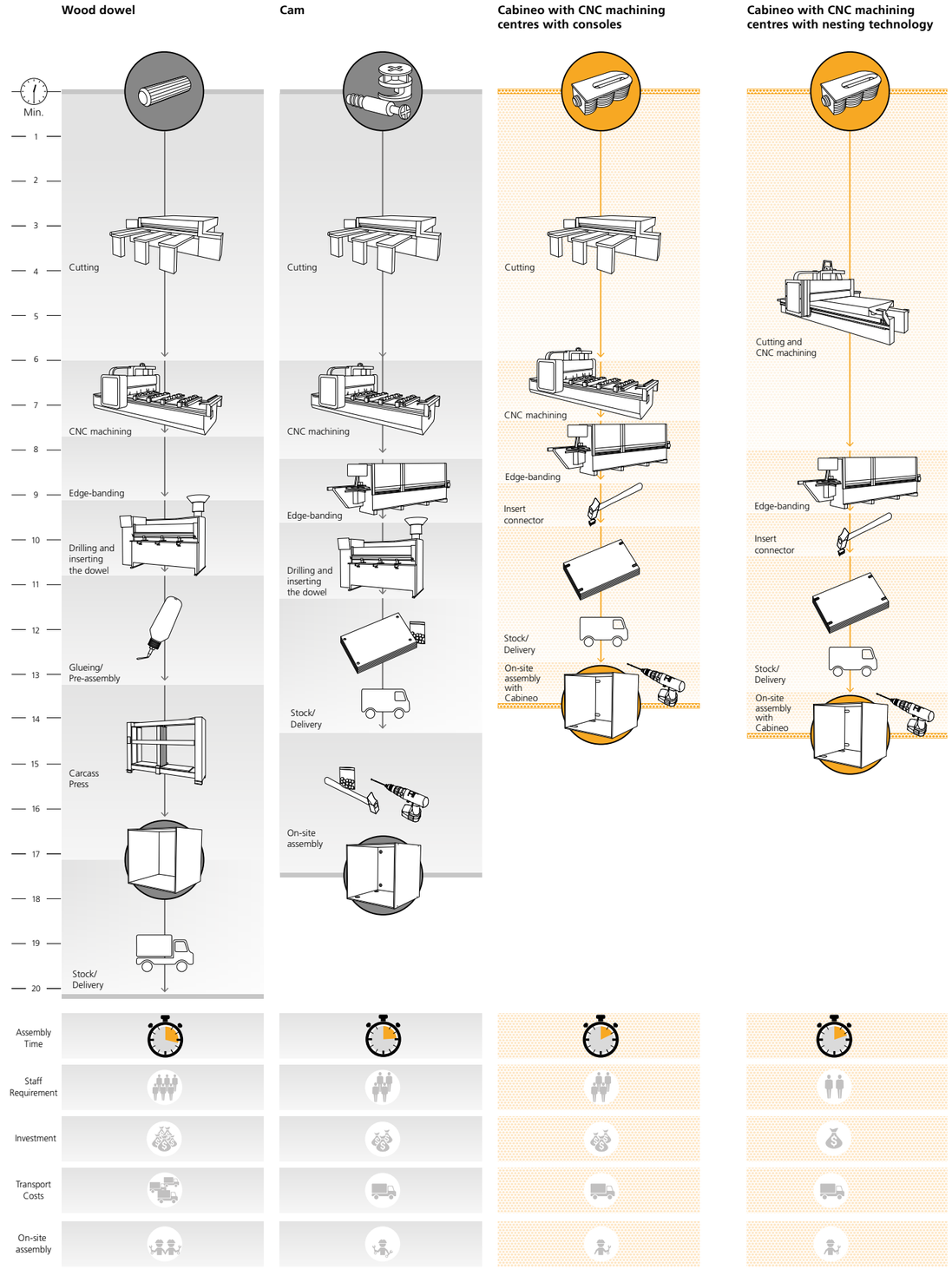


Tip:
- Place one side of the shelf on the shelf support and fasten the other side
- Retract the screw to facilitate installation.



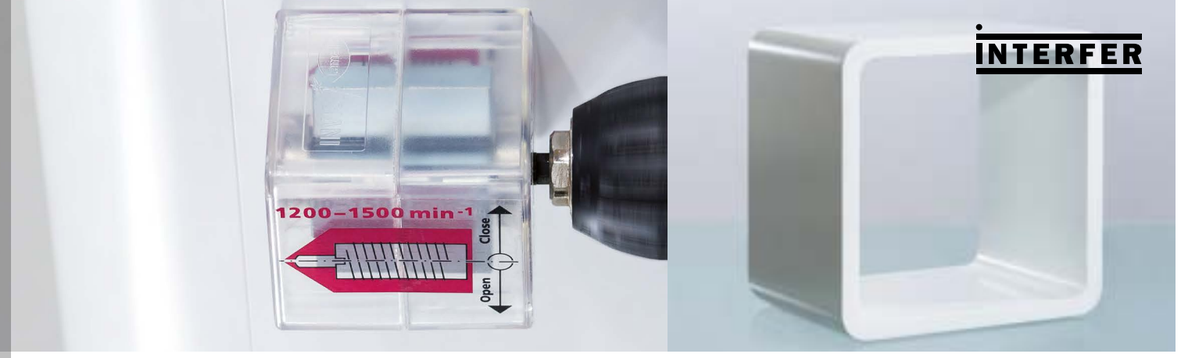
If required, use cover caps on the Cabineo.

INTERFER

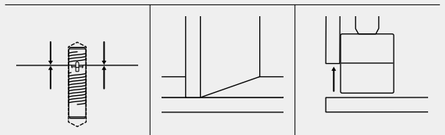


Invis Mx2

Magnet-driven connecting fittings



Features



High clamping force | **Invisible** | **Detachable**

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**



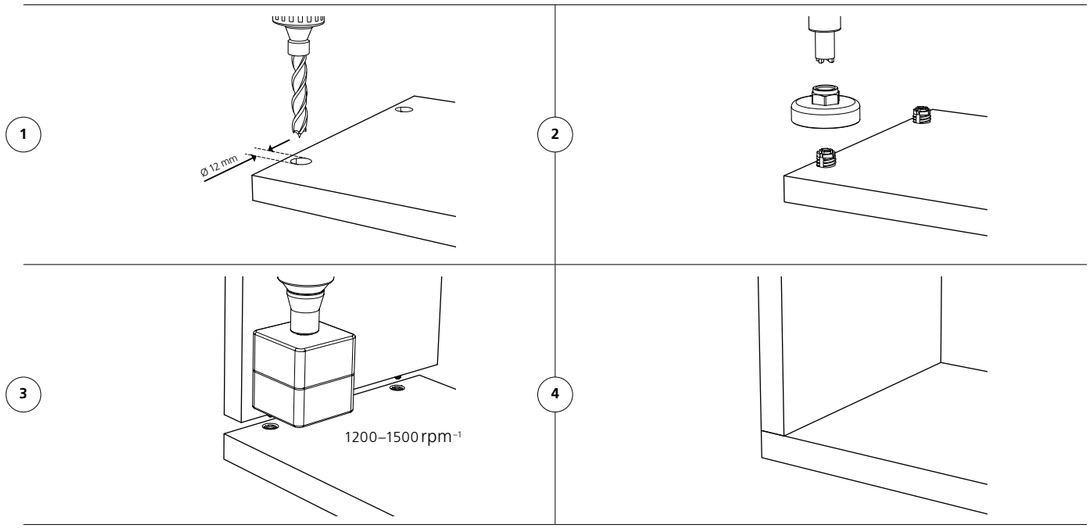
	Art. No.
With 30 mm Invis Mx2 stud, 20 pairs	**6012301**



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 shank, insertion jig	**6100302**

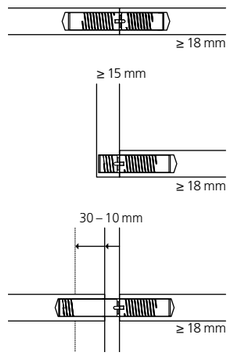
www.lamello.com
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



Size connector	Ø 12 × 35 mm		
Size stud	Ø 12 mm × 30/14 mm		
Size centre-wall stud	Ø 12 mm × 30 mm		
Drill	Ø 12 mm		
Speed MiniMag	Must be 1200–1500 rpm⁻¹		
Material housing	Zinc		
Installation 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	1460 [1]	2260 [1]
	Particle board	1220 [1]	1580 [1]
	Beech	3280 [1]	5130 [1]
Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

See **PAGE 150 – 151** for technical specifications | [1] See comment on load limits on **PAGE 189**

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**

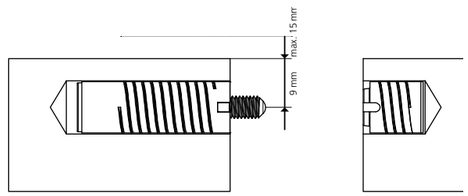


Invis Mx2 MiniMag Art. No.

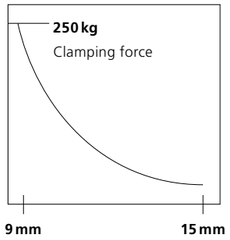
Incl. screw bit **6100301**

Function

1



2



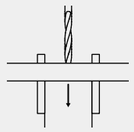
Small distance from the edge for high clamping force

Rasto drill jig

Universal drill jig without measuring or marking



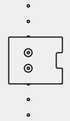
Features



Drill without marking



All workpiece shapes



32 mm hole rows

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

Rasto is also suitable for 8 mm dowel holes or 5 mm holes for handles or for row hole drilling.



Articles



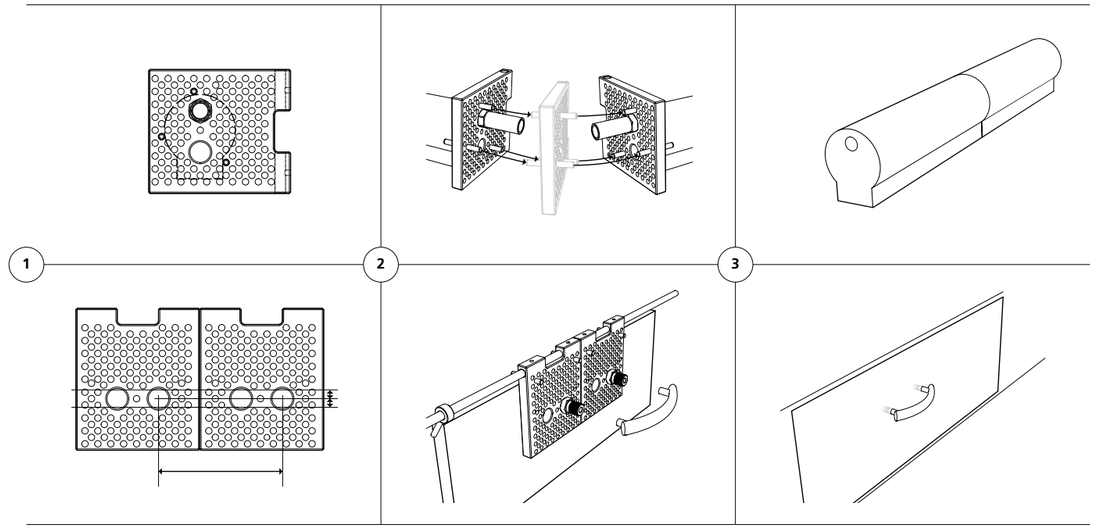
Rasto Duo set	Art. No.
In a systainer: 2 transparent perforated plates, 8 drill bushings, 2 × Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm, 6 positioning bolts, 2 fastening screws, 1 connection rod, 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush	**126007**

Rasto Basic set	Art. No.
In a cardboard box: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 positioning bolts, 1 fastening screw	**126005**

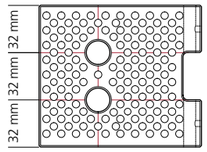
Rasto Mono set	Art. No.
In a systainer: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm, 3 positioning bolts, 1 fastening screw, 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush	**126006**

www.lamello.com
Experience Rasto live and receive comprehensive product information!

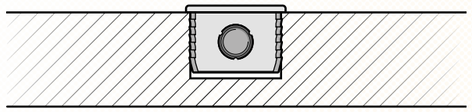
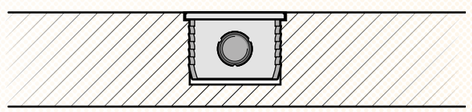
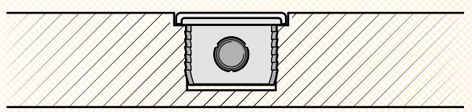
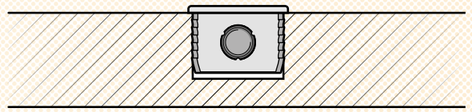
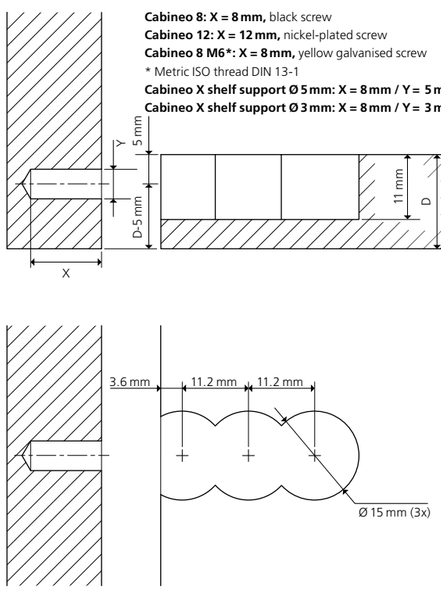
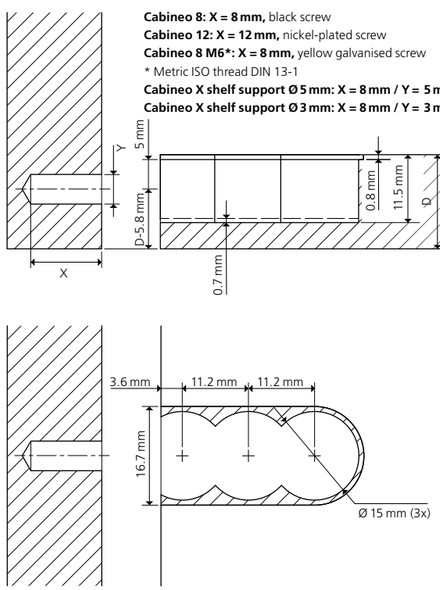
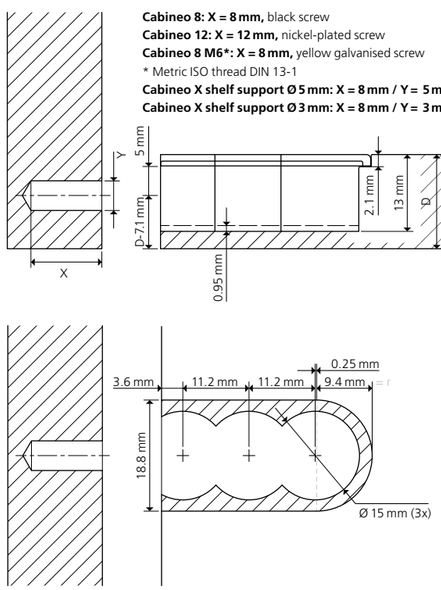
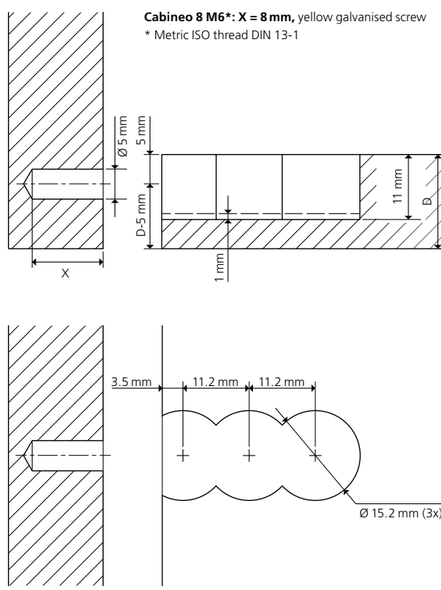
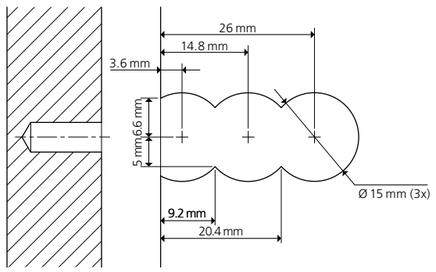
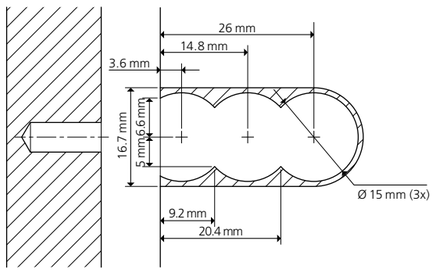
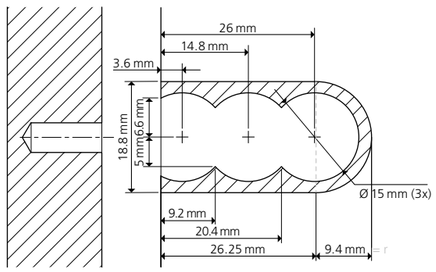
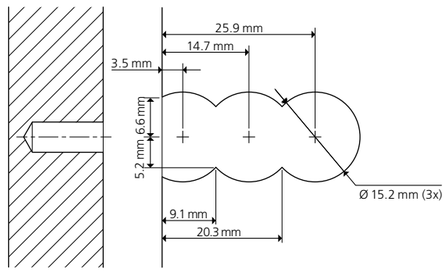
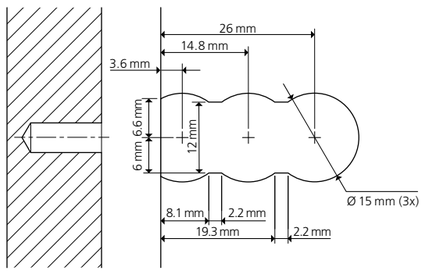
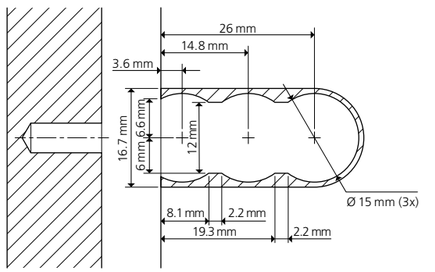
Function



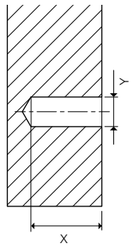
Technical data

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

Machining Cabineo

Installation options	On the surface	Flush with the surface	Flush cover cap	HPL on the surface
				
Machining options	**Cabineo 8: X = 8 mm,** black screw **Cabineo 12: X = 12 mm,** nickel-plated screw **Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1 **Cabineo X shelf support Ø 5 mm: X = 8 mm / Y = 5 mm** **Cabineo X shelf support Ø 3 mm: X = 8 mm / Y = 3 mm**	**Cabineo 8: X = 8 mm,** black screw **Cabineo 12: X = 12 mm,** nickel-plated screw **Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1 **Cabineo X shelf support Ø 5 mm: X = 8 mm / Y = 5 mm** **Cabineo X shelf support Ø 3 mm: X = 8 mm / Y = 3 mm**	**Cabineo 8: X = 8 mm,** black screw **Cabineo 12: X = 12 mm,** nickel-plated screw **Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1 **Cabineo X shelf support Ø 5 mm: X = 8 mm / Y = 5 mm** **Cabineo X shelf support Ø 3 mm: X = 8 mm / Y = 3 mm**	**Cabineo 8 M6*: X = 8 mm,** yellow galvanised screw * Metric ISO thread DIN 13-1
Drill 15 mm				
Cutter Ø 10 mm				
Cutter Ø 12 mm				

Machining Cabineo Insert

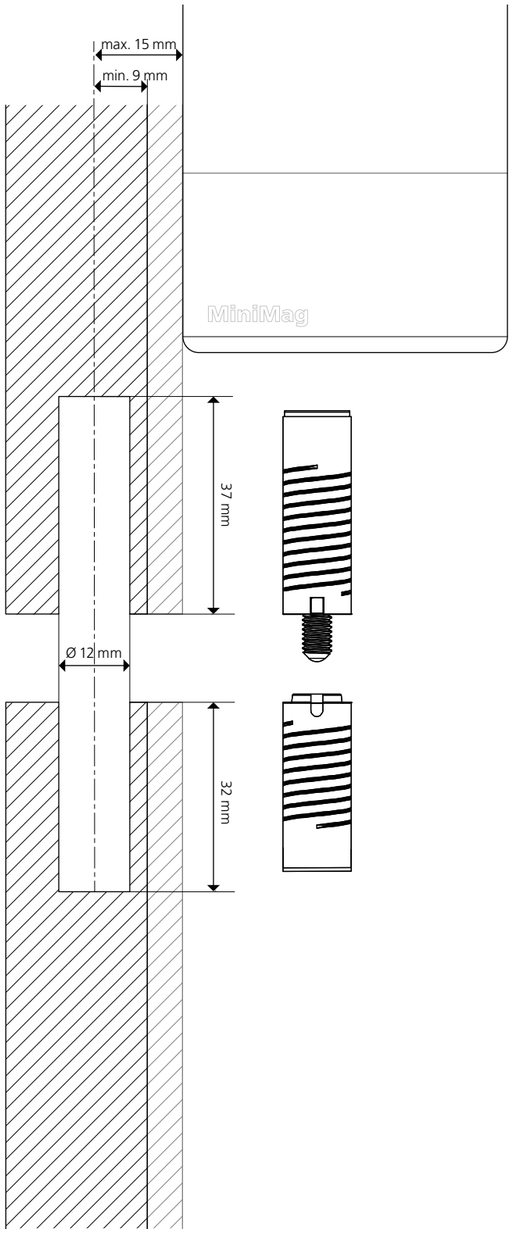


	X	Y = Ø
	[mm]	[mm]
Cabineo 8 M6*	8	5
Insert M6 × 12.3	13.5	8
Insert M6 × 15.3	16.5	8

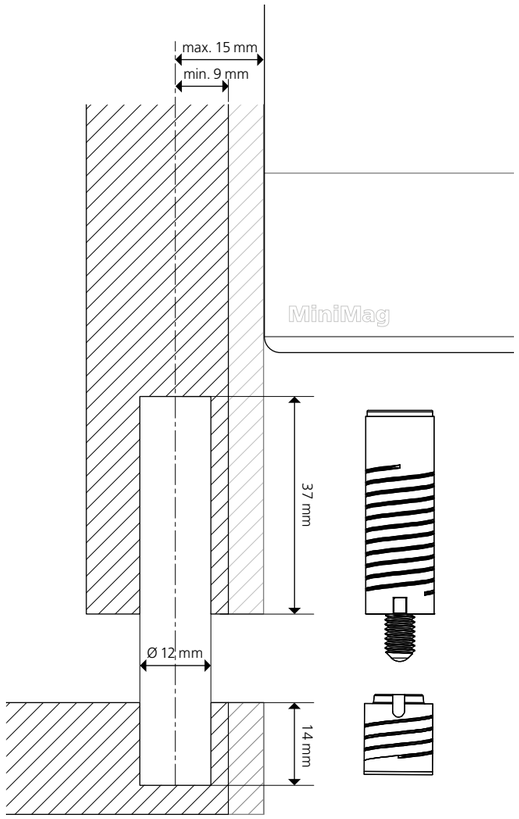
* Metric ISO thread DIN 13-1

Machining Invis Mx2

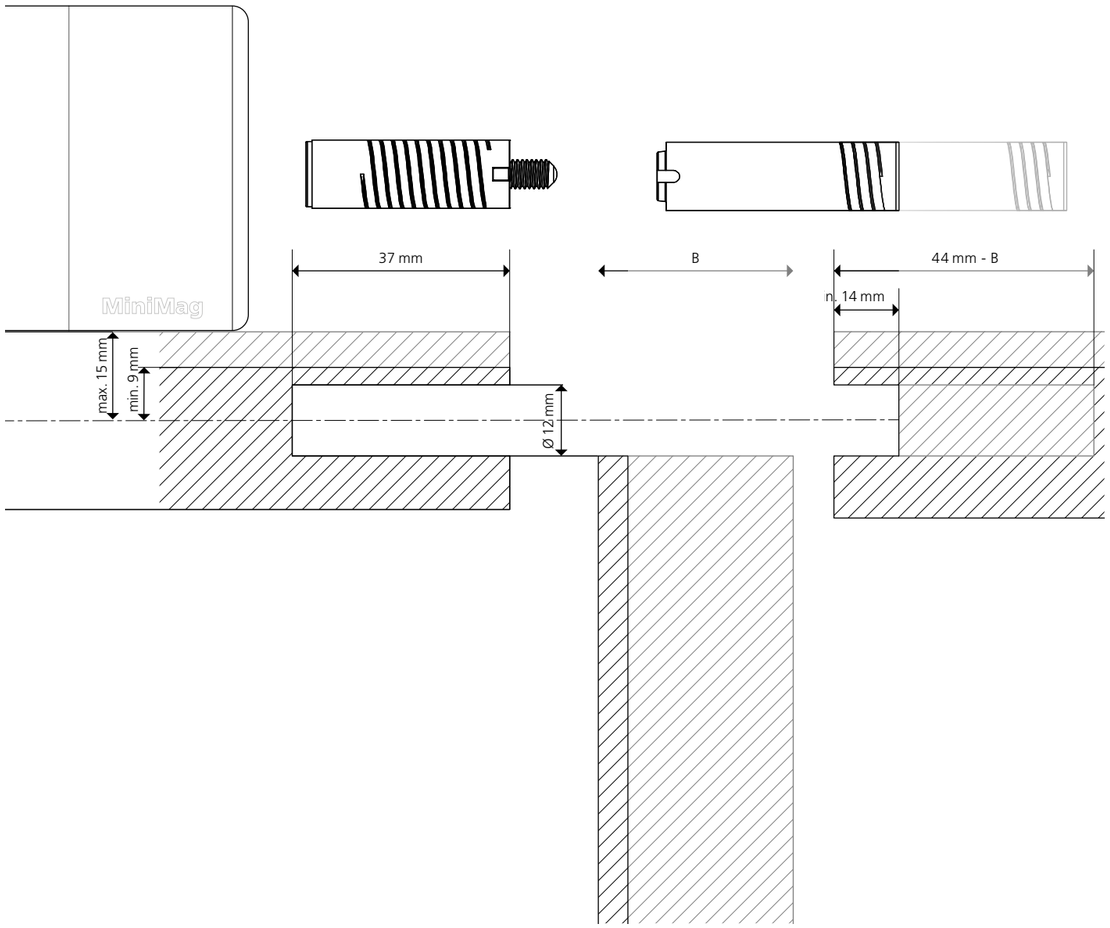
Invis Mx2 stud 30 mm



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" GL 120 mm	**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)	

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



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**

Cabineo X



Cabineo 12 screw	Art. No.
500 pieces	**186380**
2000 pieces	**186381**



Cabineo 8 screw	Art. No.
500 pieces	**186382**



Cabineo 8 M6 screw	Art. No.
500 pieces	**186384**



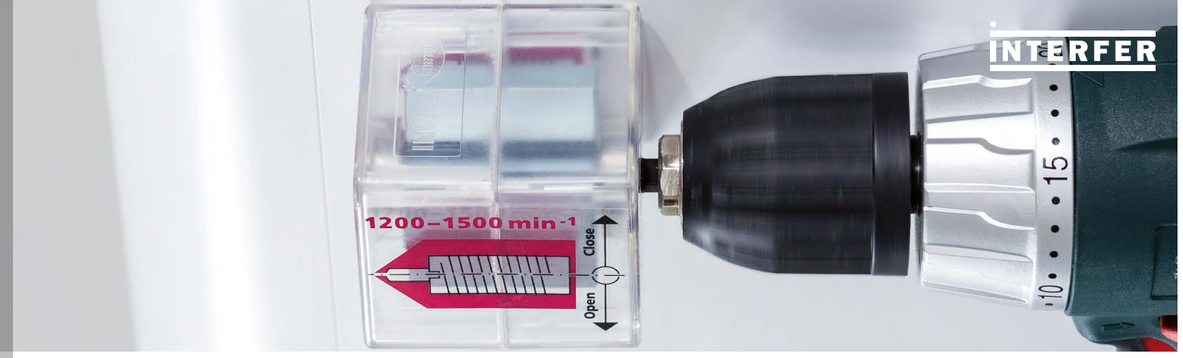
Cabineo X shelf support	Art. No.
Ø 5 mm, 500 pieces	**186386**
Ø 3 mm, 500 pieces	**186388**



Cabineo X screw-in aid	Art. No.
Suitable for Cabineo hexagon bit 1/4" GL 80 mm	**276313**

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 shank	Art. No.
1 piece	**6100204**



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



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

Rasto



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



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



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



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



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



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

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



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

Networked production

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

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



CAD/ERP/CAM software

2020 · BORM · CAD.T CONSULTING · HEXAGON ALPHACAM · HEXAGON CABINET VISION · cadwork · DDX · NC-HOPS · iFurn · imos · KCD Software · LIGNOCAM · Microvellum · OSD by CRAFTVIEW · PaletteCAD perfect rooms · Pegasus · PYTHA · RSO Group · rwdm.ch · SmartCABINET · SmartWOP · SPAZIO 3D · Swiss al CAD · SWOOD · TopSolid · tpa · TrunCAD · VECTORWORKS · woodlab STUDIO · tapio · Xcad

CNC machines/Aggregates/CNC tools

AES · Biesse · FORMAT · GANNOmat · HOLZHER · Holzfräse · HOMAG · KOMO · IMA SCHELLING GROUP · INFOTEC CNC · masterwood · OMAL · scm group · Vitap · TEMAG · BENZ · GROTEFELD · HSD · leitz · LEUCO · OERTLI · UTENSIL TECNICA TAILORED TECH TOOLS



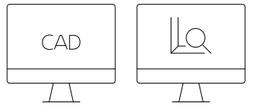


« If a product is automated – or can be controlled digitally – it will be used. »

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

INTERFER

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



CAD/ERP/Configurator software

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

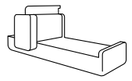
The degree of integration of the data and the parameterised position rules influence planning efficiency.



CAM software

- Software for generating CNC programming data
- Post-processor

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



CNC machine

- Machine with 3/4/5-axis

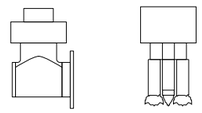
The number of axes and equipment options influence the processing possibilities



CNC software

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

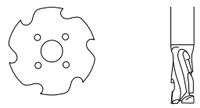
The macro/component determines/affects the processing possibilities



Suitable aggregate

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

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



- Purchase tools from Lamello or a P-System tool partner
  You can find the tools recommended by Lamello on **PAGES 172 – 174.**

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

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

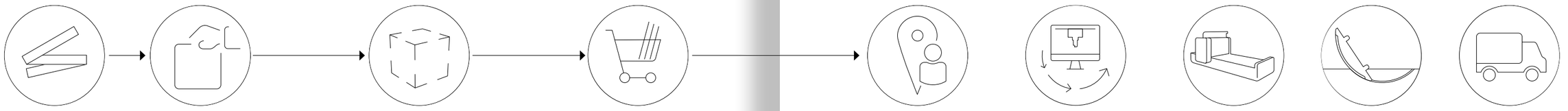
Networked production

Overview of the production process

Enabled by Lamello planning and machining partners



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

P-System with CNC

Joining methods and requirements for
CNC machines/machining options



CNC machines		With consoles/ vertical or horizontal							With nesting technology				
Number of axes		3				4	5		3		5		
			Machining option	Machining option				Machining option		Machining option			
Joining methods	Machining												
	Access drill hole												
	Profile groove in the edge					C				G		G	
	Profile groove on the surface (close to the edge)	A [1]	E	F		C			E	F	D	A	F
	Profile groove on the surface (centre of the surface)*	A [1]	E	F		C	A		E	F	D	A	F
	Access drill hole 45°					C							
	Profile groove in the edge 45°	B [1]				C							
	Access drill hole 22 – 108°					C							
	Profile groove in the edge 22 – 108°					C							

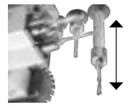
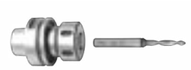
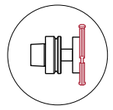
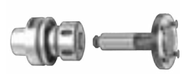
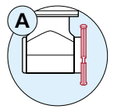
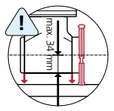
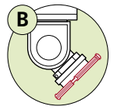
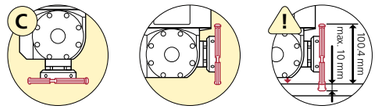
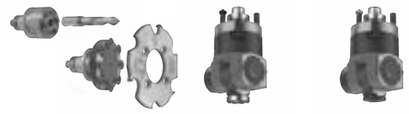
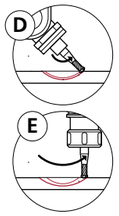
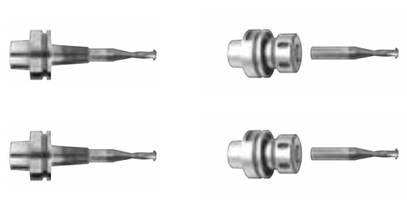
* The Divario P-18 can also be used as an alternative connecting element in the middle of the surface. (2 × 8 mm holes without profile groove)

[1] Without a C-axis, the angle unit cannot be rotated by 90°/180°. Alternatively, the workpiece could be rotated and work in two steps.

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

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
	 	 	**Saw blade clamp** Ø 40/DTK 52 mm and cutter 132143 or with **collet chuck** and cutter arbor
 	 	  	**Angle aggregate** – One to four spindle angle aggregates – Floating trimming unit for P-System – Corner notching aggregate – Aggregate for door locks
	 	  	**Manually adjustable swivelling aggregates** **Information:** Several tool changes required for angle cuts, drilling and P-System grooves
			**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 shank Ø 10 mm, tool protrusion max. 50 mm – Tool holder WFC 40-25 with flange and cutter 132143
			**Shrink chuck** for clamping Ø 12 × 40 mm and shank tool 131342 or **collet chuck** for clamping Ø 12 × 40 mm and shank tool 131342

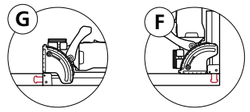
Comments
P-System CNC drill bit on **PAGE 172**
You can find dimensions for cutters and clamping Ø and lengths of cutter arbors on **PAGE 172/173**
A unit overview can be found on the Lamello website: www.lamello.com under planning and machining partners
Note: The cutting depth in the centre of the surface may be restricted depending on the model. **Tip:** For a mitre, the drill hole could be made with the manual drill
Note: In the centre of the surface, the profile groove depth is limited to 10 mm
P-System CNC shank tool cutter on **PAGE 173.**

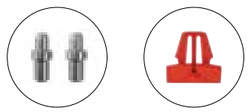
* More information on **PAGES 172 – 173**

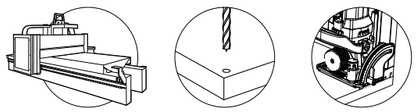
The information concerns technical options regarding how the applications could be implemented.
These must be adapted to your company facilities and coordinated with the planning and machining partners.

Possible combination of CNC machines with Zeta P2

More regarding the machining on **PAGE 169**



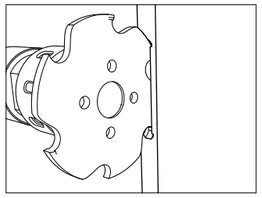


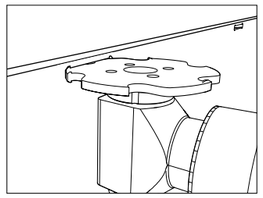


P-System equipment options

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

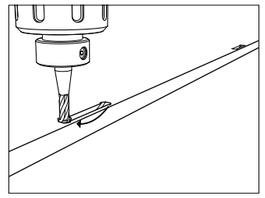
❶ · ❷ · ❸

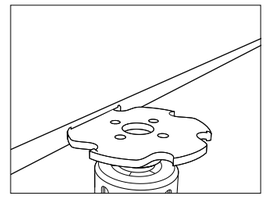


Vitap
Create Smarter

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 shank tool
cutter* in HSK63F
1× drill Ø 6 mm

*optional for P-System CNC
shank 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 shank tool
cutter
1× drill Ø 6 mm

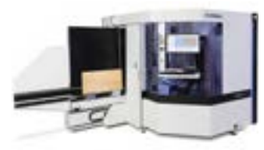
❶ · ❷ · ❸



HOMAG

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

❶ · ❷ · ❸



HOMAG

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

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

❶ · ❷ · ❸ · ❹



morbidelli

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

❶ · ❷ · ❸

Connectivity

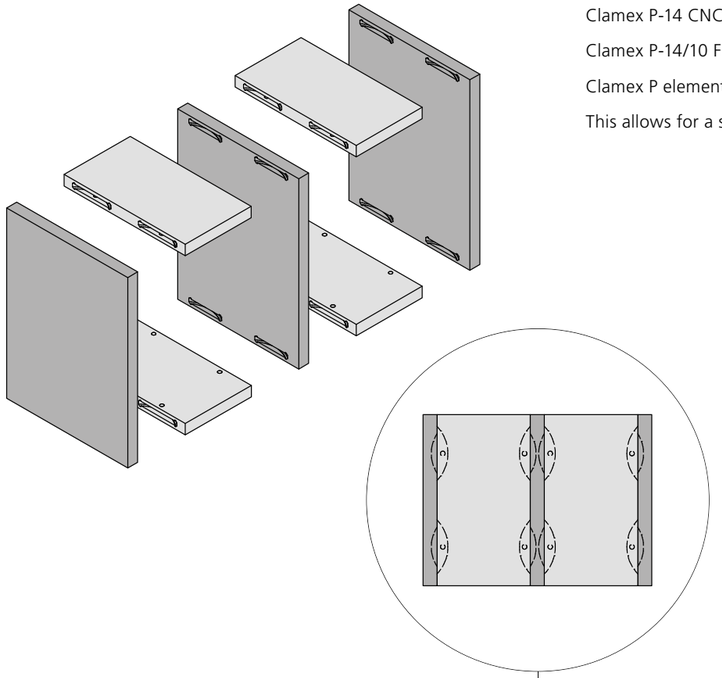
Surface 180°	Corner 90°	Centre wall 90°	Mitre 2× 45°
❶	❷	❸	❹

www.lamello.com

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)



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



Clamex P-14	
2000 pieces element with lever	**145338**



Clamex P-14/10 Flexus	
2000 pieces element with lever	**145318**

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



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

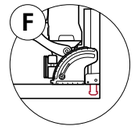


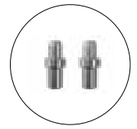
Clamex P-10 Medius	
2000 pieces element without lever	**145369**

Possible combination of CNC machines with Zeta P2

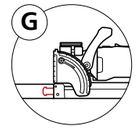
Precise drilling on a CNC machine; use these drill holes to position the Zeta P2 to cut the P-System grooves.
This application is especially ideal if the CNC machine is a nesting machine and or no aggregate is available.
This method combines the precision and efficiency of a CNC machine and uses the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

Positioning drill holes for the Zeta P2





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

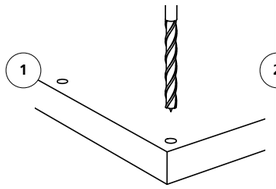




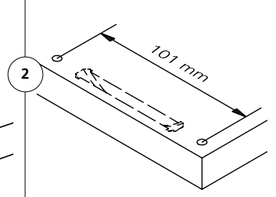
Positioning clip CNC for Zeta P2	Art. No.
Ø 6 mm for positioning in the Clamex P access hole (6 mm)	**251067**

Machining steps

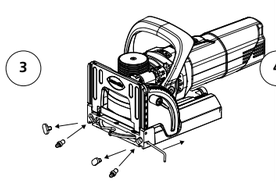
1. Drill the positioning holes with the CNC, Ø 5 mm/Ø 8 mm



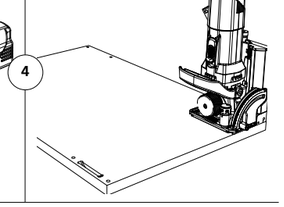
2. Hole pattern of the positioning drill holes axis spacing 101 mm



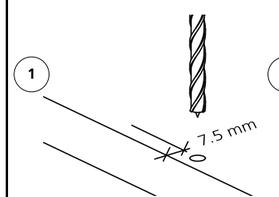
3. Insert the positioning pins in the Zeta P2



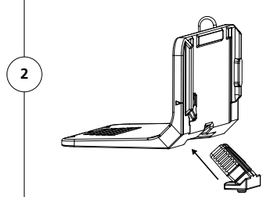
4. Position the machine in the drill holes



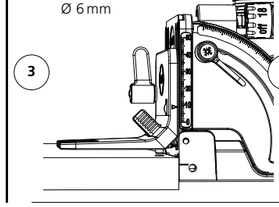
1. Drill the positioning hole with the CNC, Ø 6 mm



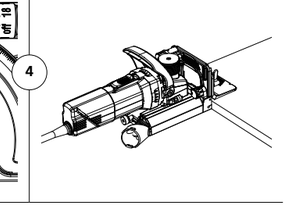
2. Insert the positioning clip



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



4. Cut the groove with the positioned machine



Cabineo with CNC

Specific equipment options for CNC machines for Cabineo



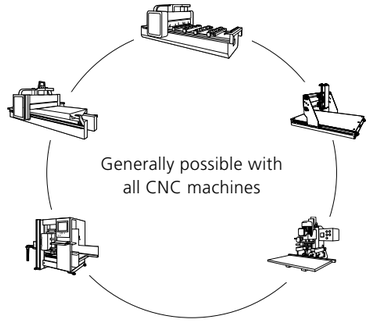


CNC machine

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

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





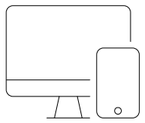








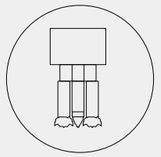
www.lamello.com



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CNC tools - aggregate

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

Supplier of triple drilling unit for Cabineo:

Benz MULTI V3 CABINEO
Vertical multi-spindle head (direction of rotation of the drills 1 piece left hand rotation, 2 pieces right hand rotation)
Atemag VERTINEO FUNCTION LINE
Drilling unit for Cabineo connector All-In-One. (Direction of rotation of the drills 2 pieces left hand rotation, 1 piece right hand rotation)
Grotefeld DPL-03-03-CABINEO
Multi-spindle drilling unit DPL (Direction of rotation of the drills, both options possible: 1 drill left hand rotation, 2 drills right hand rotation or 2 drills left hand rotation, 1 drill right hand rotation)



CNC tools

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

Leuco drills for triple drilling units*
Solid carbide (VHW), special LEUCO cutting edge and pre-cutter geometry for minimum cutting force and cutting pressure.
Leitz drill bits for triple drilling units
Solid carbide, round pre-cutter geometry for very good drill edge quality, extremely wear-resistant carbide grade.

* Cabineo drills for aggregate see **PAGE 174**









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, shank = 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**
Ø 100.4 × 7 × Ø 30 mm, Z3, NL 4 × Ø 6.6 × Ø 48 mm LH for Weeke BHX 200 / DRILLTEQ V-500 (left hand rotation)	**132149**



	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, Morbidelli cx110	**132148**
Ø 100.4 × 7 × Ø 35 mm, Z3, NL 4 × Ø 5.5 × Ø 50 mm LH e.g. for Format4 Nesting profit H08 (left hand rotation)	**132180**



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



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



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



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



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



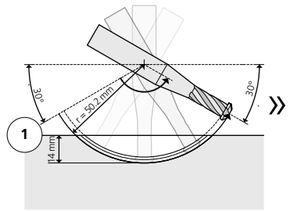
	Art. No.
Shank Ø 20 × 50 mm, L = 85 mm, with clamping surface (2°- angle) e.g. for aggregate for door locks	**132155**
M6 × 16 mm Torx countersunk bolt, 4 pieces, suitable for cutter arbors	**132159**
Screwdriver with cross-grip, Torx T20 × 100 mm	**271919**



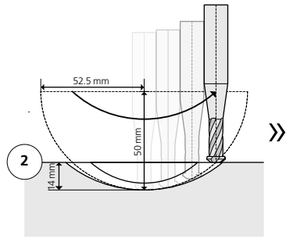
P-System CNC shank tool cutter	Art. No.
HW solid (carbide), shank Ø 12 × 40 mm, L = 80 mm	**131342**

INTERFER

One tool with 2 functions



P-System CNC shank tool cutter with 5-axis



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

CNC tools

For Cabineo



Drilling System

Cabineo 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*

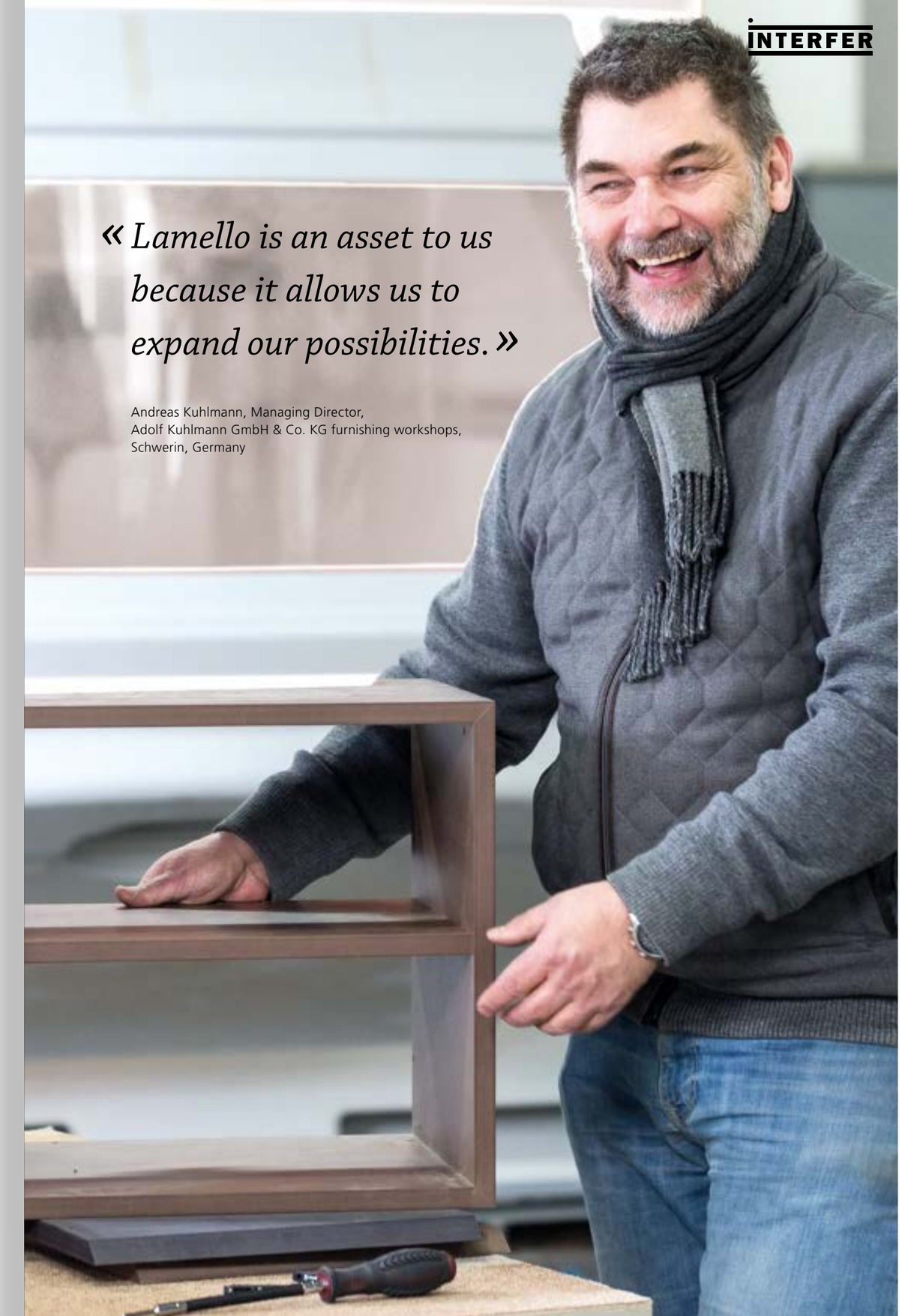


	Art. No.
Cabineo drills for aggregate Ø 15 mm RH carbide tipped (right hand rotation)	**136314**



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

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



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, 120 pairs Tenso P-14 incl. preload clip, 30 pairs Tenso P-10 incl. preload clip, 20 pieces Bisco P-14, 20 pieces Bisco P-10, 80 pairs Divario P-18, Divario installation tool/drill/ marking gauge, Clamex assembly tool, Tenso P-14/10 preload tool, Sortainer T-loc incl. dividers	**145323**



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

Clamex P



Clamex 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, 5000 pieces, 90°		Art. No.
RAL 9010 pure white	○	**335296**
RAL 9011 graphite black	●	**335291**
RAL 1014 ivory, pine	●	**335292**
RAL 1011 brown beige, beech	●	**335293**
RAL 8007 fawn brown	●	**335294**
RAL 8017 chocoloate brown	●	**335299**
RAL 9002 grey white	●	**335295**
RAL 7040 window grey	●	**335297**



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**

Cover cap, 5000 pieces, 45°		Art. No.
RAL 9010 pure white	○	**335390**
RAL 1014 ivory, pine	●	**335392**
RAL 1011 brown beige, beech	●	**335393**



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



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



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

Accessories / Spare Parts

P-System



Combination CNC and Zeta P2



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



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

Tenso P



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



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

Divario P



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



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



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



Divario P-18 Starter set	Art. No.
Divario P-18, 80 pairs, Divario installation tool, marking jig plastic	**145550S**



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

Zeta P2



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



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



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



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



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

Batteries



Batteries	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**
Battery pack 18 V, LiHD 5.5 Ah	**313015**
Battery charger ASC 55, plug type C Euro	**123100DE**
Battery charger ASC 55, plug typeG	**123100GB**

* For detailed information, see **PAGE 164/169**

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



Systainer³ M187, with insert and 6 partitions	Art. No.
Systainer³ M187, with insert and 6 partitions	**331579E**
Systainer³ M187, empty	**331579**





	Art. No.
Insert with two partitions for Systainer³ M187	**360024**
Divider for insert 360024	**360019**



Systainer³ M187 plastic insert	Art. No.
For Zeta P2/Top21/Classic X	**360020**



Sortainer	Art. No.
Sortainer incl. dividers RAL 7035 light grey, RAL 3004 purple red	**331581**



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**



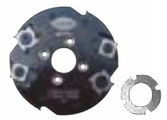
	Art. No.
Z6 alternating teeth, without hub, with spacer for Classic X	**132106**



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), 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**



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

Batteries



Batteries	Art. No.
Battery pack 18 V, LiHD 4.0 Ah	**313013**
Battery pack 18 V, LiHD 5.5 Ah	**313015**
Battery charger ASC 55, plug type C Euro	**123100DE**
Battery charger ASC 55, plug typeG	**123100GB**

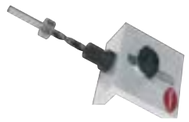
Accessories/ Spare Parts

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	



Clamex S-18 drill jig	Art. No.
Clamex S drill jig 30° – 150°,	**125240**
with 6 mm drill complete	



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-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	



Clamex S-20 drill jig	Art. No.
Incl. drill Ø 6 mm	**125253**



Clamex S-20 Drilling and alignment jig	Art. No.
Clamex S-20 Drilling and alignment jig	**125254**



Torx-Bit	Art. No.
1/4" TX 10 L = 25	**121281**



Clamex wood drill	Art. No.
Ø 6 mm	**131506**



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

Clamping set parts



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



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



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



	Art. No.
Per meter m[1]	**335000**



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



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

Accessories / Spare Parts

Drilling System



Cabineo



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

	Art. No.
Cabineo hex bit 1/4" GL 120 mm	**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 RH carbide tipped (right hand rotation)	**136314**

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

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



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**

Cabineo X



Cabineo 12 screw	Art. No.
500 pieces	**186380**
2000 pieces	**186381**



Cabineo 8 screw	Art. No.
500 pieces	**186382**



Cabineo 8 M6 screw	Art. No.
500 pieces	**186384**



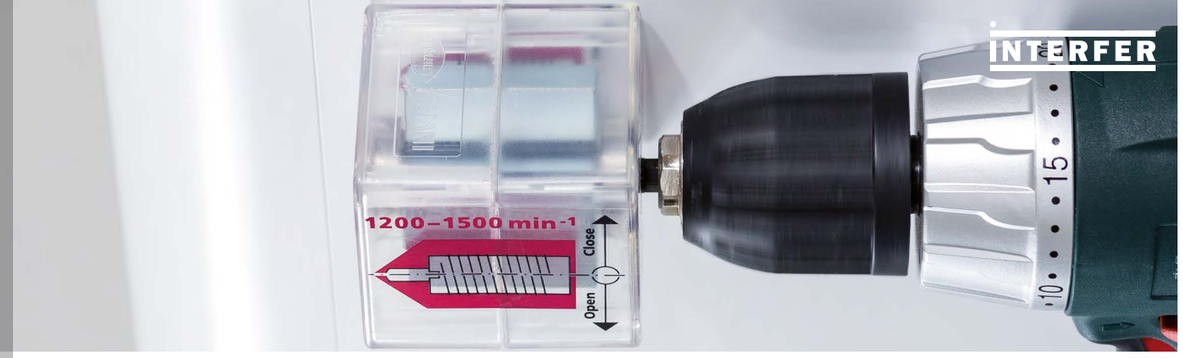
Cabineo X shelf support	Art. No.
Ø 5 mm, 500 pieces	**186386**
Ø 3 mm, 500 pieces	**186388**



Cabineo X screw-in aid	Art. No.
Suitable for Cabineo hexagon bit 1/4" GL 80 mm	**276313**

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 shank	Art. No.
1 piece	**6100204**



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



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

Rasto



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



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



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



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



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



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

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



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

Disclaimer regarding load limits

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

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

Overview of connectors

P-System

			Quantity	Art. No.	Material strength (mm) 1	2	3	4	Product page	Product drawing 1:1
	**Clamex P** Detachable	**Clamex P-14**	80	**145334**	≥ 12	≥ 15	≥ 29	≥ 18	P. 34	P. 66
			300	**145346**						
			1000	**145356**						
		Clamex P-14/10 Medius	80	**145370**		≥ 11	≥ 16		P. 36	P. 66
			300	**145371**						
			1000	**145357**						
		Clamex P-10	80	**145372**			≥ 19	≥ 15	P. 38	P. 66
			300	**145373**						
			1000	**145374**						
		Clamex P-14/10 Flexus	80	**145315**			≥ 16	≥ 18	P. 40	P. 67
			300	**145316**						
			1000	**145317**						
	**Bisco P** Detachable	**Bisco P-14**	80	**145301**	≥ 12	≥ 11*	≥ 21*	≥ 18	P. 46	P. 68
			300	**145302**						
			1000	**145303**						
		Bisco P-10	80	**145304**		≥ 9*	≥ 17*	≥ 15	P. 46	P. 68
			300	**145305**						
	**Tenso P** Glueing	**Tenso P-14**	80	**145415**	≥ 12	≥ 11*	≥ 19*	≥ 18	P. 48	P. 69
			300	**145425**						
			1000	**145435**						
		Tenso P-10	80	**145418**	≥ 12	≥ 9*	≥ 16*	≥ 15	P. 50	P. 69
			300	**145428**						
			1000	**145438**						
	Divario P Sliding insertion	**Divario P-18**	80	**145550**	≥ 12	≥ 11	≥ 18	–	P. 52	P. 69
			300	**145560**						
			1000	**145570**						

Lamello System

	**Original wood biscuit** Glueing	**Original wood biscuit 20**	1000	**144020**	≥ 6	≥ 13	≥ 26	≥ 12	P. 84	P. 110
		Original wood biscuit 10	1000	**144010**		≥ 11	≥ 21	≥ 10	P. 84	P. 110
		Original wood biscuit 0	1000	**144000**		≥ 9	≥ 17	≥ 9	P. 84	P. 110
		Original wood biscuit H9	1000	**144009**	≥ 5	≥ 8	≥ 15	≥ 8	P. 84	P. 111
	**C20/10** Glueing	**C20**	250	**145010**	≥ 6	≥ 13	≥ 26	≥ 13	P. 94	P. 111
		C10	300	**145012**		≥ 11	≥ 21	≥ 10	P. 94	P. 111
	**Clamex S** Detachable	**Clamex S-20**	20	**145243**	≥ 8	≥ 16	≥ 32	≥ 14	P. 88	P. 112
			80	**145244**						
			300	**145245**						
			1000	**145246**						
		Clamex S-18	18	**145231**	≥12	≥ 16	≥ 36	≥ 18	P. 90	P. 112
			80	**145236**						
			300	**145241**						
			1000	**145251**						

* Displacer installation (more information regarding on **PAGE 49/51**)

			Quantity	Art. No.	Material strength (mm) 1	2	3	4	Product page	Product drawing 1:1
	**E20** Inserted	**E20-H**	80	**145021**	≥ 8	–	–	≥ 14	P. 86	P. 113
			400	**145026**						
			1200	**145028**						
		E20-L	80	**145022**	≥ 8	–	–	≥ 25	P. 86	P. 113
			400	**145025**						
			1200	**145027**						
	**K20** Inserted	**K20**	80	**145001**	≥ 8	≥ 14	≥ 25	≥ 14	P. 92	P. 113
			250	**145000**						

Drilling System

	**Cabineo** Detachable	**Cabineo 12**	500	**186320**	≥ 12	≥ 13	≥ 24	–	P. 128	P. 148
			2000	**186321**						
		Cabineo 12 black	500	**186330**					P. 128	P. 148
			2000	**186331**						
		Cabineo 8	500	**186310**	≥ 12	≥ 9	≥ 16	–	P. 130	P. 148
			2000	**186311**						
		Cabineo 8 black	500	**186340**					P. 130	P. 148
			2000	**186341**						
		Cabineo 8 M6	500	**186315**	≥ 12	≥ 9	≥ 16	–	P. 132	P. 148
			2000	**186316**						
		Cabineo 8 M6 black	500	**186345**					P. 132	P. 148
			2000	**186346**						
		Insert Cabineo M6 × 12.3	100	**186370**	≥ 14	≥ 14	14-16	–	P. 134	P. 149
			500	**186371**						
		Insert Cabineo M6 × 15.3 for centre panels	100	**186375**	≥ 14	≥ 17	17-25		P. 134	P. 149
			500	**186376**						
	**Cabineo X** Detachable	**Cabineo X**	500	**186360**	≥ 12	≥ 9	≥ 24	–	P. 136	P. 148
			2000	**186361**						
		Cabineo X black	500	**186365**					P. 136	P. 148
			2000	**186366**						
		Cabineo 12 screw	500	**186380**	–	≥ 13	≥ 24	–	P. 136	–
			2000	**186381**					P. 136	–
		Cabineo 8 screw	500	**186382**	–	≥ 9	≥ 16	–	P. 136	–
		Cabineo 8 M6 screw	500	**186384**	–	≥ 9	≥ 16	–	P. 136	–
		Cabineo X shelf support, Ø 5 mm	500	**186386**	–	≥ 9	≥ 16	–	P. 136	–
		Cabineo X shelf support, Ø 3 mm	500	**186388**	–	≥ 9	≥ 16	–	P. 136	–
	**Invis Mx2** Detachable	**Invis Mx2 connector set** with 14 mm stud	20	**6012300**	≥ 18	≥ 15	–	–	P. 142	S. 150
		Invis Mx2 connector set with 30 mm stud	20	**6012301**		≥ 33	–	–	P. 142	P. 150
		Invis Mx2 connector 35 mm	20	**6012317**		–	–	–	P. 144	–
		Invis Mx2 stud 14 mm	20	**6012312**		≥ 15	–	–	P. 144	P. 150
		Invis Mx2 stud 30 mm	20	**6012309**		≥ 33	–	–	P. 144	P. 150
		Invis Mx2 centre wall stud 10 – 30 mm	10	**6012208**		–	10-30	–	P. 144	P. 151

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INTERFER



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