

Lamello

Catalogue

2022/2023

english



*Connects.
Inspires.*

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


Susanne Affolter, Managing Director and Owner at Lamello AG




Content




Lamello	6 – 19
Systems, P-System, Lamello System, Drilling System – Overview	20 – 21

	
P-System	22 – 65
The time-saving joining system with form-locking anchoring	


P-System – Overview	24 – 25
P-System – Applications	28 – 31
Clamex P-14 – Detachable furniture connector	32 – 33
Clamex P-14/10 Medius – Detachable connector for centre panels for materials from 16 mm thickness	34 – 35
Clamex P-10 – Detachable connector for materials from 12 mm thickness	36 – 37
Clamex P-14/10 Flexus – Detachable furniture connector with flexible positioning pins	38 – 39
Clamex P-14 CNC – Detachable furniture connector with precise alignment	40 – 41
Advantages of the Clamex P – Detachable furniture connector	42
Bisco P – Aligning element, suitable for the P-System groove	44 – 45
Tenso P-14 – Self-clamping connector for glueing materials from 16 mm thickness	46 – 47
Tenso P-10 – Self-clamping connector for glueing thin materials from 12 mm thickness	48 – 49
Divario P-18 – Self-clamping, invisible connector for slide insertion	50 – 51
Zeta P2 – The machine for the evolving P-System, saving you time daily! Differentiate your products from the standard!	52 – 53
Accessories – Zeta P2	54
Connected in seconds ...	55
Without waiting time, clamps, or secondary processes, glued and clamped in 40 seconds	
Technical information	58 – 61
Accessories/Spare Parts – P-System	62 – 65

	
Lamello System	66 – 107
The original for efficient, intuitive and precise joints	

Lamello System – Overview	68 – 69
Lamello System – Applications	72 – 75
Original wood biscuit – The original wooden biscuit that always fits	76 – 77
E20 – The self-clamping element	78 – 79
Clamex S-18 – Detachable, flexible and simple. Installation in an 8 mm groove with screws	80 – 81
K20 – The clamping element, which holds the workpiece in position	82 – 83
C20/C10 – The transparent element	84 – 85
Simplex – Detachable slide-in connector	86 – 87
Minicol – The all purpose glue applicator	88 – 89
Clamping set – Clamping system for cabinets	90 – 91
Classic X – The original biscuit joiner for every workshop	92 – 93
Top 21 – The original biscuit joiner with height adjustable blade from the inventor	94 – 95
Accessories – Classic X and Top 21	96 – 97
Original Lamello biscuit joiners – These properties make the difference	98
Versatile use ...	99
With various connecting elements	
Technical information	100 – 103
Accessories/Spare Parts – Lamello System	104 – 107

	
Drilling System	108 – 141
Unique drilling systems for high demands on productivity and aesthetics	

Drilling System – Cabineo, Invis Mx2 – Overview	110 – 111
Drilling System – Applications	114 – 117
Cabineo 12 – Time-saving cabinet connector for corner joints from 13 mm	118 – 119
Cabineo 8 – Time-saving cabinet connector for centre panels from 16 mm	120 – 121
Cabineo 8 M6 – Wear-resistant cabinet connector for various materials and increased strength	122 – 123
Cabineo insert M6 – For repeated assembly and disassembly without loss of strength	124 – 125
Advantages of Cabineo – Simple, fast and strong	126
Cabineo compared with cam and dowel	127
Invis Mx2 – Magnet-driven connecting fittings	128 – 131
Rasto drill jig – Universal drill jig without measuring or marking	132 – 133
Technical information	134 – 137
Accessories/Spare Parts – Drilling System	138 – 141

	
Networked production	142 – 165
From planning and design to procurement, programming and machining with CNC.	

Components for the successful integration of Lamello connection systems into your networked production	145
Networked production – Overview of the production process	146 – 147
Service overview – Lamello's planning and machining partners	148 – 151
P-System with CNC – Joining methods and requirements for CNC machines/machining options	152 – 155
P-System equipment options – For CNC machines for particularly efficient machining	156 – 157
Ideas for standardising – The machining on a CNC machine	158
Cabineo with CNC – Specific equipment options for CNC machines for Cabineo	160 – 161
CNC tools – For the P-System	162 – 163
CNC tools – For Cabineo	164

Accessories	166 – 183
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Accessories/Spare Parts – P-System	168 – 171
Accessories/Spare Parts – Lamello System	172 – 175
Accessories/Spare Parts – Drilling System	176 – 179
Overview of connectors	180 – 183
Disclaimer regarding load limits	183

Subject to modifications and amendments

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*Together,
dynamic
and reliable*



*Far-reaching.
Close to home.*



At home right
across the globe.

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



Headquarter:
– Switzerland

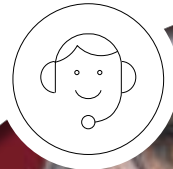
Subsidiaries:
– Belgium/France/Netherlands
– Germany
– Italy
– Austria

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

We are here for you!

Personal consultation

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



Latest news

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



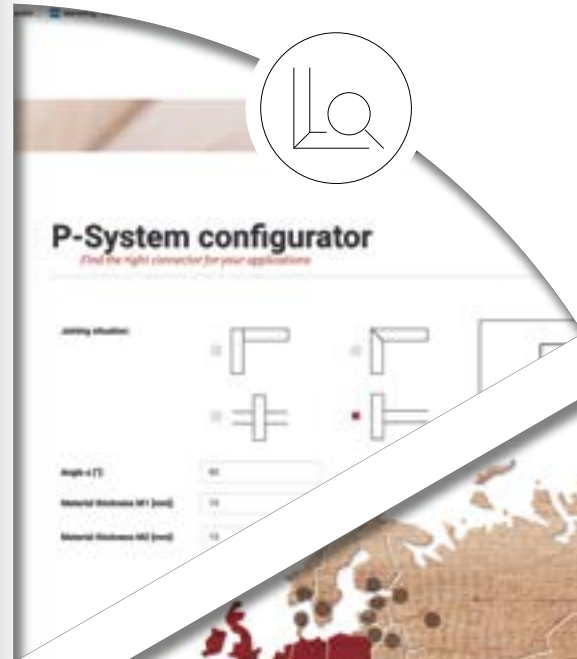
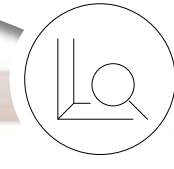
Our services

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



Support in your planning

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



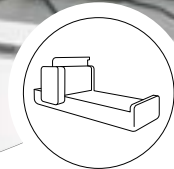
Qualified sales partners

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



Competent planning and machining partners

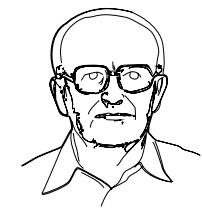
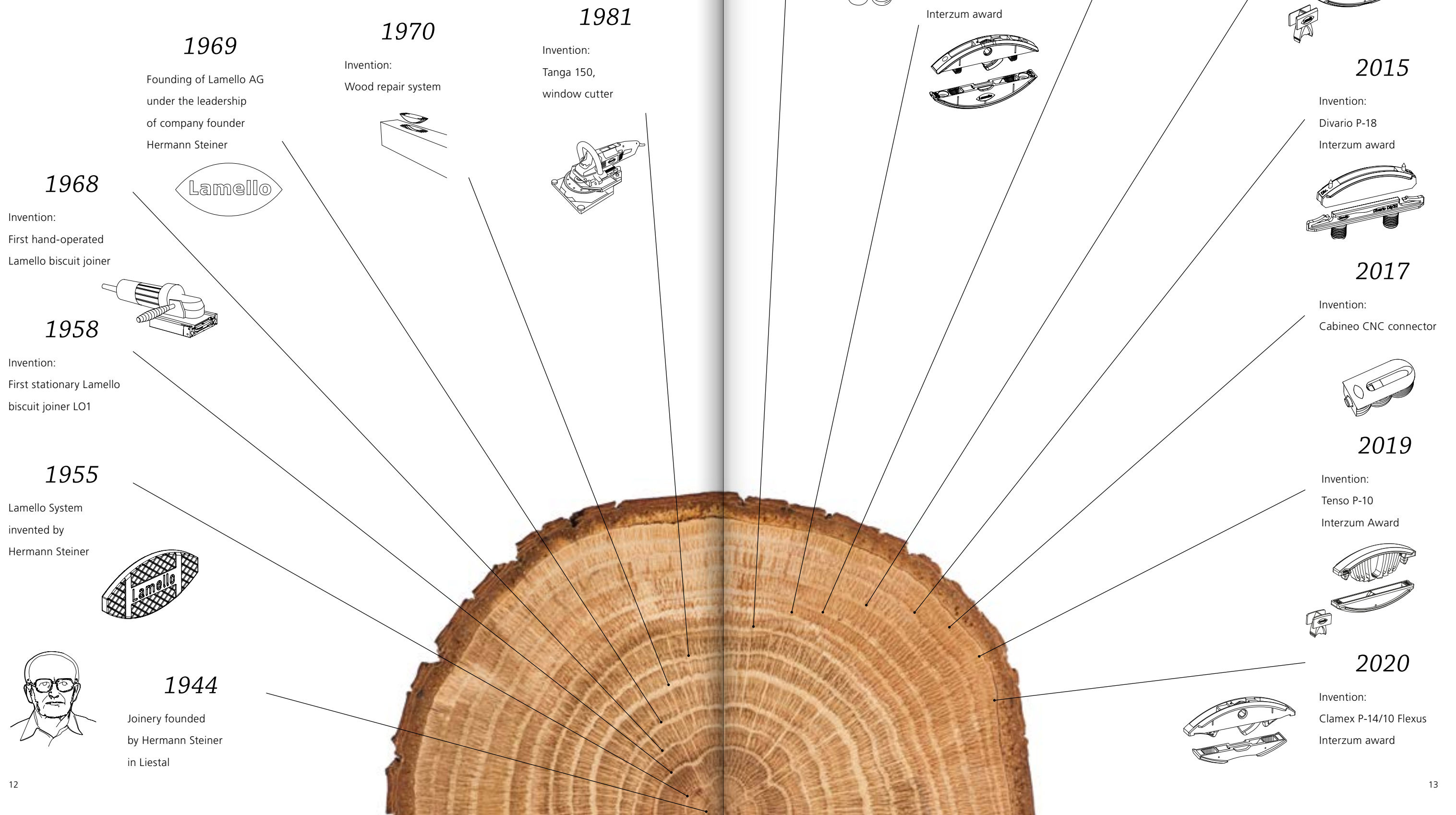
From planning and design to the right milling tool and machining with the CNC machine: more than 40 industry-leading partner companies support the efficient use and integration of our products into your production.



Looking back. Thinking ahead.

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

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

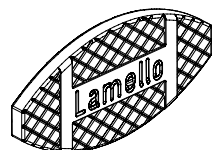


1944

Joinery founded by Hermann Steiner in Liestal

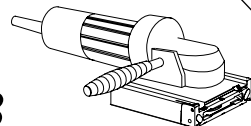
1955

Lamello System invented by Hermann Steiner



1958

Invention: First stationary Lamello biscuit joiner LO1



1968

Invention: First hand-operated Lamello biscuit joiner

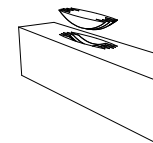


1969

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

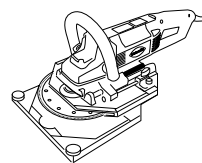
1970

Invention: Wood repair system



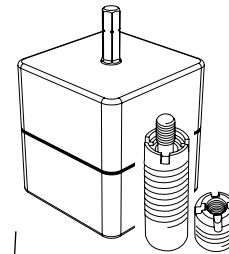
1981

Invention: Tanga 150, window cutter



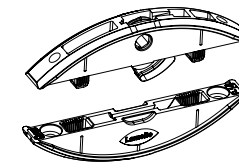
2001

Invention: Invis Interzum award



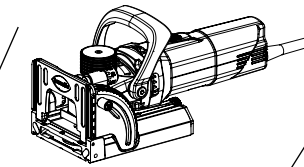
2009

Invention: Clamex P Interzum award



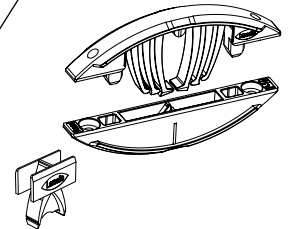
2010

Invention: Zeta, power tool for the P-System



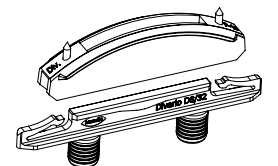
2013

Invention: Tenso P-14 Interzum award



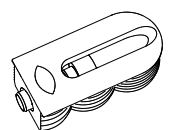
2015

Invention: Divario P-18 Interzum award



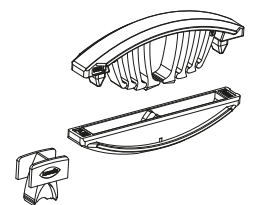
2017

Invention: Cabineo CNC connector



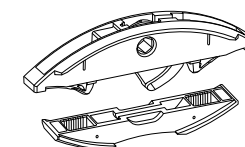
2019

Invention: Tenso P-10 Interzum Award



2020

Invention: Clamex P-14/10 Flexus Interzum award



In the centre: the customer

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

Nils Ingwersen

Process Planning Manager
Carpentry Mario Beck, Hamburg, Germany

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

Roger Schneider

Site Manager, Tschudin AG, Münchenstein, Switzerland

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

Hannes Kofler

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

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

Jeffrey De Smet

Self-employed carpenter, Artisanal interior furniture maker, Belgium

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

Andreas Kuhlmann

Managing Director, Adolf Kuhlmann furnishing workshops, Schwerin, Germany

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

John Hampton

Production Manager, Artichoke, Somerset, England

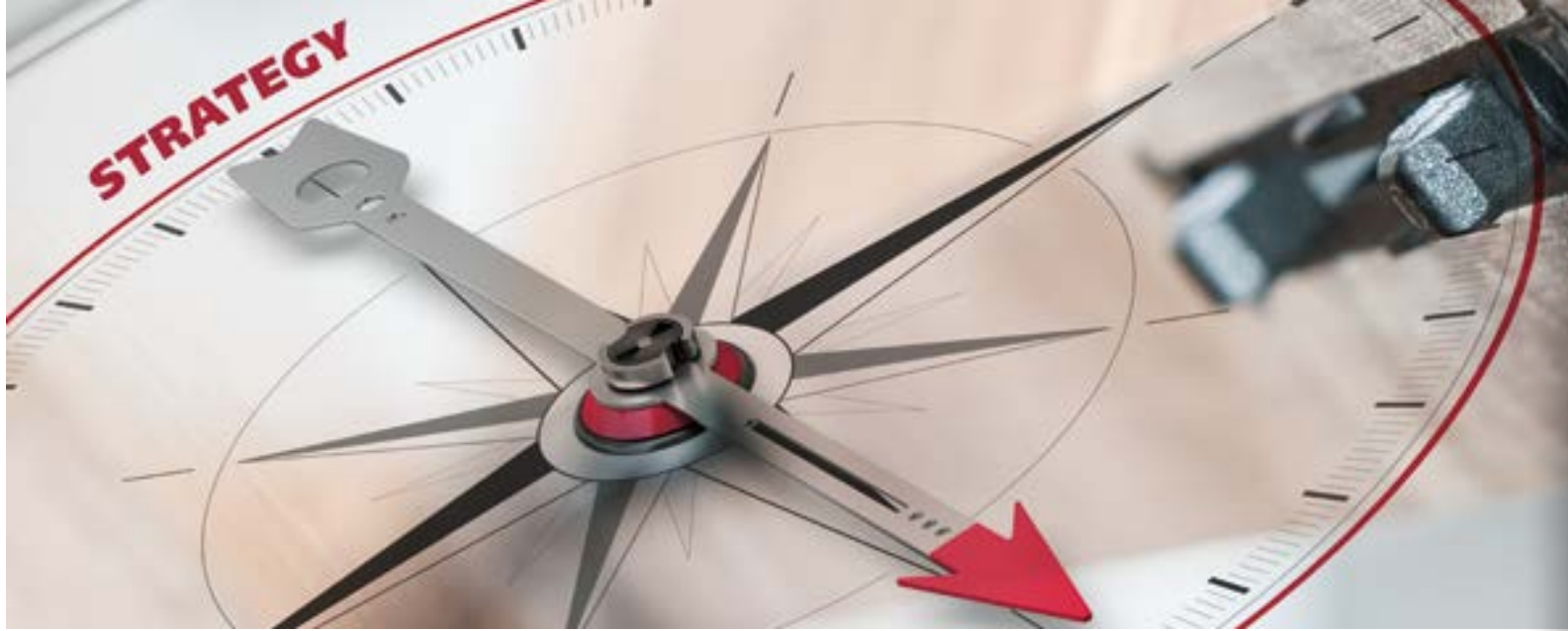
«Artichoke's pursuit of enhanced quality and improved efficiency has led it to the door of Swiss fixings specialist, Lamello.»

Günther Schweiger

Speedmaster Managing Director, Eberstälzell, Austria

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





Joining technology with 3 systems



P-System

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

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



Lamello System

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



Drilling System

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

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

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

Our strengths



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.

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.



Inventive & imaginative

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



First-class & flawless

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



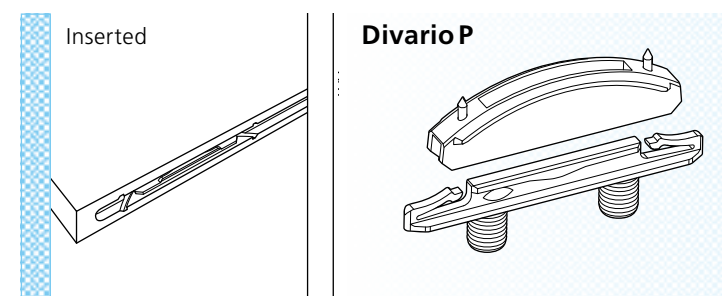
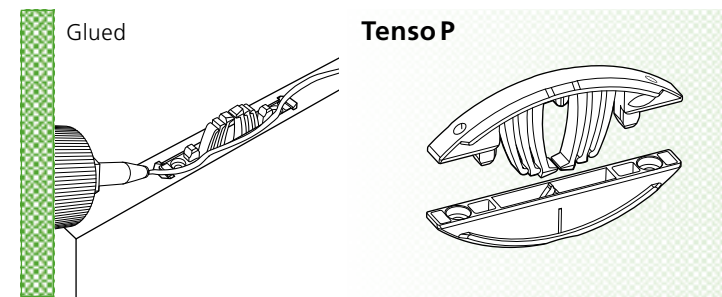
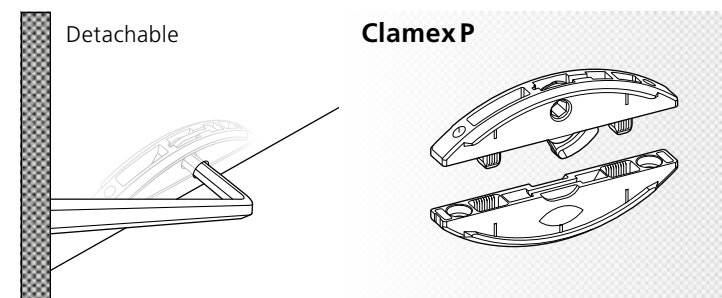
Systems

- P-System
- Lamello System
- Drilling System

Overview

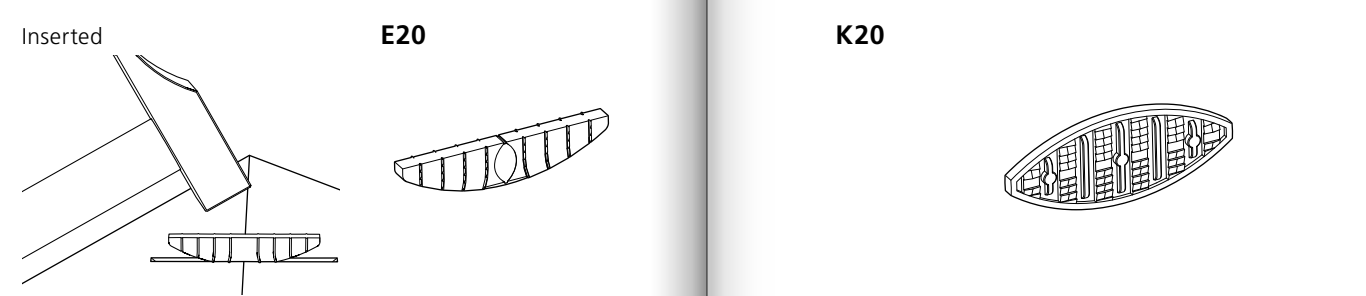
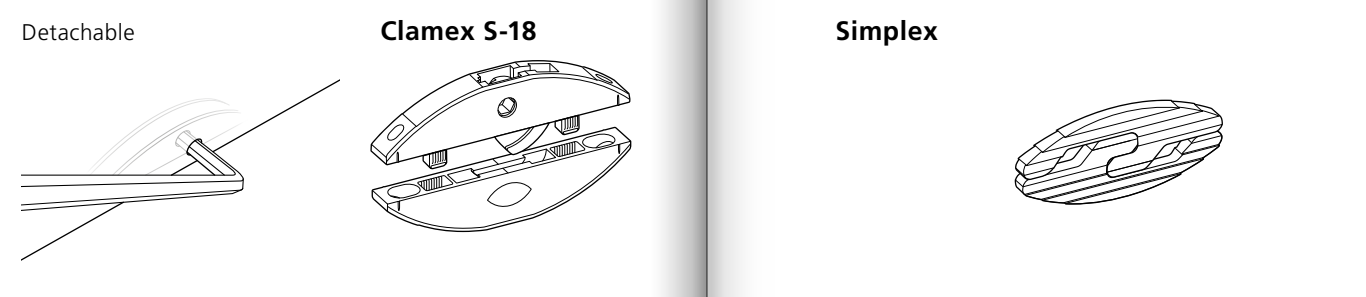
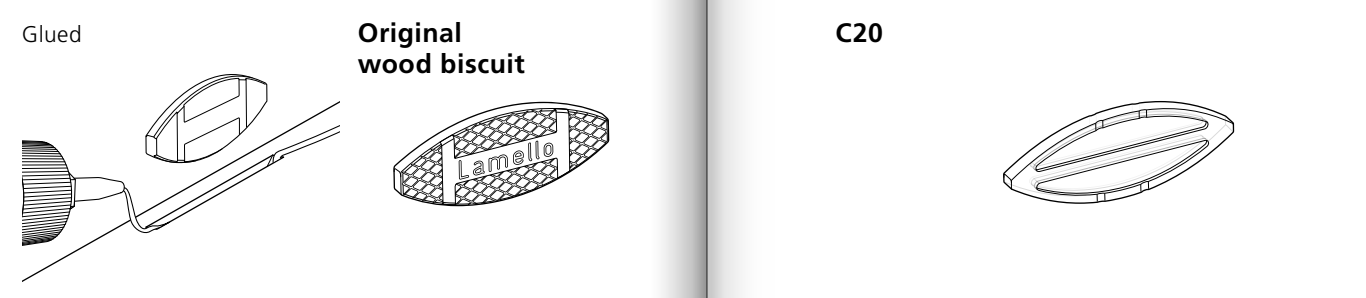
P-System	
Joining methods	Connector

With P-System groove cutter

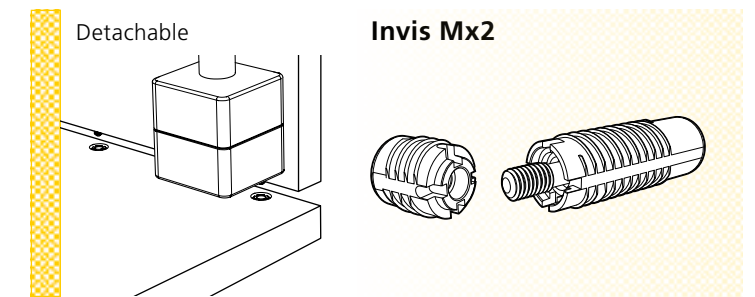
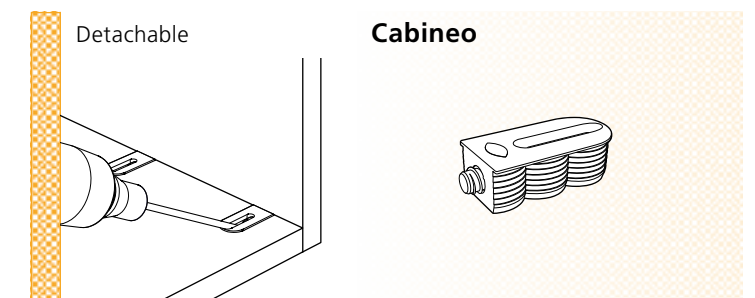


Lamello System	
Joining methods	Connector

With 4 mm Lamello System groove cutter



Drilling System	
Joining methods	Connector

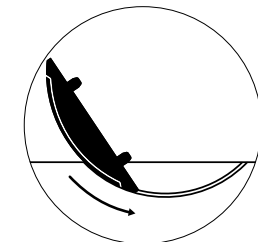


P-System

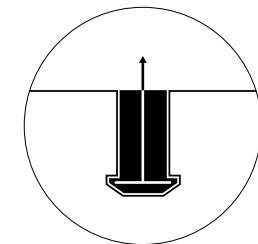
The time-saving joining system
with form-locking anchoring



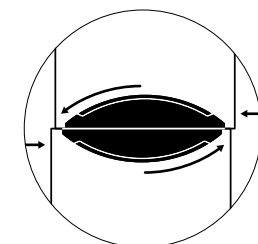
Features



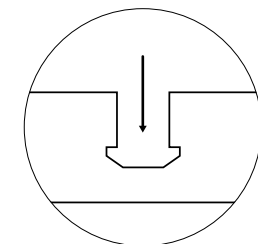
Fast installation
Inserting instead of
screwing or glueing



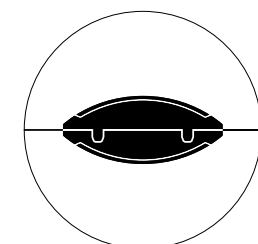
Strong
Form-locking
anchorage across
large surface areas



Lateral tolerance
Perfect, flush
alignment of both
workpieces



Shallow depth
Minimal cutting
depth with maximum
tensile strength

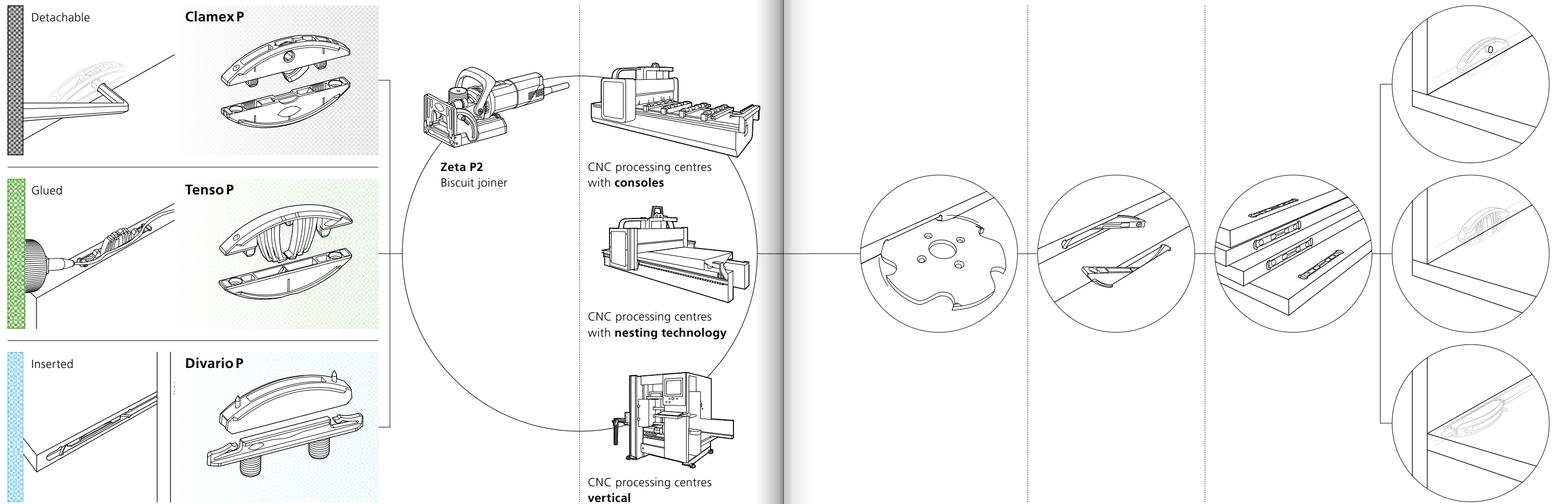


No twisting
The positioning
pins prevent
twisting without
additional dowels

P-System

Overview

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



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

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



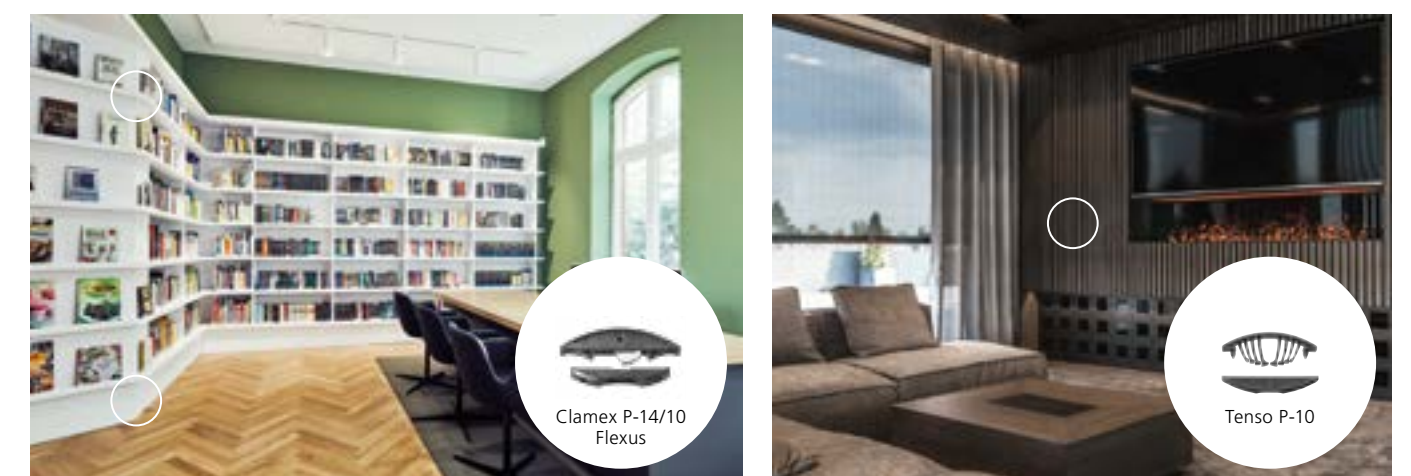
P-System

Applications

Furniture manufacturing



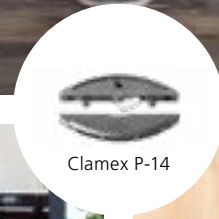
Interior fitting



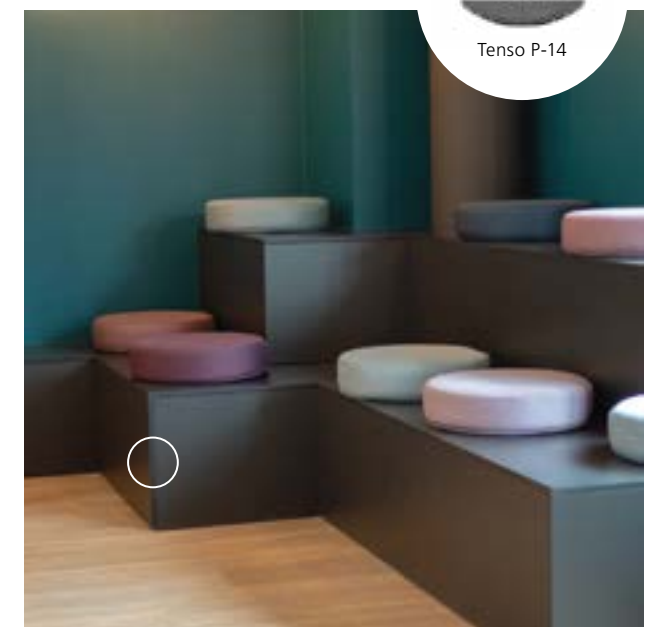
P-System

Applications

Kitchen manufacturing



Commercial joinery



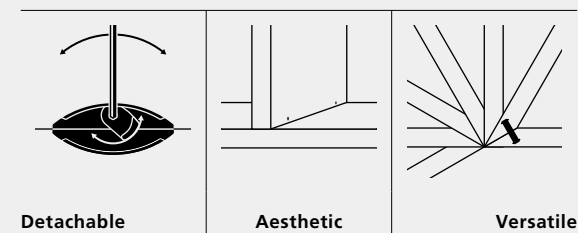
Shop fitting

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.

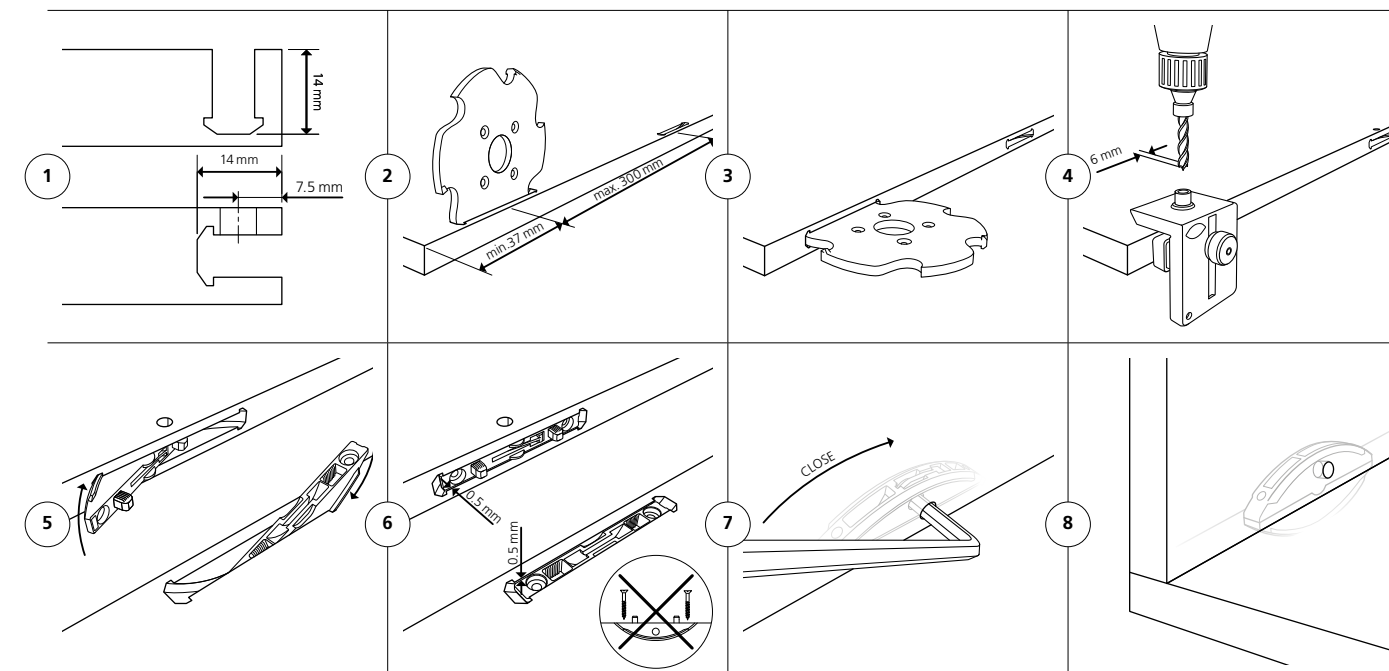
Clamex P-14 eliminates the need for glue, allows aesthetic joints at all angles and is ideal for permanently joined or detachable mitres. Clamex P-14 is used on mitre joints from 18 mm material thickness and in butt joints from 15 mm.

Articles



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

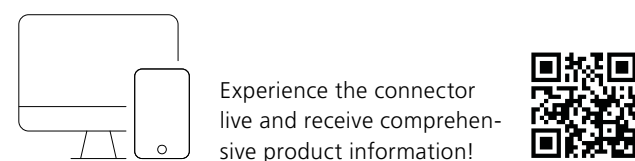
Function



Technical data

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

www.lamello

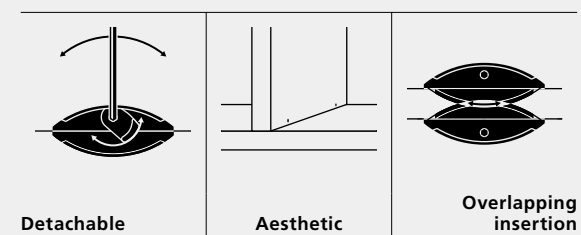


Clamex P-14/10 Medius

Detachable connector for centre panels for materials from 16 mm thickness



Features



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

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

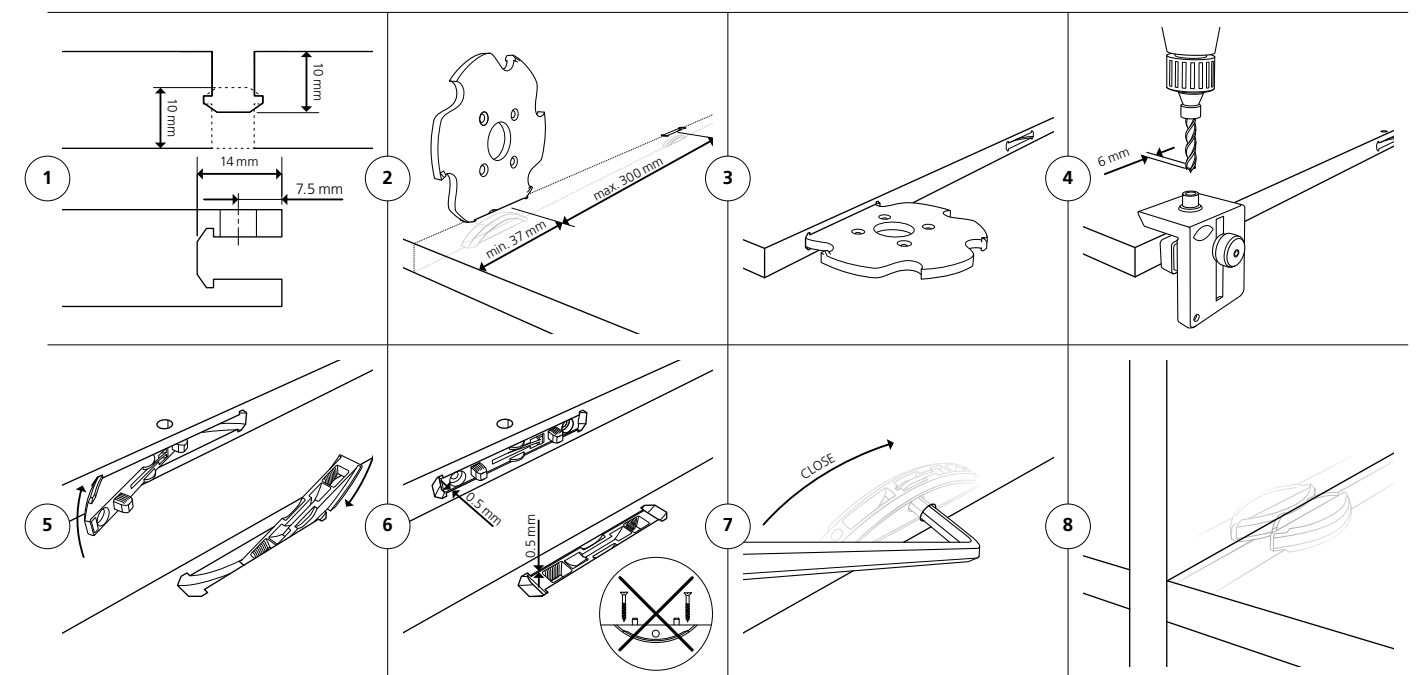
The connector for divisions has two installation depths and is used when two shelves are attached to the same dividing panel at the same height. Due to the reduced installation depth of 10 mm, the minimal thickness for the division is 16 mm.

Articles



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

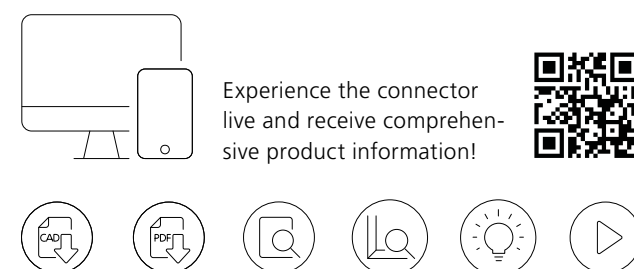
Function



Technical data

Joining methods	Size	Tensile strength (N)		
	64 × 13.5 × 9.7 mm 52 × 7.5 × 9.7 mm	MDF	Particle board	Beech
	Cutter	800 ¹	600 ¹	900 ¹
	Material connector	Fiberglass reinforced plastic		
	Material of lever	Zinc die cast		
	Installation tolerance	Long. ± 1 mm/radial ± 1 mm		
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.		

www.lamello



Experience the connector live and receive comprehensive product information!

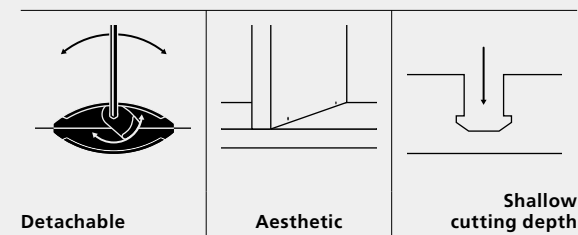


Clamex P-10

Detachable connector for materials from 12 mm thickness



Features



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

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

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

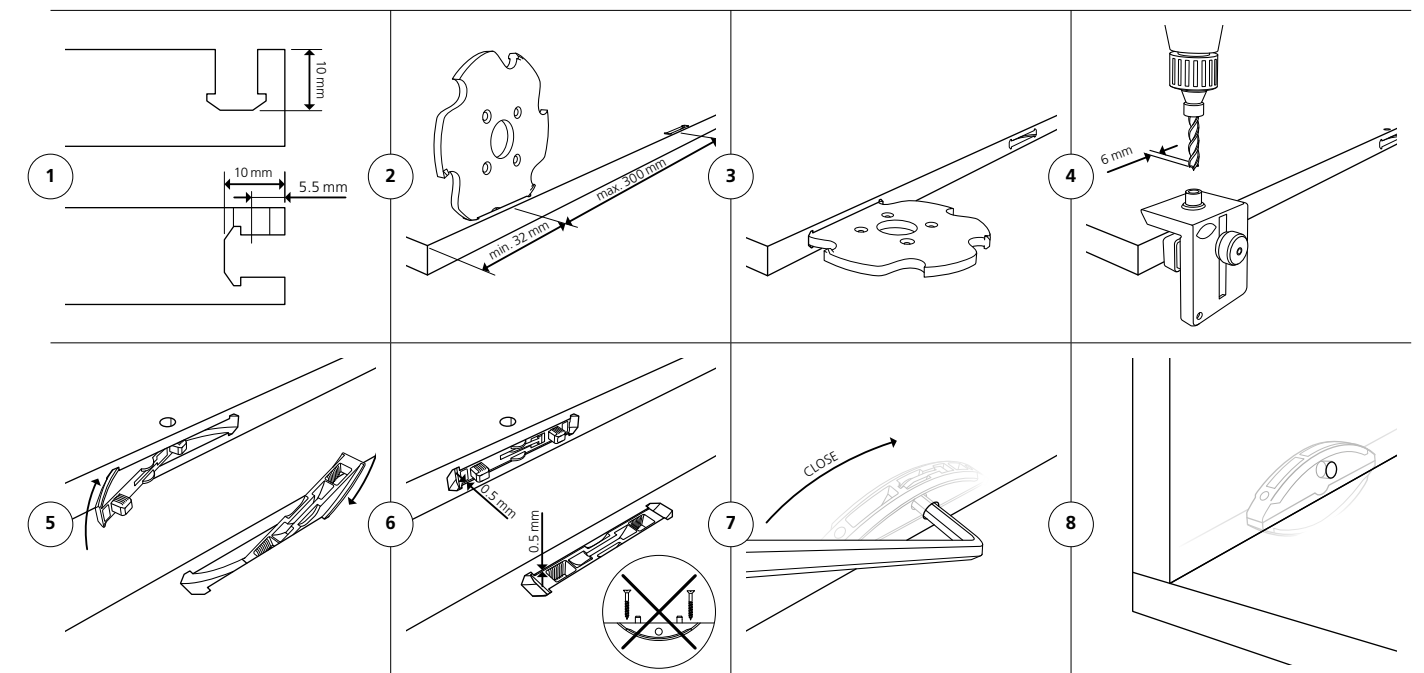
Clamex P-10 is used on mitre joints from 15 mm material thickness and in butt joints from 12 mm.

Articles

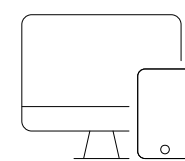


Clamex P-10	Art. No.
80 pairs	145372
300 pairs	145373
1000 pairs	145374
2000 pieces element without lever	145358

Function



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Experience the connector live and receive comprehensive product information!



Technical data

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

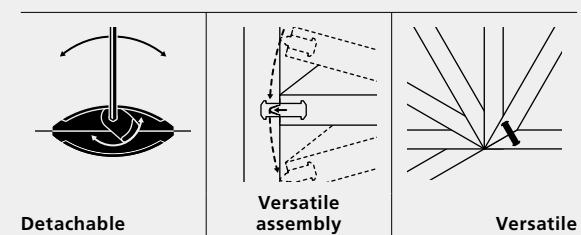
See PAGE 58 for technical specifications | ¹ See comment on load limits on PAGE 183

Clamex P-14/10 Flexus

Detachable furniture connector with flexible positioning pins



Features



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

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

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

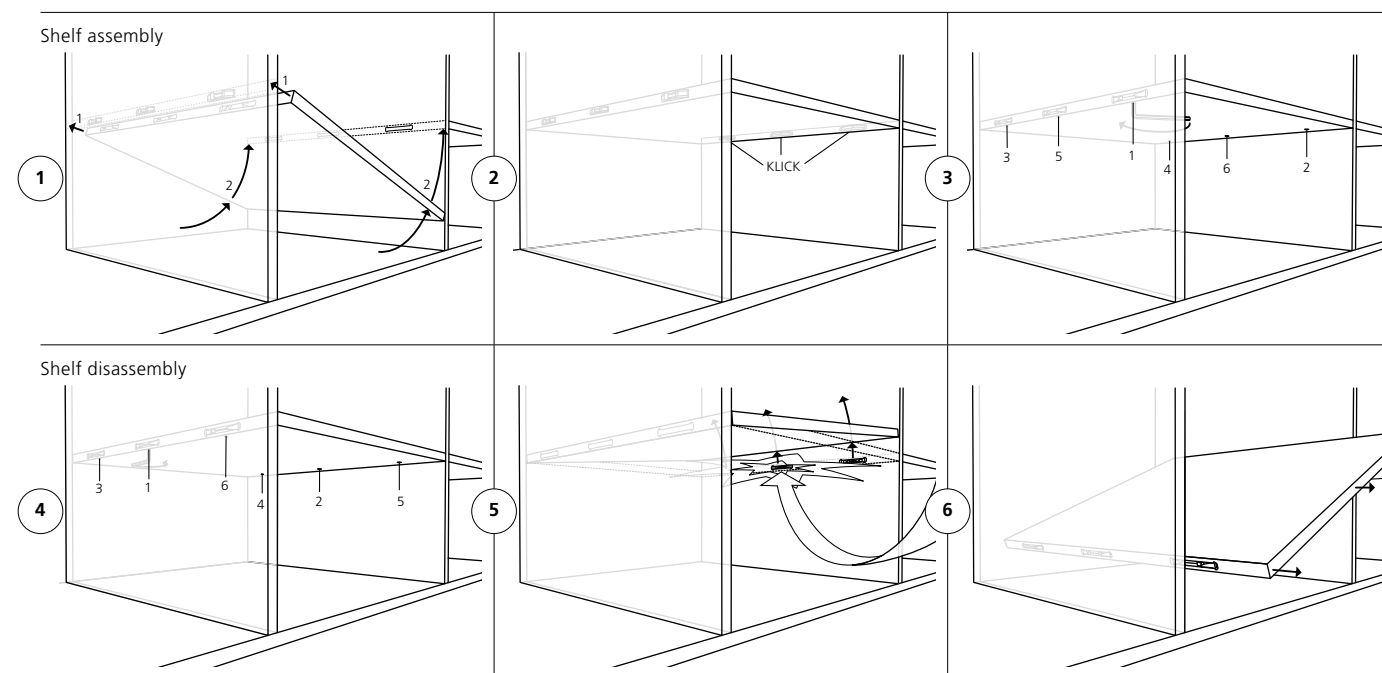
Clamex P-14 is used in mitre joints from 18 mm material thickness and in butt joints from 12 mm.

Articles



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

Function



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Experience the connector live and receive comprehensive product information!

Technical data

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

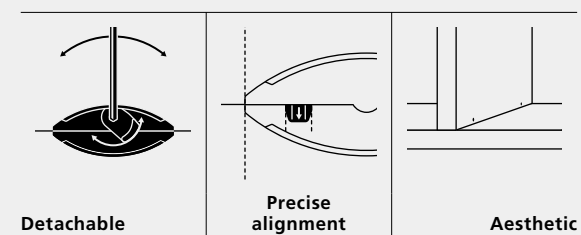
See PAGE 59 for technical specifications | ¹ See comment on load limits on PAGE 183

Clamex P-14 CNC

Detachable furniture connector with precise alignment



Features







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

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



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

Articles

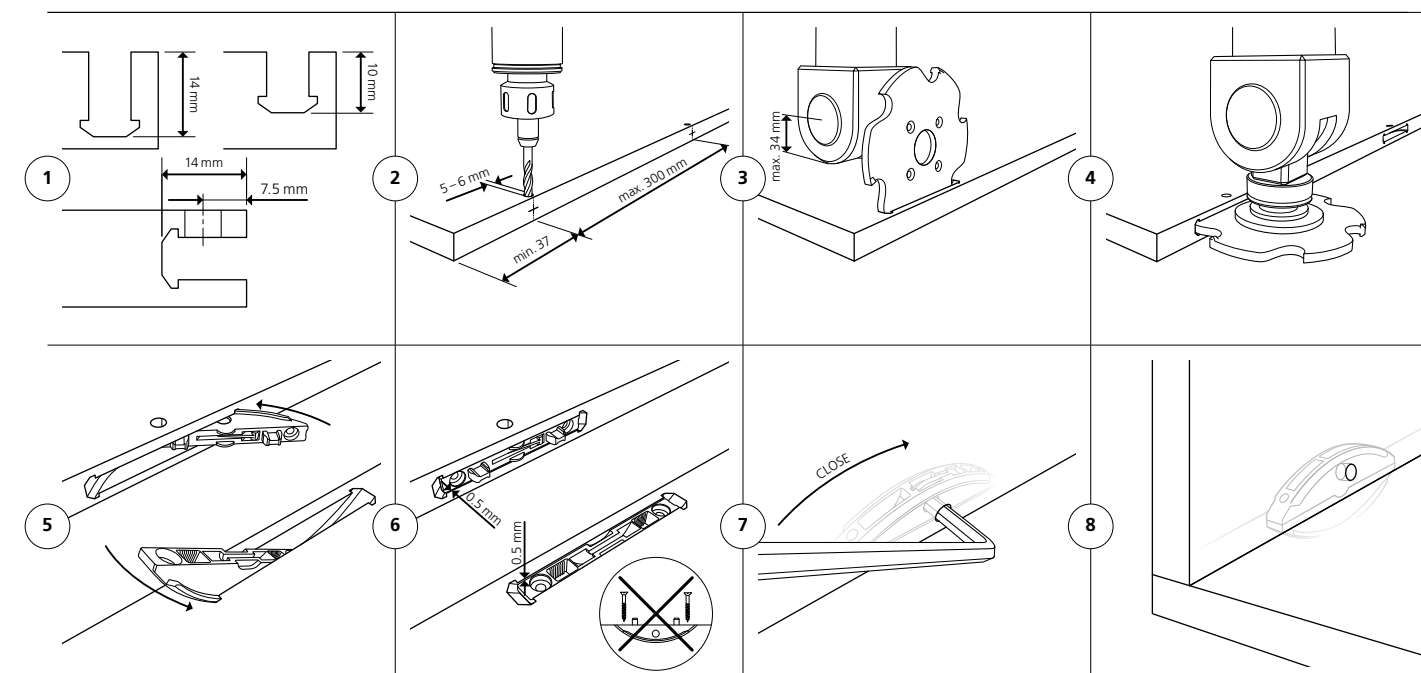
	Clamex P-14 CNC	Art. No.
	2000 pieces element with lever	145388
	Clamex P-14	Art. No.
	2000 pieces element without lever	145339
	Clamex P-10	Art. No.
	2000 pieces element without lever	145358
	Clamex P-10 Medius	Art. No.
	2000 pieces element without lever	145369

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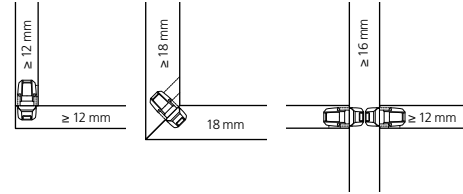
Experience the connector live and receive comprehensive product information!

Function



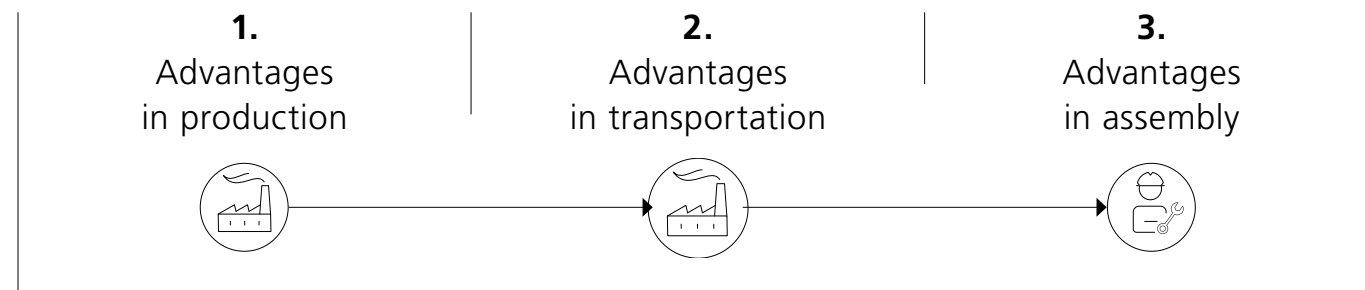
Technical data

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

* See PAGE 59 for technical specifications

Advantages of the Clamex P

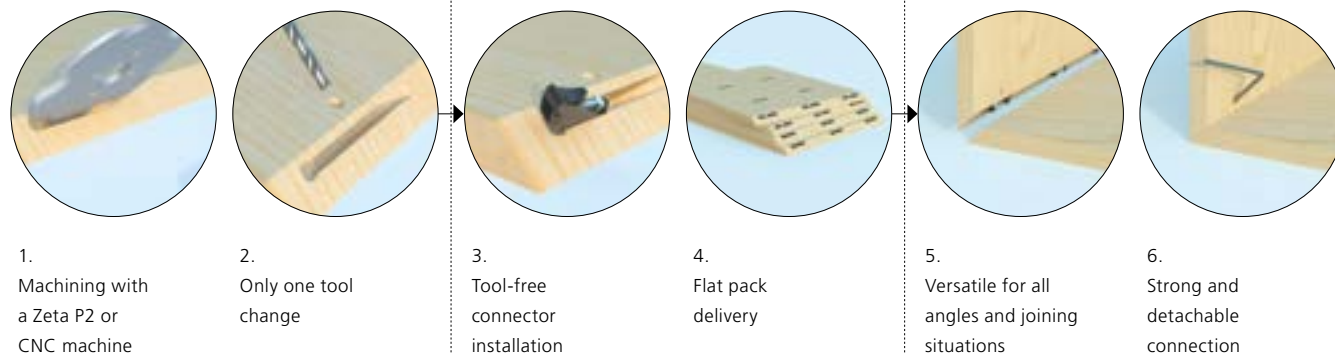
Detachable furniture connector



- 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



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

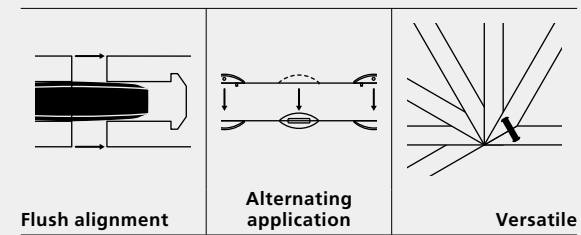
Markus Fust, Managing Director,
Fust Schreinerei AG, Wil, Switzerland



Bisco P

Aligning element, suitable for the P-System groove


Features




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

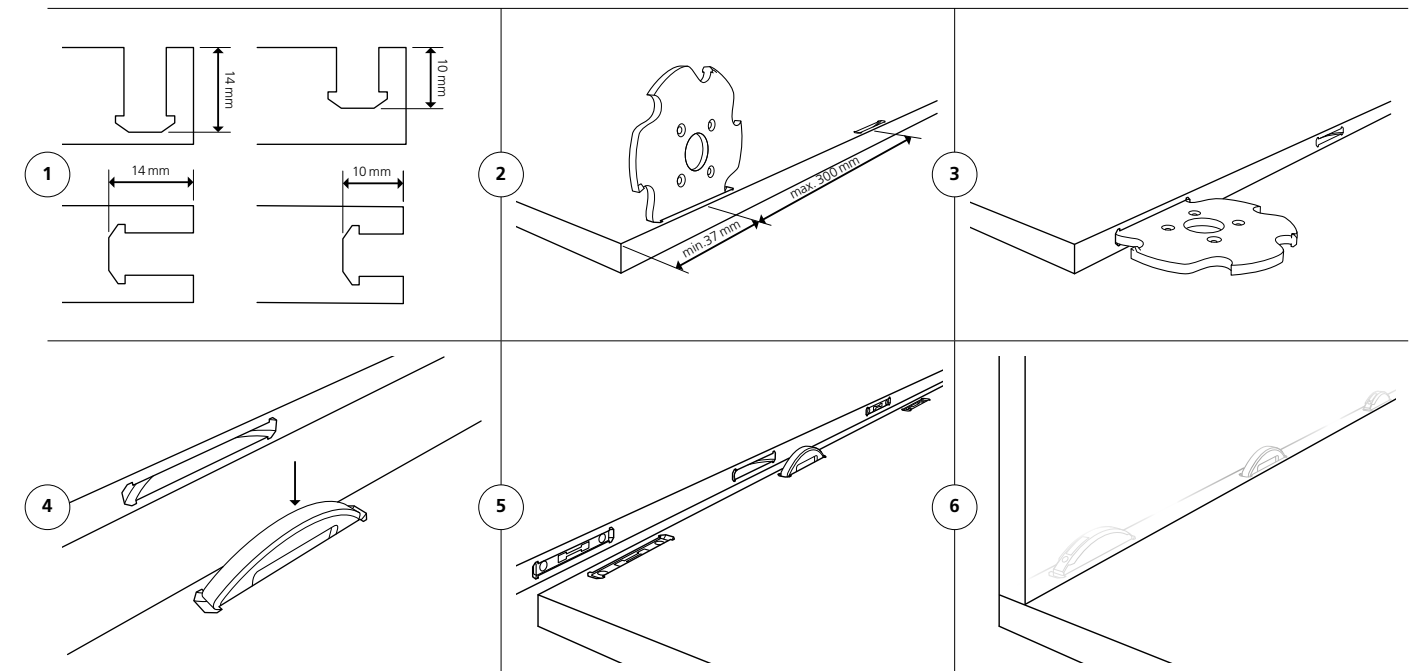
Bisco P-14 is used in combination with Clamex P-14 or Tenso P-14; and Bisco P-10 with the same connectors in size P-10.

Artikel

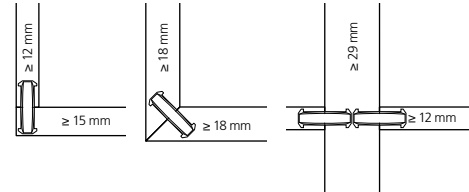
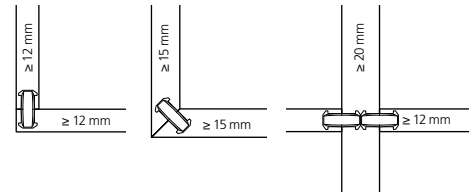
	Art. No.
Bisco P-14	
80 pieces	145301
300 pieces	145302
1000 pieces	145303

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

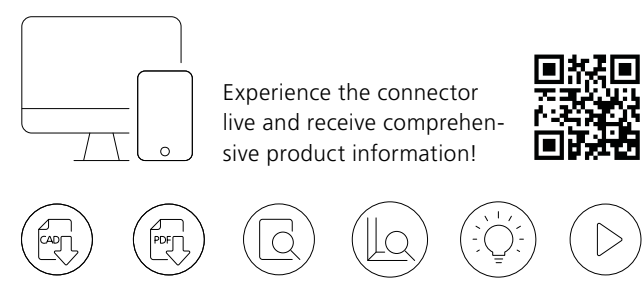
Function



Technical data

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

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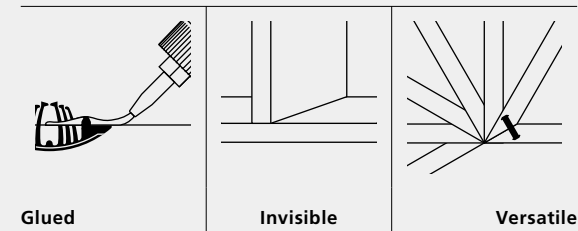


Tenso P-14

Self-clamping connector for glueing materials from 16 mm thickness



Features



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

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

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

Articles



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

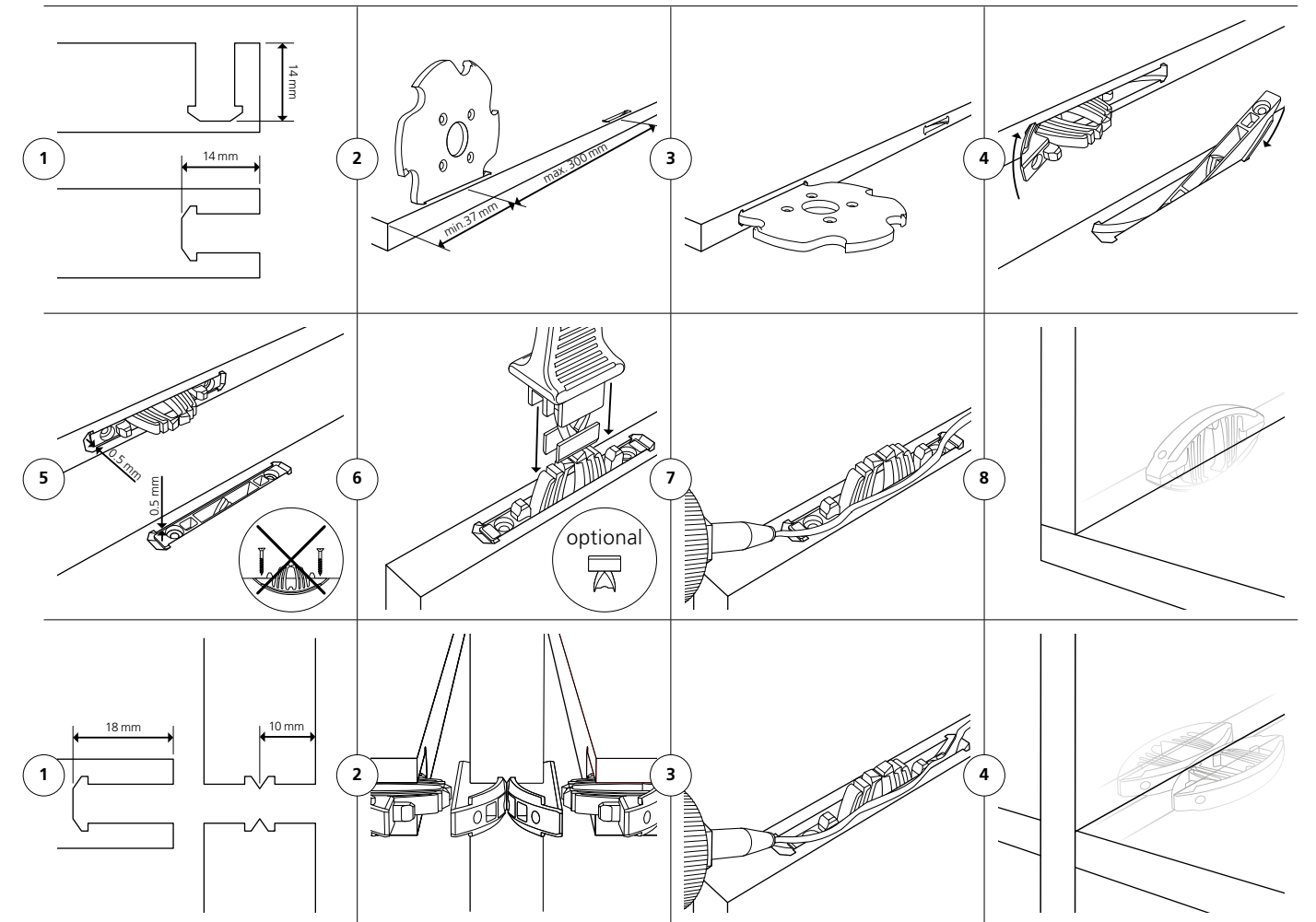


Tenso P-14 preload clip	Art. No.
300 pieces	145426
1000 pieces	145436

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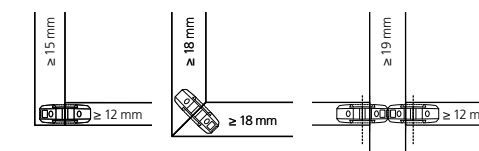
Experience the connector live and receive comprehensive product information!

Function



Technical data

Joining methods



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

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

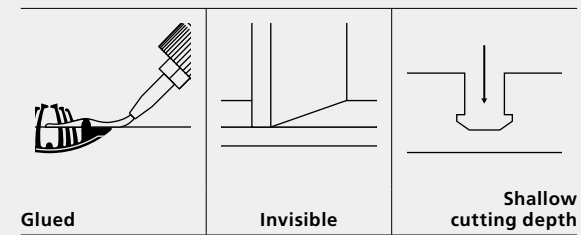
See PAGE 61 for technical specifications

Tenso P-10

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



Features

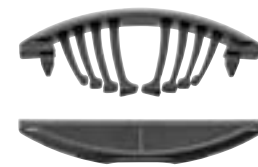


Tenso P-10 is a self-clamping connector to glue and is anchored in the form-locking P-System groove within seconds.

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

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

Articles

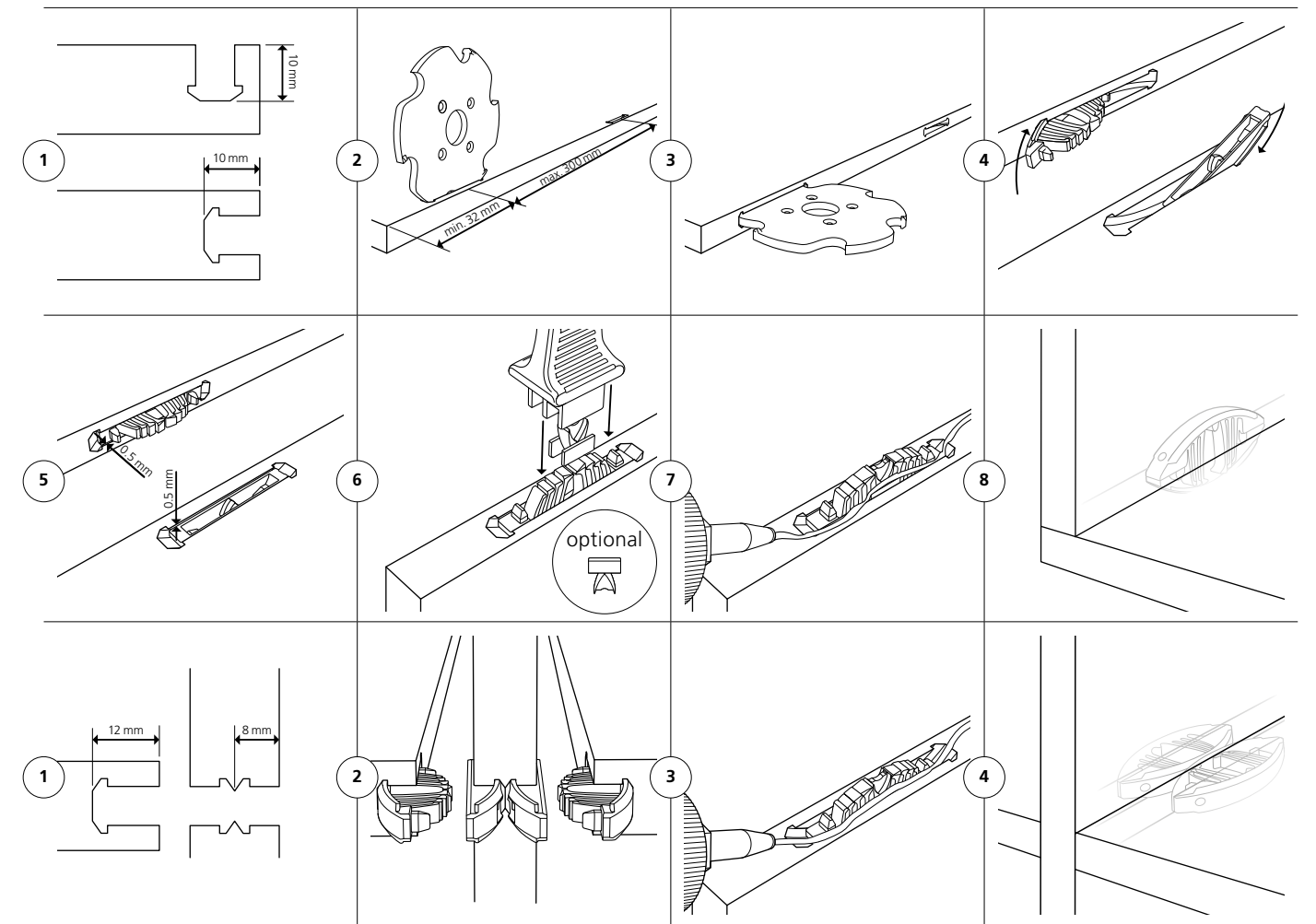


Tenso P-10	Art. No.
80 pairs, with preload clip	145418
300 pairs, with preload clip	145428
1000 pairs, with preload clip	145438
2000 pieces element with spring	145442
2000 Spieces element without spring	145443

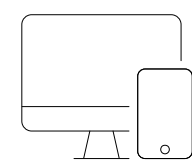


Tenso P-10 preload clip	Art. No.
2000 pieces	145445

Function



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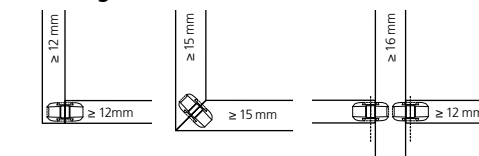


Experience the connector live and receive comprehensive product information!



Technical data

Joining methods



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

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

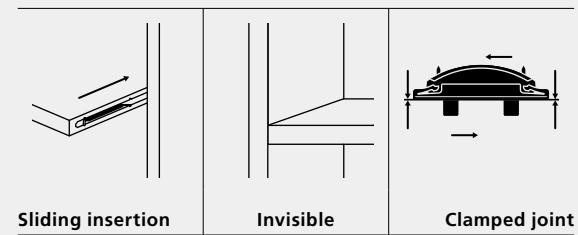
See **PAGE 61** for technical specifications

Divario P-18

Self-clamping, invisible connector for slide insertion



Features



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

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

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

Articles

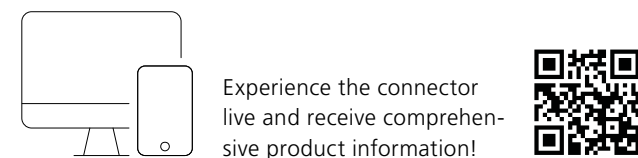


Divario P-18	Art. No.
80 pairs	145550
300 pairs	145560
1000 pairs	145570
2000 pieces, element for P-System groove	145520
2000 pieces, element for drill holes	145540

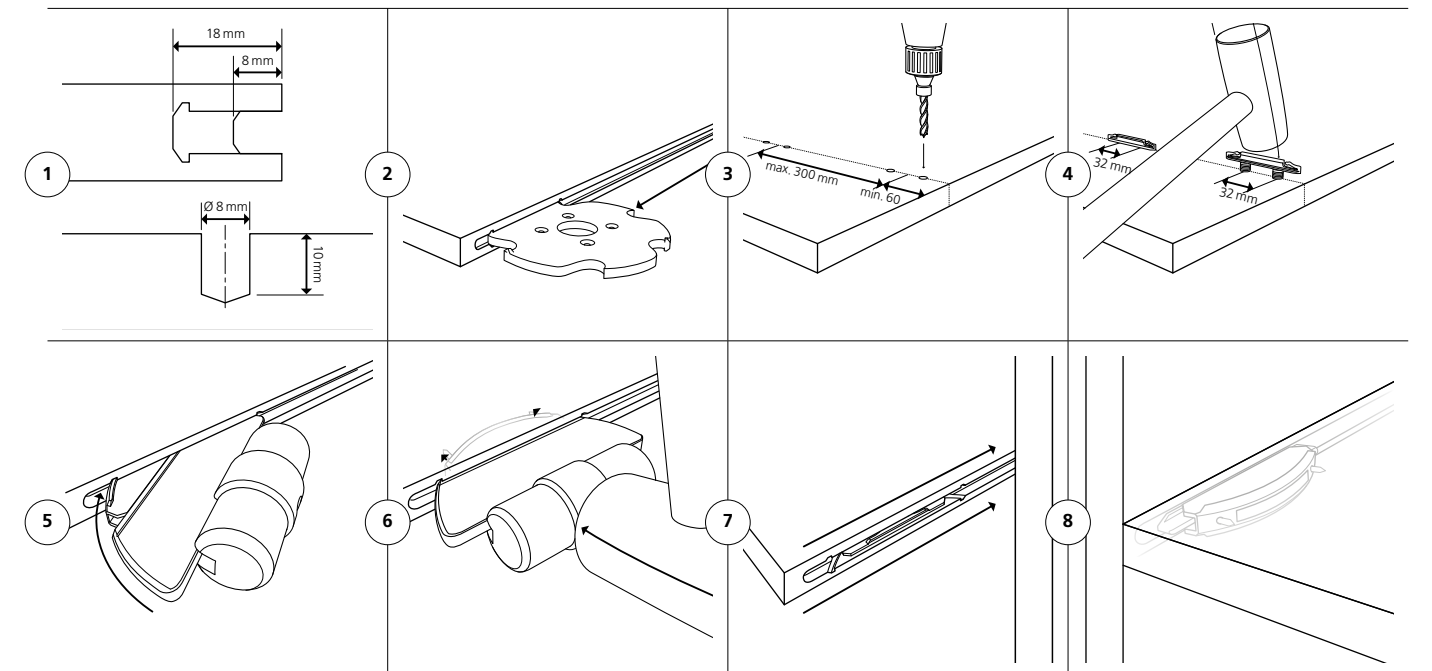


Divario P-18 Installation tool	Art. No.
For fixing the Divario in the workpiece	125500

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Function



Technical data

Joining methods	Element with P-System groove	65 x 16 x 9.7 mm
	Element with drill holes	Ø8 x 10 mm, distance 32 mm
	Cutter	Ø100.4 x 7 x Ø22 mm
	Material connector	Fiberglass reinforced plastic
	Installation tolerance	Long. ± 1 mm/radial ± 0 mm
	Load limits per connector (N)	(mm) 19 22 25 30
	Up to	MDF 600 ¹ 700 ¹ 800 ¹ 1000 ¹
		Particle board 500 ¹ 600 ¹ 700 ¹ 1000 ¹
		Beech 1700 ¹ 2000 ¹ 2000 ¹ 2000 ¹
		Spruce 800 ¹ 900 ¹ 1300 ¹ 1400 ¹
	Tensile strength (N)	All materials 600 ¹
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.

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

Zeta P2

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



Features

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

Articles



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

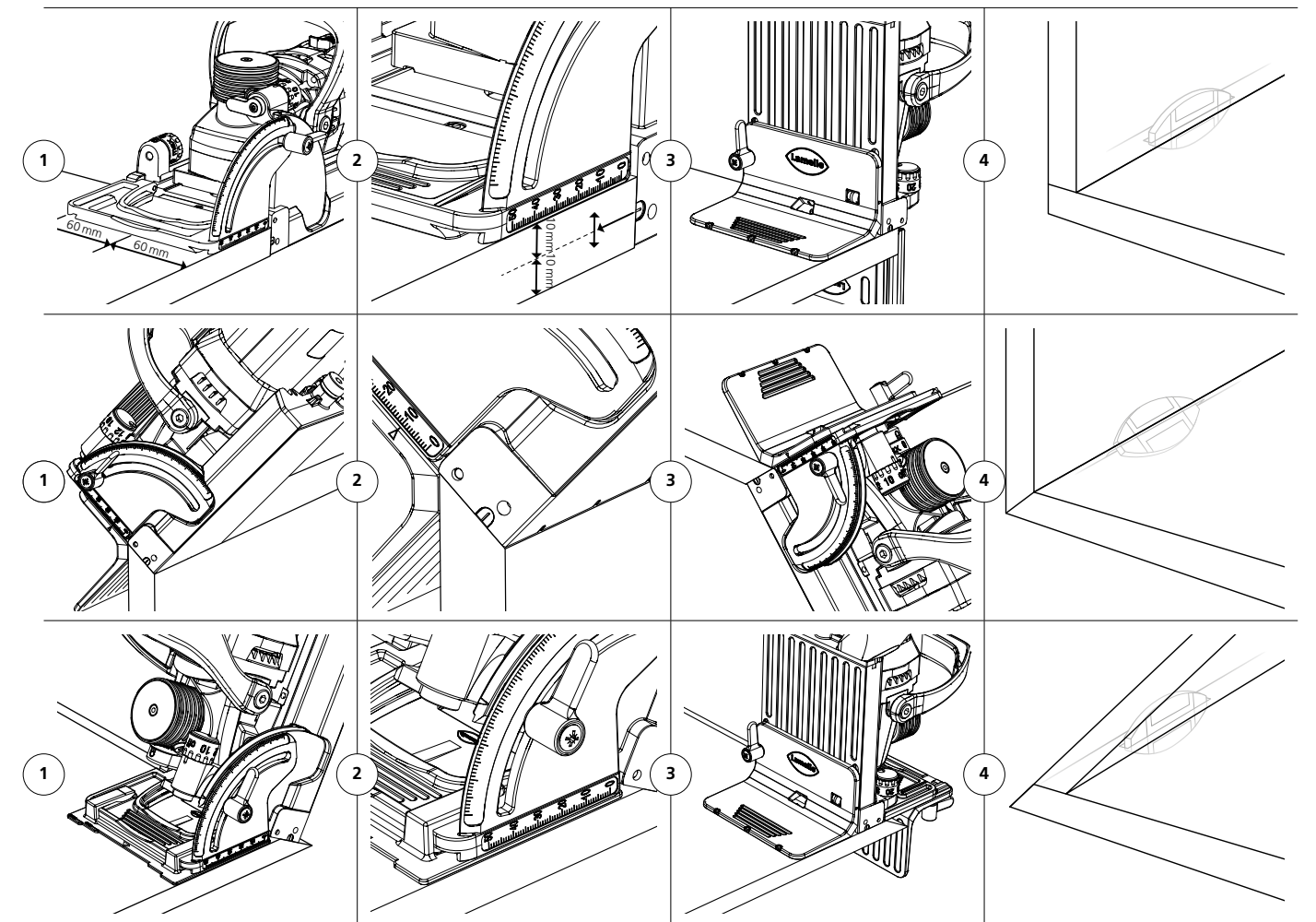


Kit contains
Zeta P2, P-System groove cutter, stop square, suction stub 23 + 36 mm, disc for angles, spacer 2 + 4 mm, tools, Clamex P drill jig incl. drill

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Experience Zeta P2 live and receive comprehensive product information!

Function



Technical data

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

Accessories

Zeta P2

Accessories



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



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



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



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



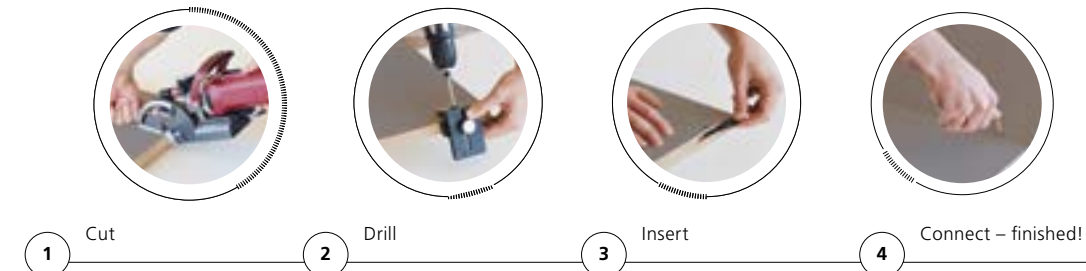
Groove cutter HW (carbide), Art. No. **132000**
Ø 100 × 4 × Ø 22 mm
Z2 + V4 scoring teeth, 4 screw holes, hub
for Zeta P2/Top 21/Classic X

Connected in seconds ...

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

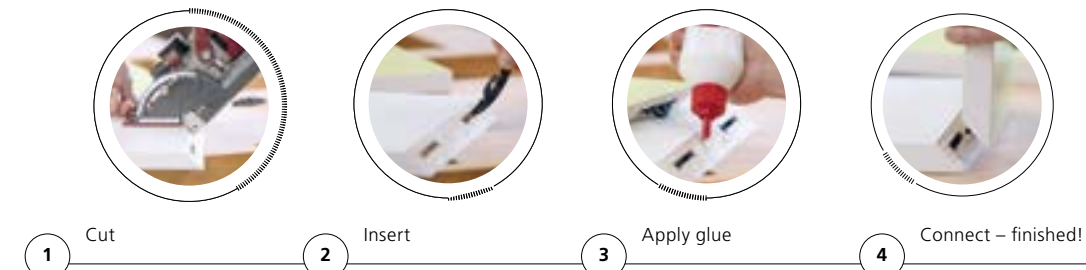
Advantage

... with Clamex P – detachable



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

... with Tenso P – glued



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

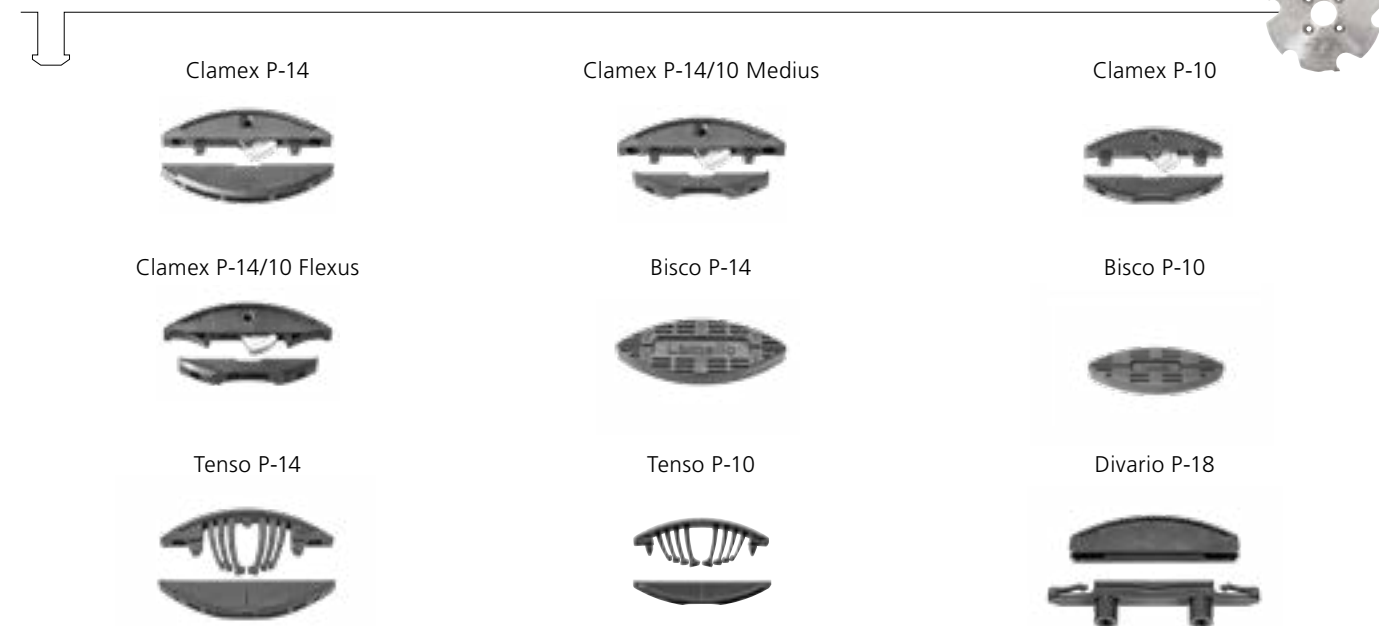


Versatile use with many different connecting elements.

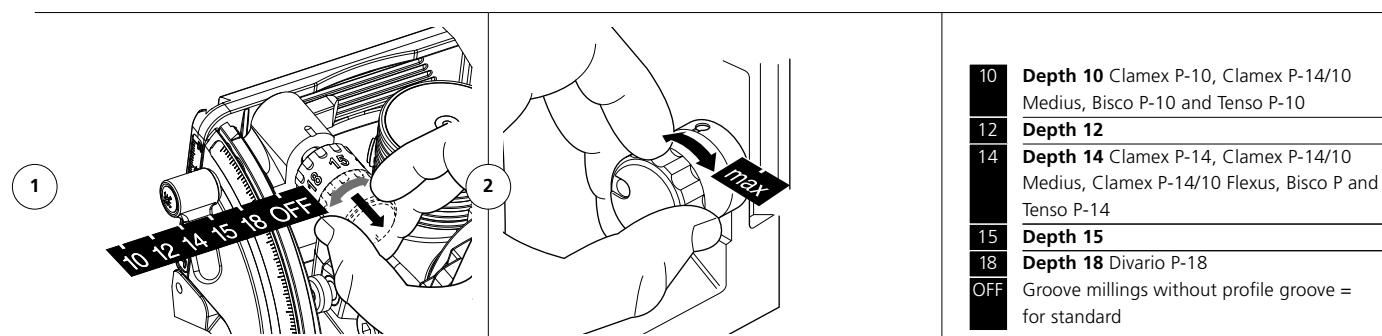
With the Zeta P2, you can quickly and easily connect parts with a range of angles and joining situations. Suitable for individual pieces of furniture as well as prototypes and line production.



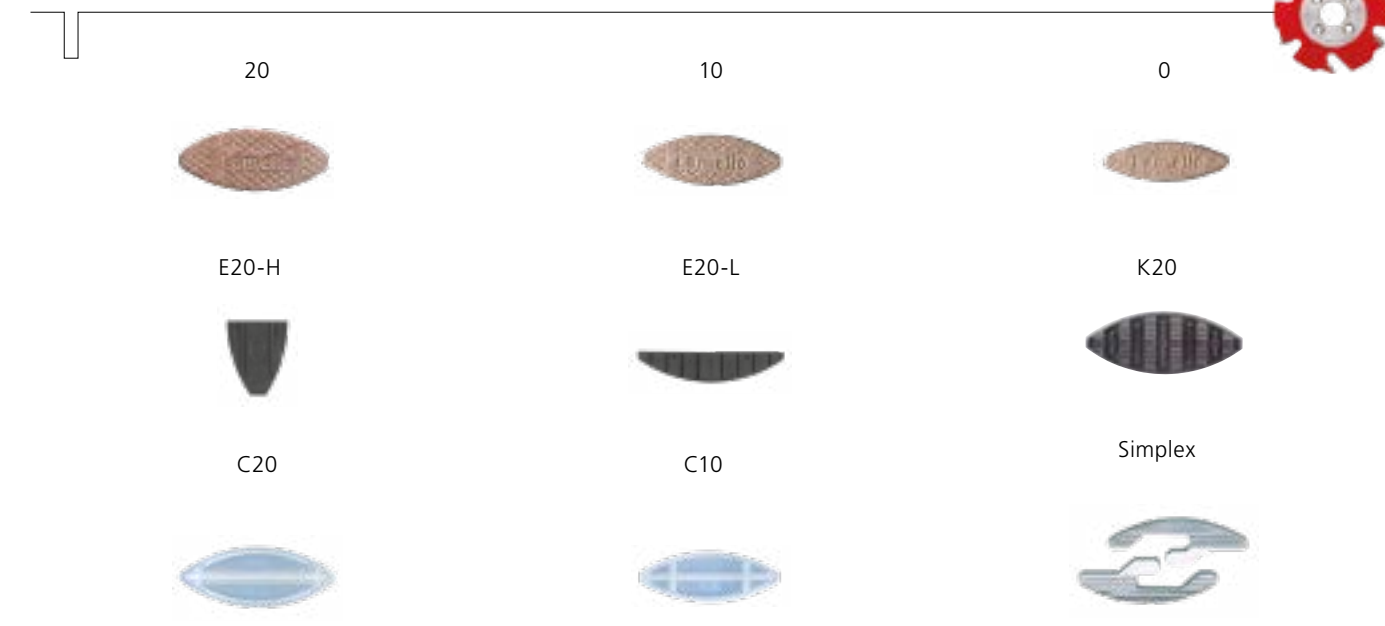
With P-System groove



P-System depth adjustment



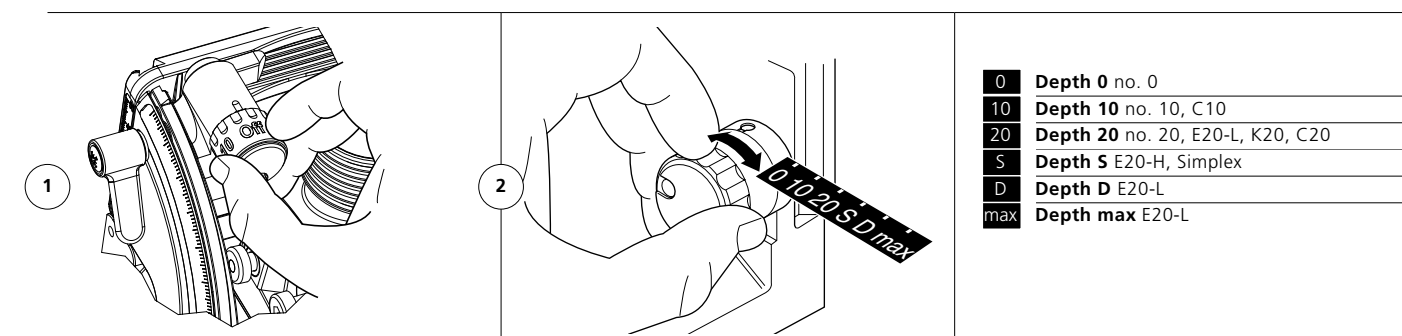
With 4 mm Lamello System groove cutter



With 3 mm Lamello System groove cutter

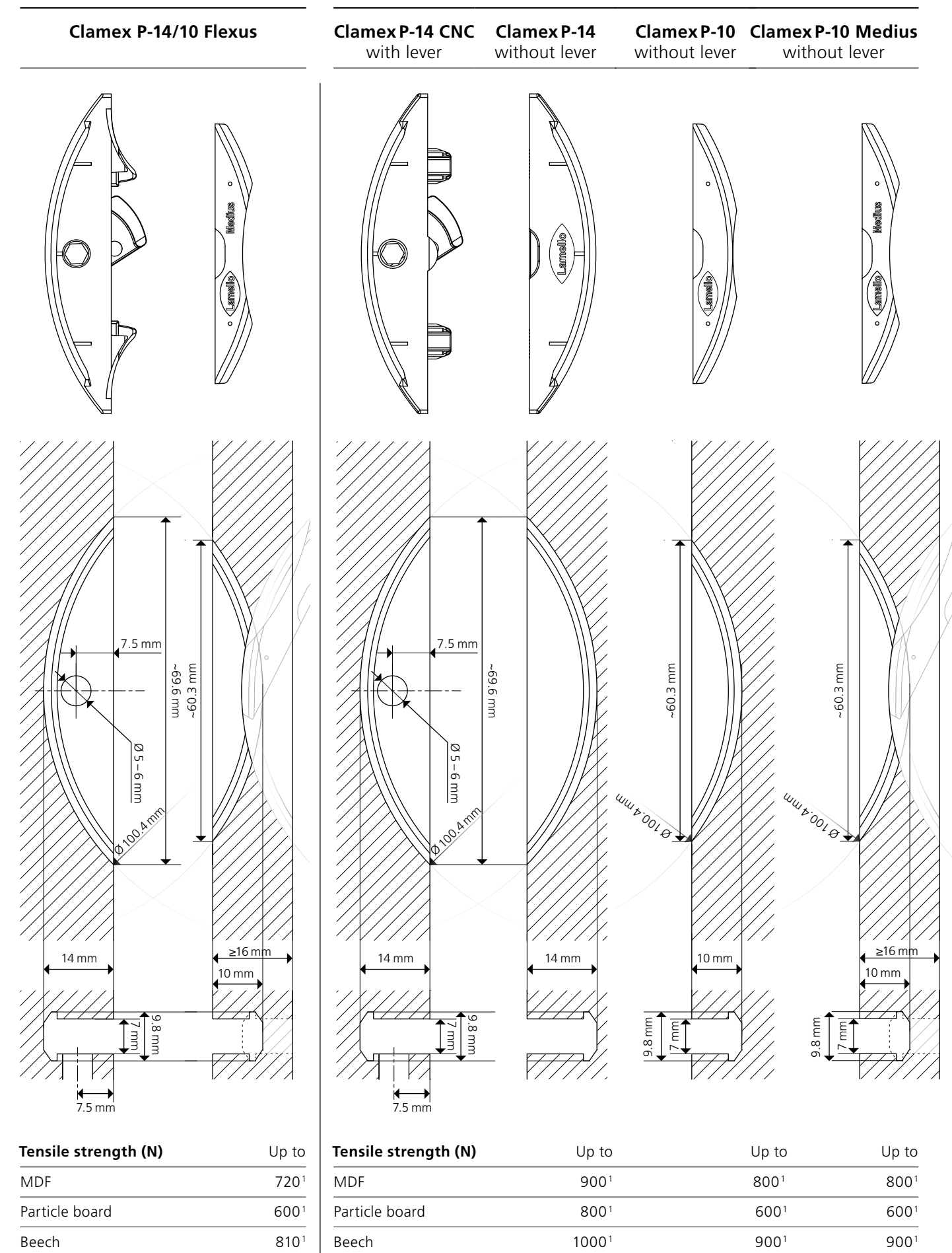
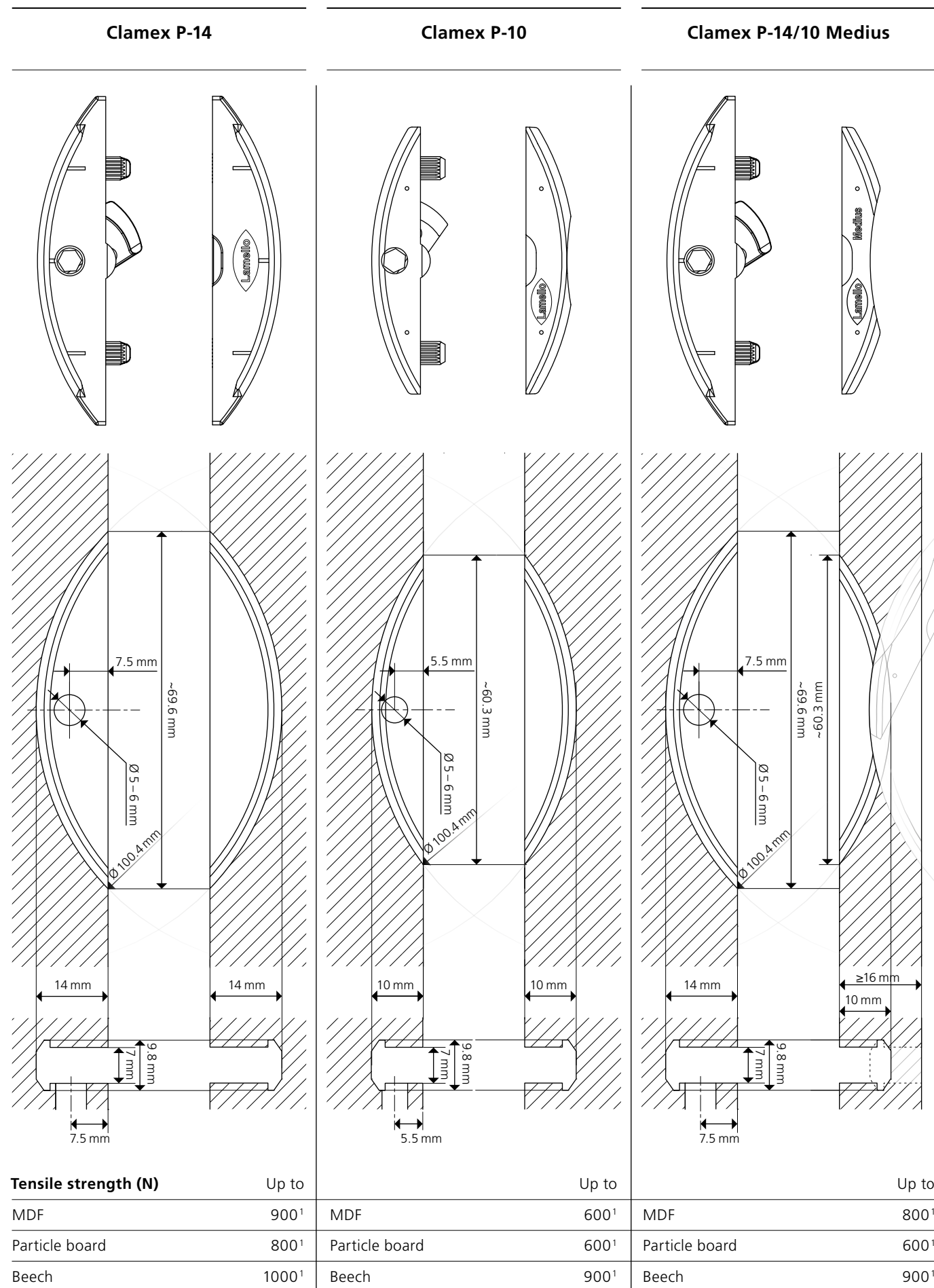


Lamello depth adjustment system



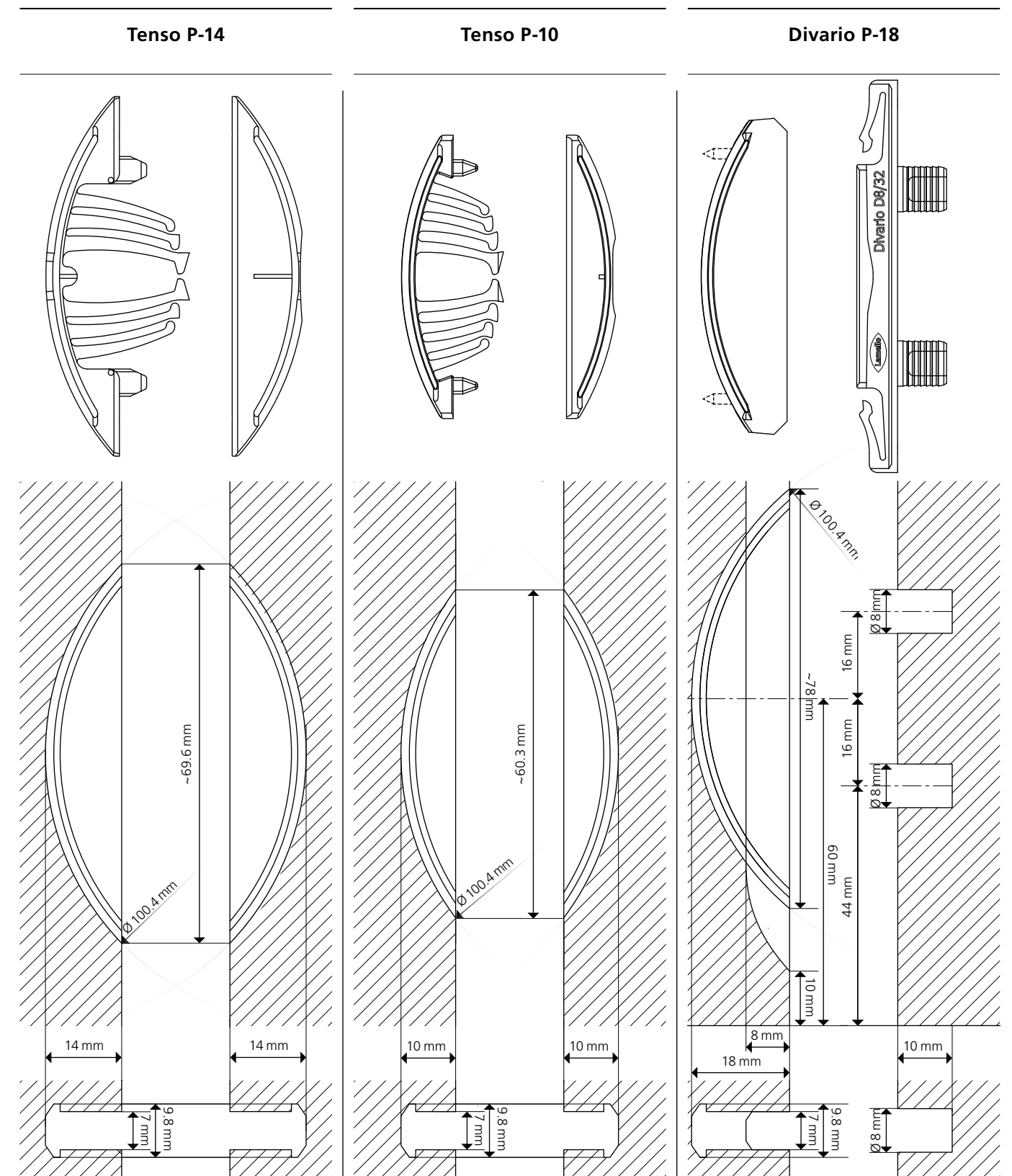
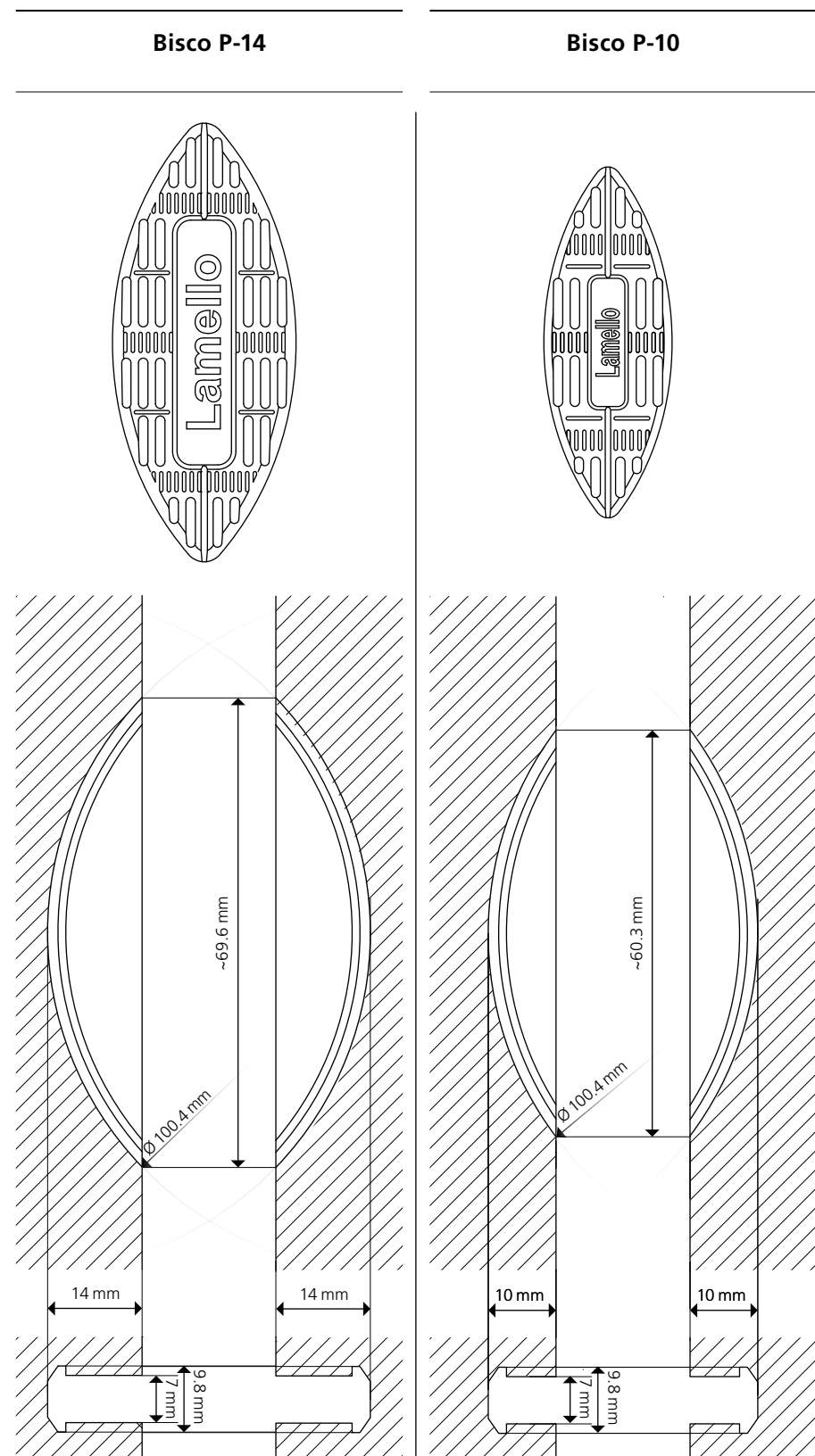
Technical information

Overview of connectors + grooves (scale 1:1)



Technical information

Overview of connectors + grooves (scale 1:1)



Tensile strength (N)

Depending on the adhesive

Depending on the adhesive

Load limits per connector (N)*

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

Tensile strength (N)

All materials	600 ¹
---------------	------------------

Accessories / Spare Parts

P-System

P-System



P-System connector assortment

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



P-System connector assortment

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

Clamex P



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



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



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

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



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



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



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



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

Accessories / Spare Parts

P-System

Combination CNC and Zeta P2



Positioning pin CNC for Zeta P2*,

2 pieces	Art. No.
Ø 5 mm	251048
Ø 8 mm	251066



Positioning clip CNC for Zeta P2*

Ø 6 mm	Art. No.
	251067

for positioning in the Clamex P access hole (6 mm)

Tenso P



Tenso P-14/10 preload tool

Tool to pre-load the Tenso P	Art. No.
	145400



P-System 4 mm depth adjuster attachment for P-8

For offset installation on dividing panels 16 mm with Tenso P-10	Art. No.
	145439

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

Divario P



Divario P-18 Marking jig metal with marking points

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



Divario P-18 Marking jig plastic, to mark with a pencil

Marking jig to mark the Divario holes with a pencil	Art. No.
	125511



Divario P-18 Installation tool

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



Divario P-18 Starter set

80 pairs in Systainer Size I, incl. installation tool and marking jig in metal	Art. No.
	145551

Zeta P2



Stop square for Zeta P2, Top 21, Classic X

For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints	Art. No.
	251044



Spacer for Zeta P2, Top 21, Classic X

5 mm, aluminium for 18 mm panels	Art. No.
	253027
2 m, plastic for 16 mm panels	Art. No.
	253023
4 mm, plastic for mitres	Art. No.
	253026



P-System groove cutter DP (diamond),

Ø 100.4 x 7 x Ø 22 mm	Art. No.
Z3, 4 NL for Zeta P2	132140



P-System groove cutter HW (carbide),

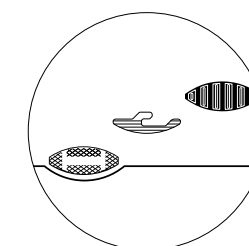
Ø 100.9 x 7 x Ø 22 mm	Art. No.
Z3, 4 NL for Zeta P2	132141

Lamello System

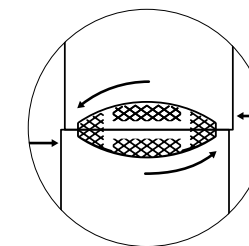
The original for efficient, intuitive and precise joints



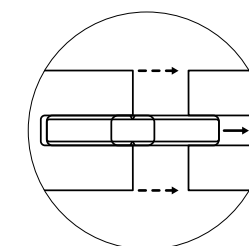
Features



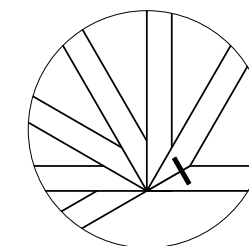
Versatile applications
One cutting principle for many different joining elements



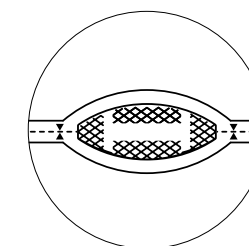
Lateral tolerance
The generous sliding tolerance allows for perfect flush alignment of workpieces



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



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



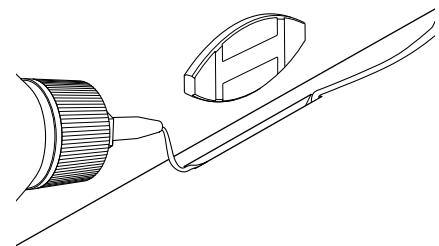
Symmetrical
The identical groove in both workpieces leads to an increase in efficiency in production

Lamello System

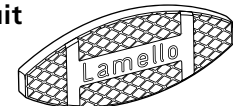
Overview

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

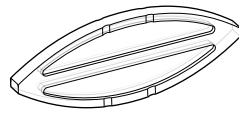
Glued



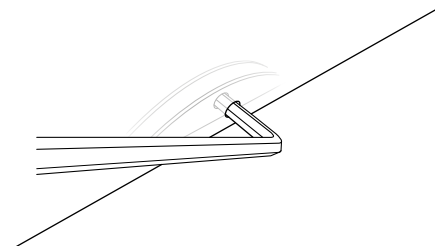
Original wood biscuit



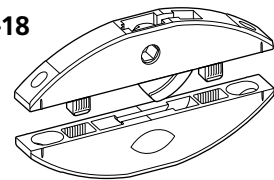
C20



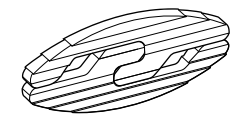
Detachable



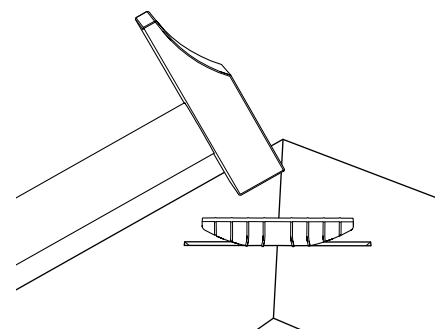
Clamex S-18



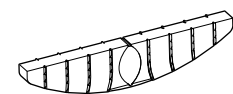
Simplex



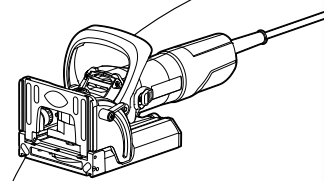
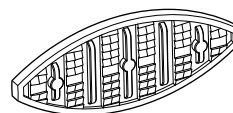
Inserted



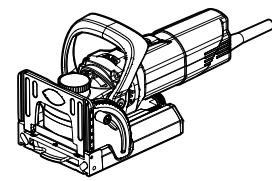
E20



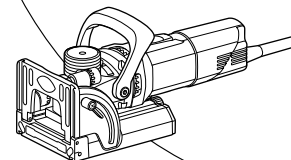
K20



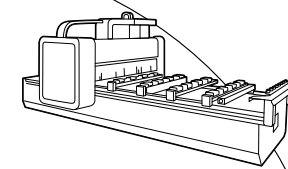
Classic X
Biscuit joiner



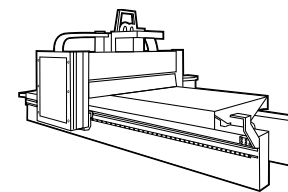
Top 21
Biscuit joiner



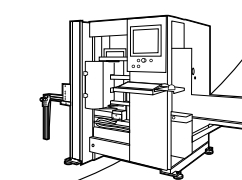
Zeta P2
Biscuit joiner



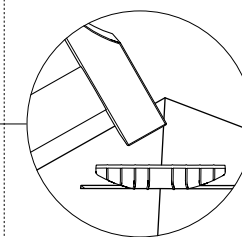
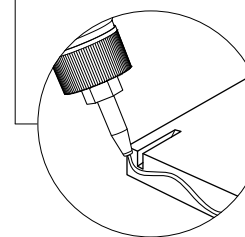
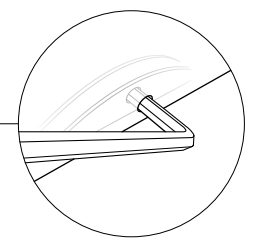
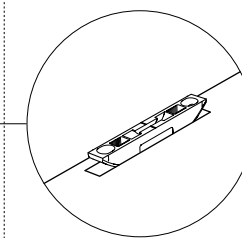
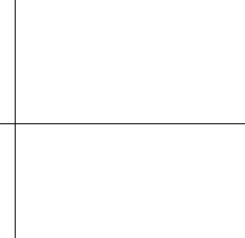
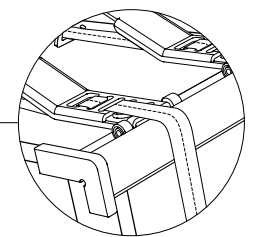
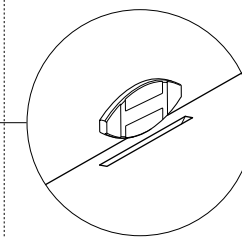
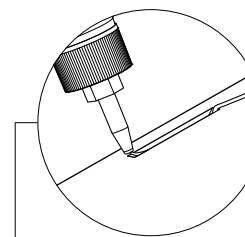
CNC processing centres with **consoles**




CNC processing centres with **nesting technology**



CNC processing centres **vertical**





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

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

Lamello System

Applications

Furniture manufacturing



Interior fitting



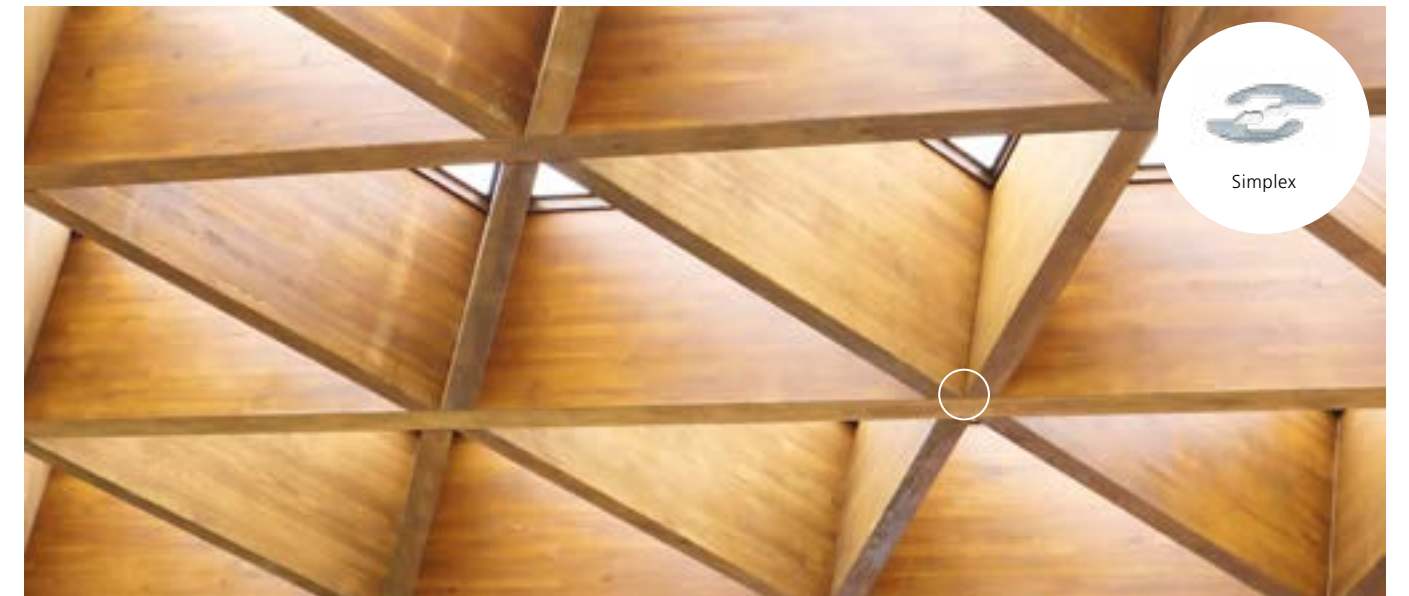
Lamello System

Applications

Kitchen manufacturing



Commercial joinery



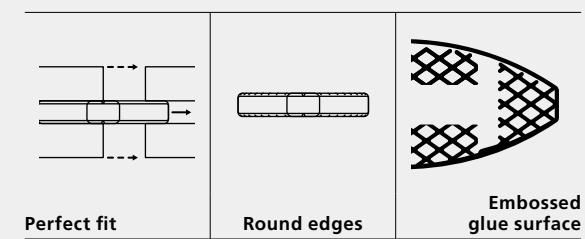
Shop fitting

Original wood biscuit

The original wood biscuit that always fits



Features

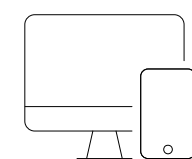


The original wood biscuit is the proven solution for wood joints and the original from the inventor of the system. The original wood biscuit guarantees quality with its dimensional accuracy, optimal glue distribution, dimensional stability as well as the sustainable cultivation of the beech wood. The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

Articles

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

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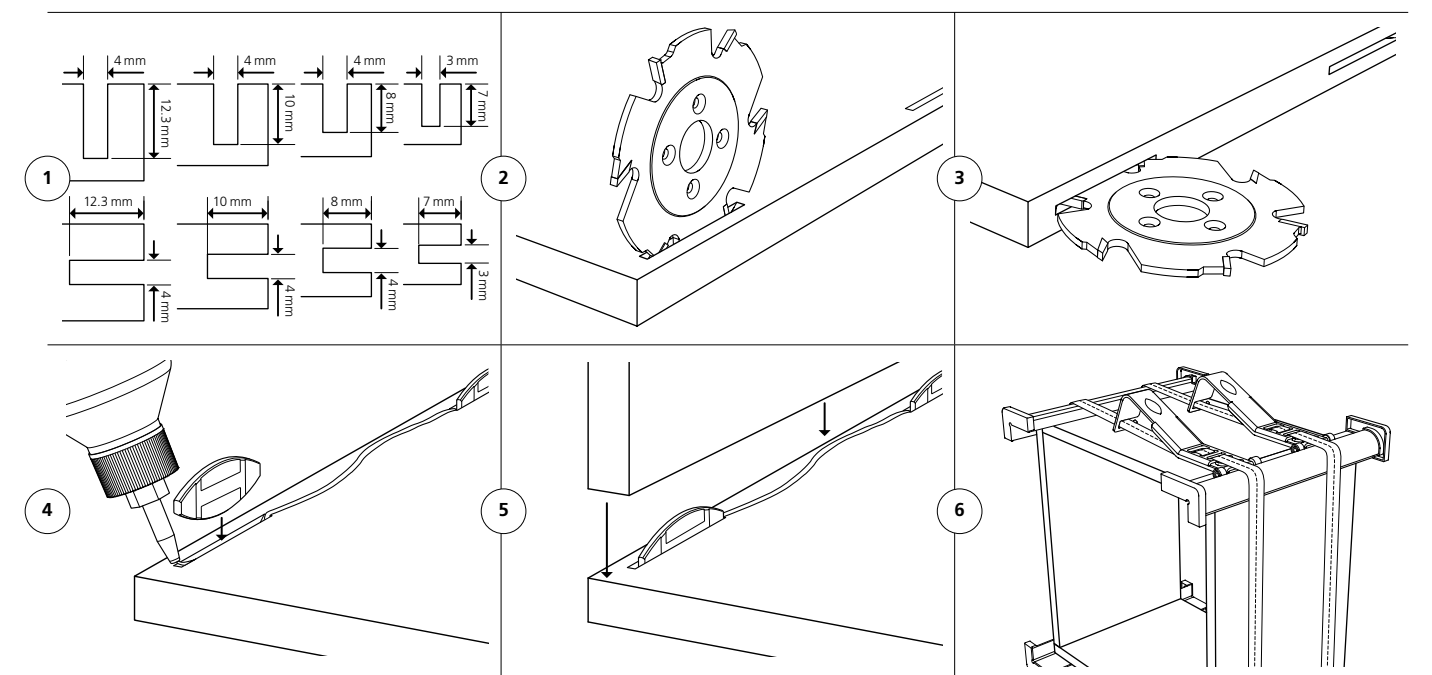


Experience the connector live and receive comprehensive product information!




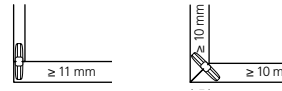
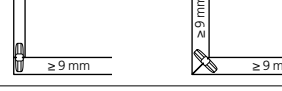
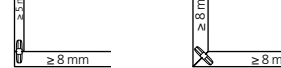
* Installation of wood biscuits with cutter Ø 100 × 4 × Ø 22 mm (standard cutter). Installation of H9 wood biscuits with cutter Ø 78 × 3 × Ø 22 mm (Art. No. 132009)

Function



Technical data

Joining methods

20	
10	
0	
H9	

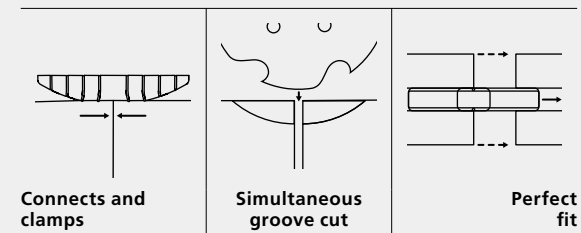
Size 20	56 × 23 × 4 mm
Size 10	53 × 19 × 4 mm
Size 0	47 × 15 × 4 mm
Cutter	Ø 100.4 × 4 × Ø 22 mm
Size H9	38 × 12 × 3 mm
Cutter	Ø 78 × 3 × Ø 22 mm
Material connector	Beech
Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
Clamping force (N)	Depending on the adhesive
Material range	Particle board,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

See PAGE 100–101 for technical specifications

E20

The self-clamping element

Features



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

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

Articles

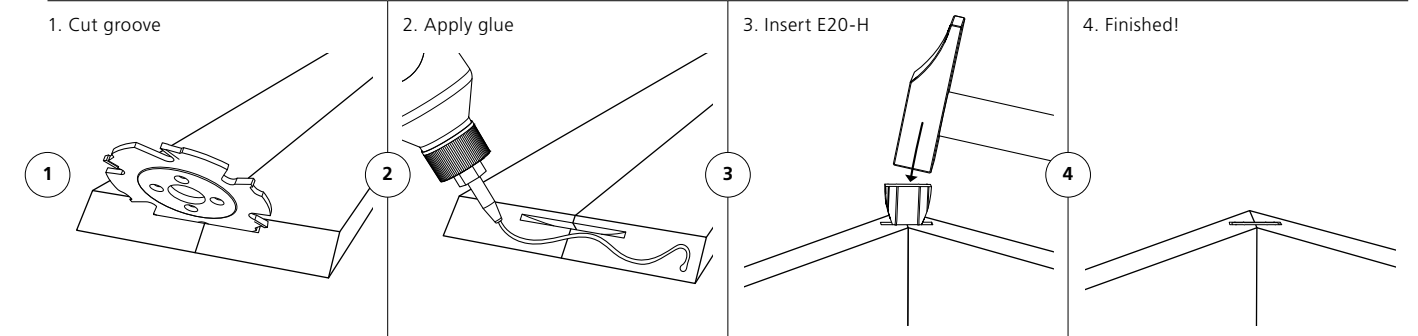
E20-H	Art. No.
80 pieces	145021
400 pieces	145026
1200 pieces	145028

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

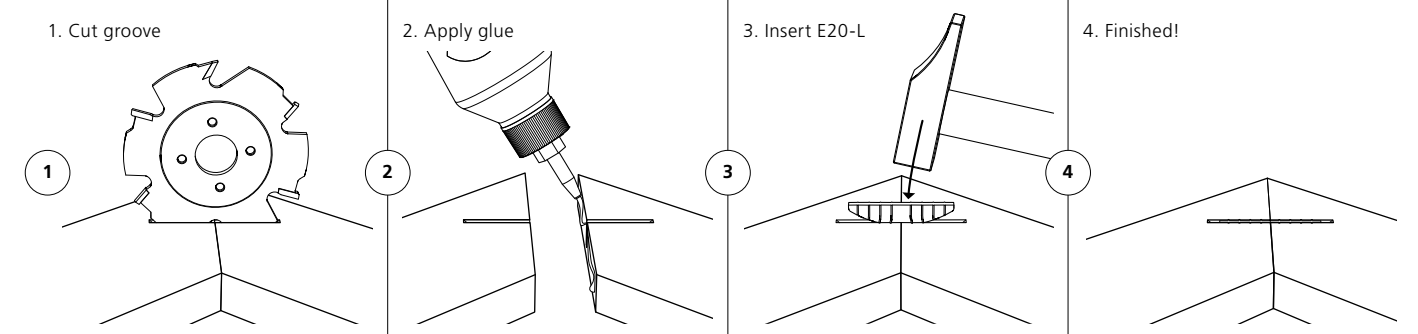
Assorted	Art. No.
40/40 pieces (E20-H/E20-L)	145020

Function

E20-H

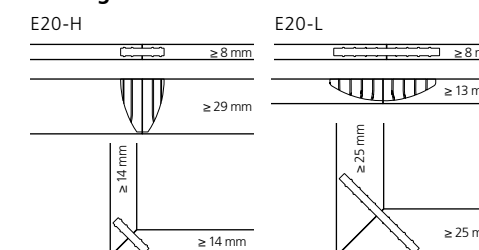


E20-L



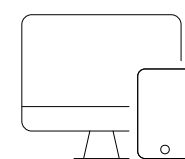
Technical data

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.

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Experience the connector live and receive comprehensive product information!

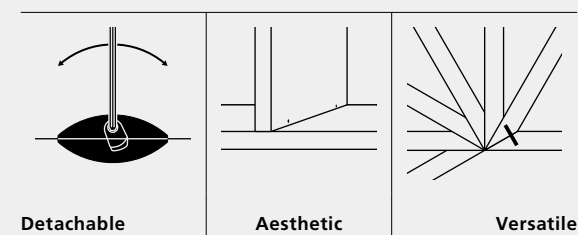


Clamex S-18

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



Features



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

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

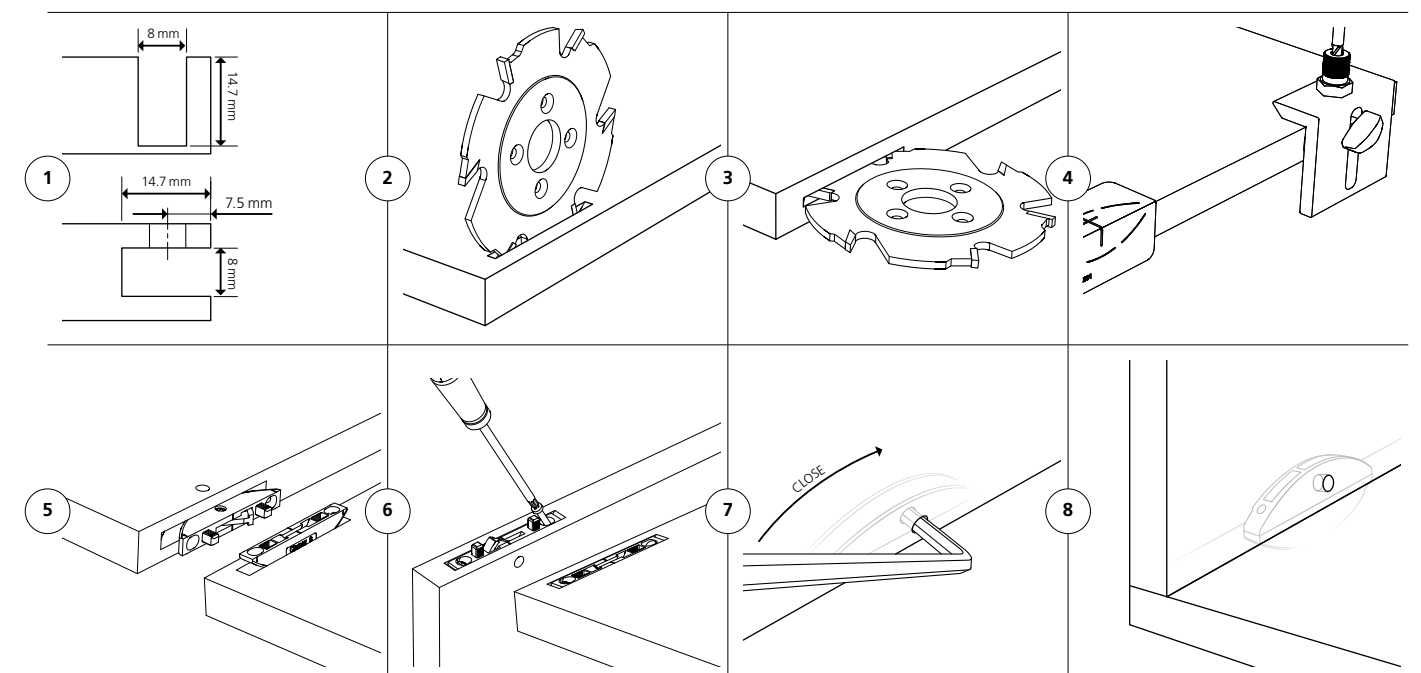
Clamex S-18 is used in mitre joints from 19 mm material thickness and in butt joints from 15 mm.

Articles



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

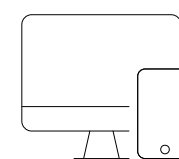
Function



Technical data

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

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

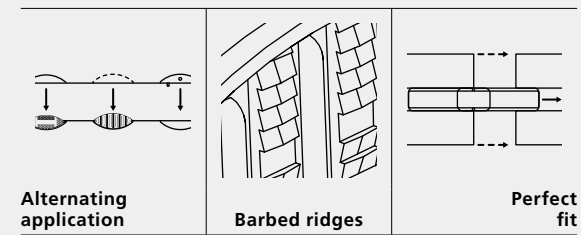
See PAGE 102 for technical specifications | ¹ See comment on load limits on PAGE 183

K20

The clamping element, which holds the workpiece in position



Features




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

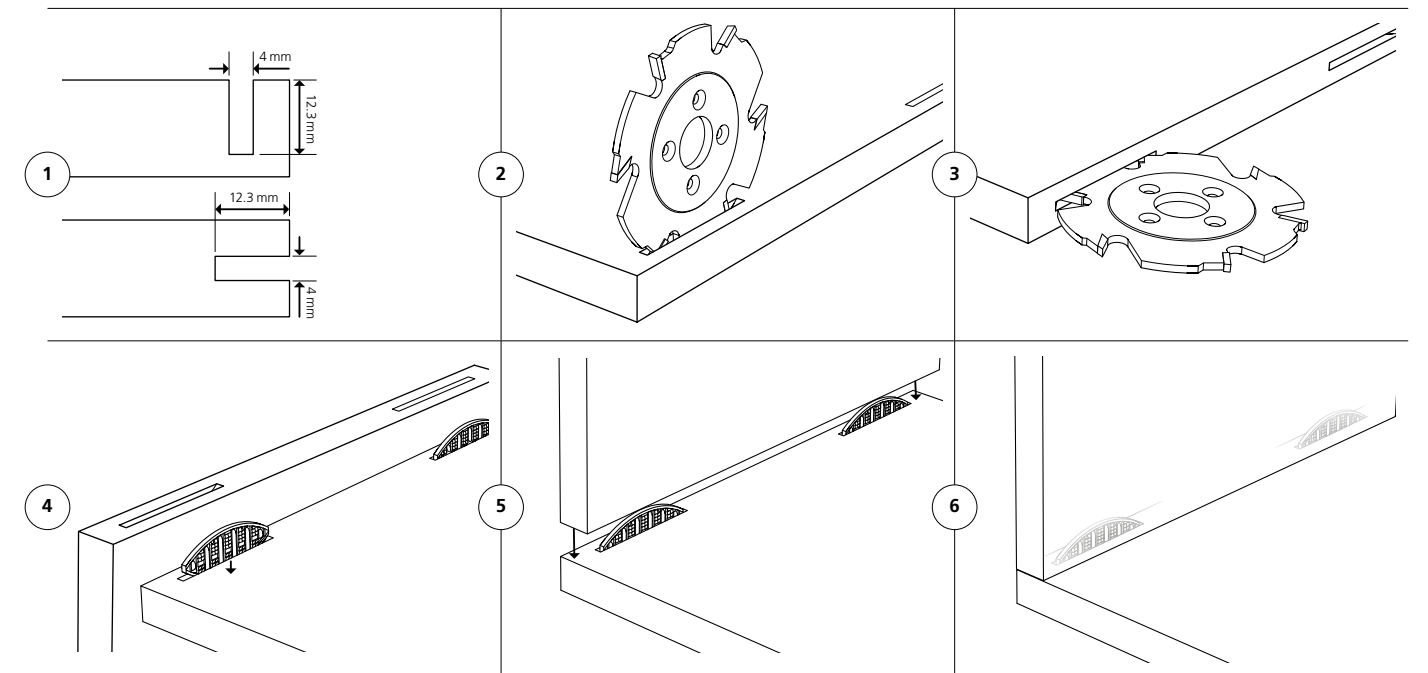
The clamping biscuit is ideal for difficult to clamp workpieces such as fillers or covers and is able to hold workpieces in the correct position until the adhesive is dry.

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

Articles



	Art. No.
K20	
80 pieces	145001
250 pieces	145000

Function

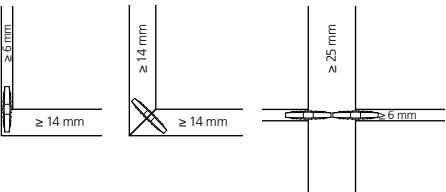


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Experience the connector live and receive comprehensive product information!

Technical data

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

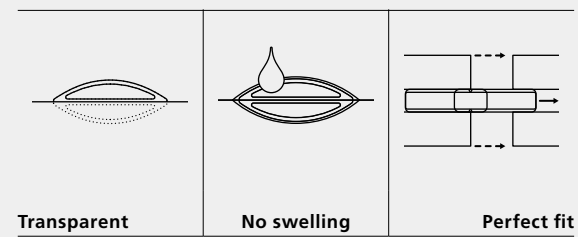
See **PAGE 103** for technical specifications

C20/C10

The transparent element



Features



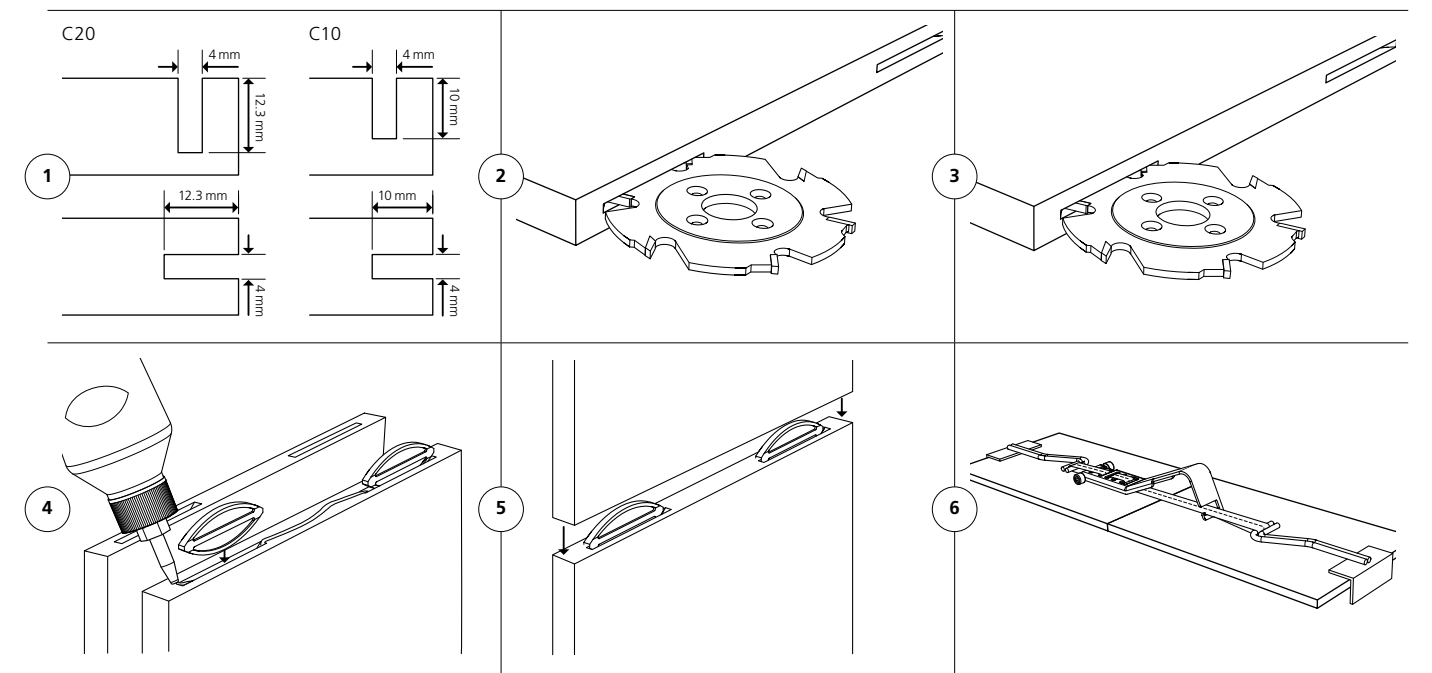
C10 and C20 plastic biscuits are the proven joining solution for mineral composite materials such as Corian, Varicor.

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

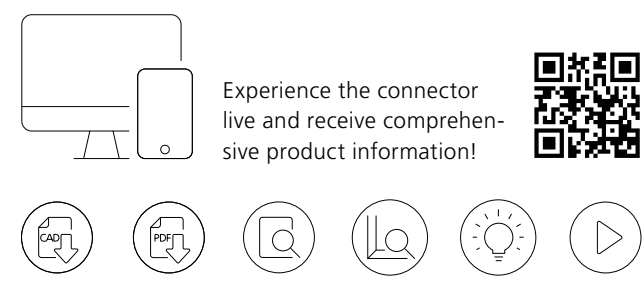
Articles



Function



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Technical data

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

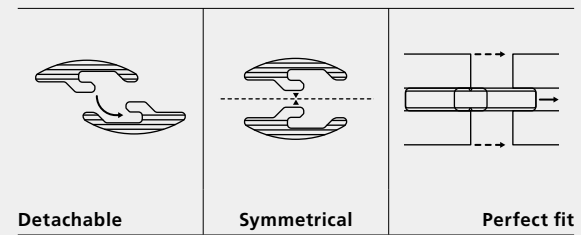
See **PAGE 101** for technical specifications

Simplex

Detachable slide-in connector



Features



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

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

Articles



Simplex	Art. No.
50 pairs	166101
100 pairs	166100

Accessories

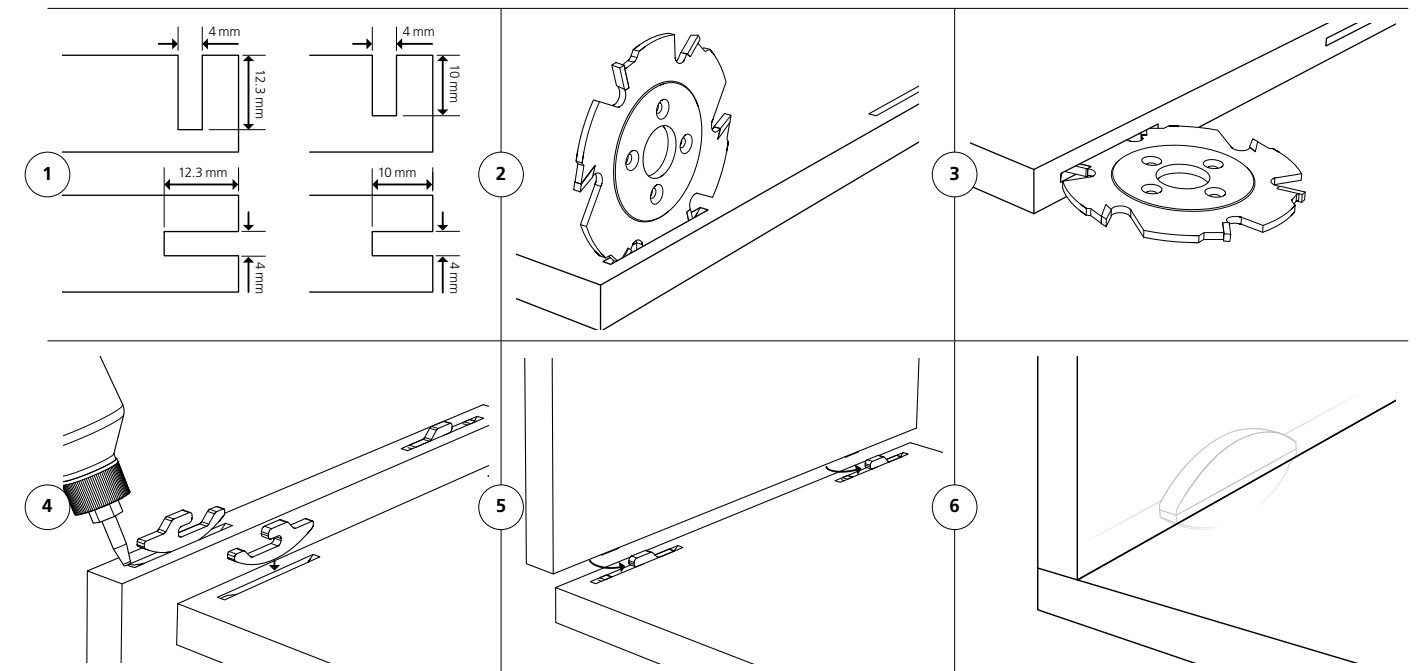


Simplex inserting tool	Art. No.
For accurate positioning of Simplex	166110

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Experience the connector live and receive comprehensive product information!

Function



Technical data

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

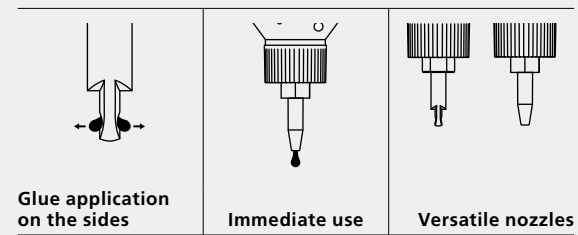
See **PAGE 102** for technical specifications

Minicol

The all purpose glue applicator



Features



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

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

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

Articles



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

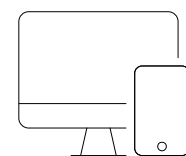


Minicol pointed nozzle	Art. No.
Plastic nozzle	335522



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

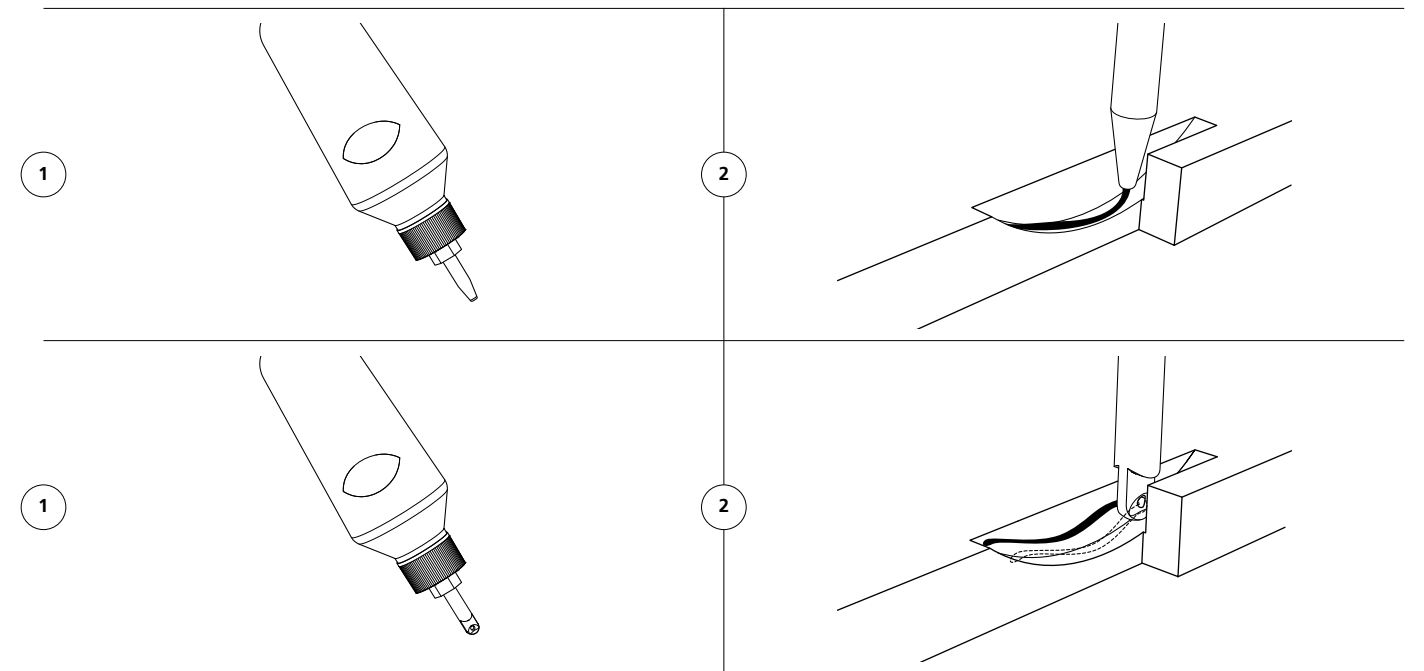
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Experience the Minicol live and receive comprehensive product information!



Function



Technical data

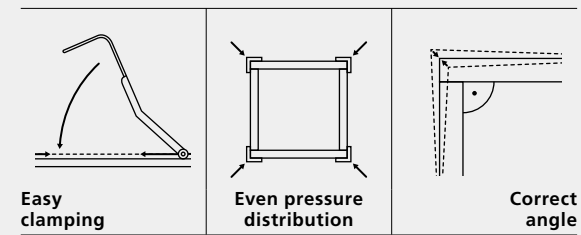
Dimension	100 × 100 × 230 mm	
Volume	300 ml	
Material	Base	Solid maple
	Bottle	Plastic
	Nozzle	Metal/Plastic

Clamping set

Clamping system for cabinets



Features



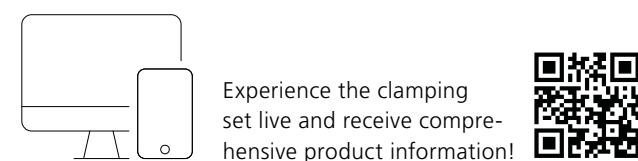
Clamping set is a system for glueing cabinets and various other components in furniture production and is an addition to the Lamello system. The clamping set consists of profile sections to protect the edges, 8 meter long straps with tensioners and two tension hooks. Unlike with screw clamps, the pressure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

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

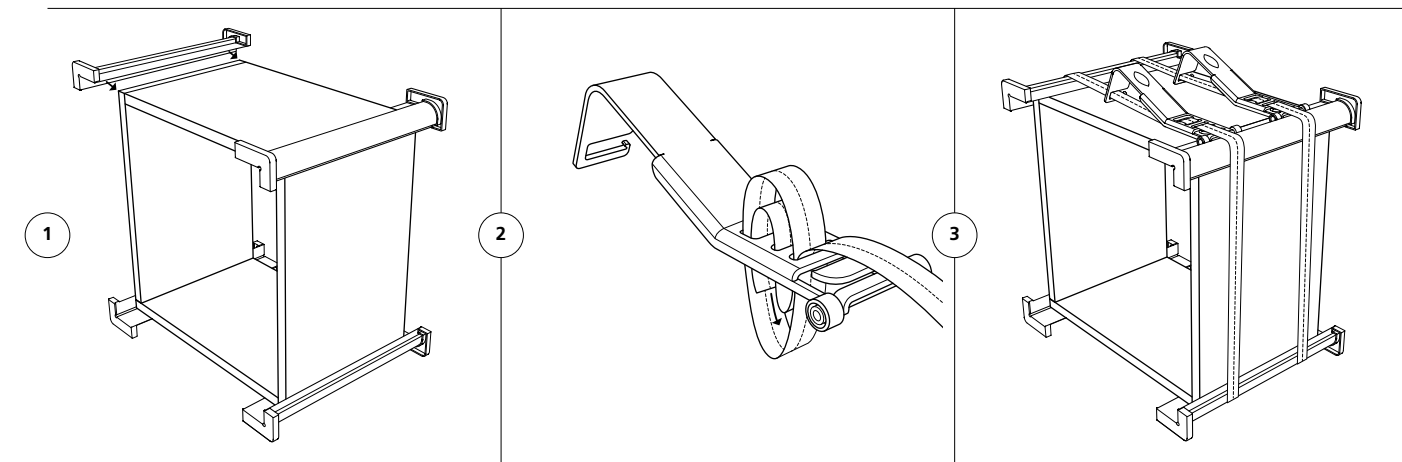
Articles

Clamping set		
20 cm	1 piece of clamps 8 m strap 4 pieces profile sections 20 m	Art. No. 175021
60 cm	2 pieces of clamps 2 pieces 8 m straps 4 pieces profile sections 60 cm 2 pieces tension hooks	Art. No. 175020
Tension hooks		
2 pieces		Art. No. 175200
Profile sections		
4 pieces, length 12 cm		Art. No. 175401
4 pieces, length 40 cm		Art. No. 175402
4 pieces, length 60 cm		Art. No. 175403

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Function



Technical data

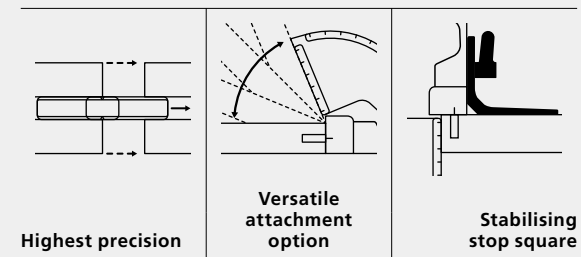
Min. workpiece length	150 mm	
Material	Aluminium protectors Polyester belt for clamps Clamps/Tension hooks	Anodised aluminium Polyester Metal powder-coated

Classic X

The original biscuit joiner for every workshop



Features



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

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

Precision in every component leads to perfect accuracy of the workpieces and saves time.

The multifunctional stop square allows perfect mitres by applying on the exterior surface and stabilises the machine in vertical position.

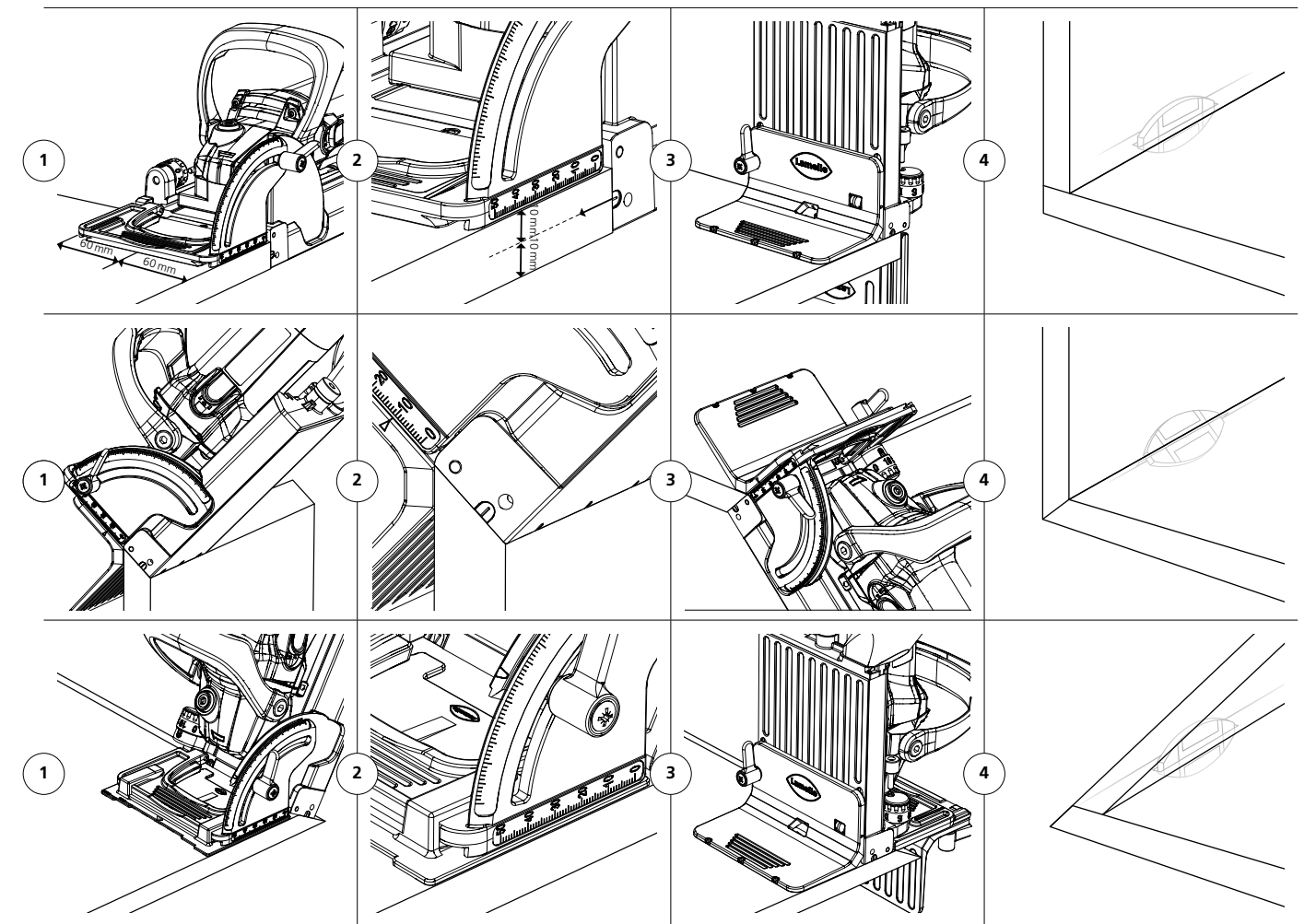
Articles



www.lamello



Function



Technical data

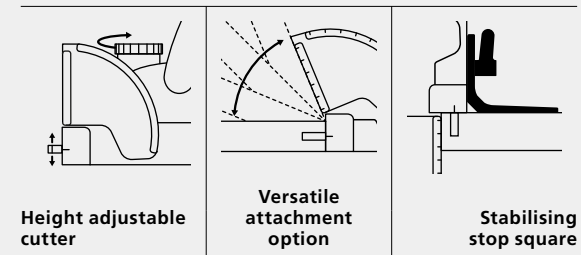
Power/Voltage	850 W/230 V or 120 V	Teeth	Z6 (3+3) with reversing teeth
Speed	10 000 min ⁻¹	Cutting depth max	20 mm
Cutter	Ø 100 × 4 × Ø 22 mm	Weight	2.9 kg

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

Art. No.

In systainer

101500S

In systainer with carbide reversing blade cutter

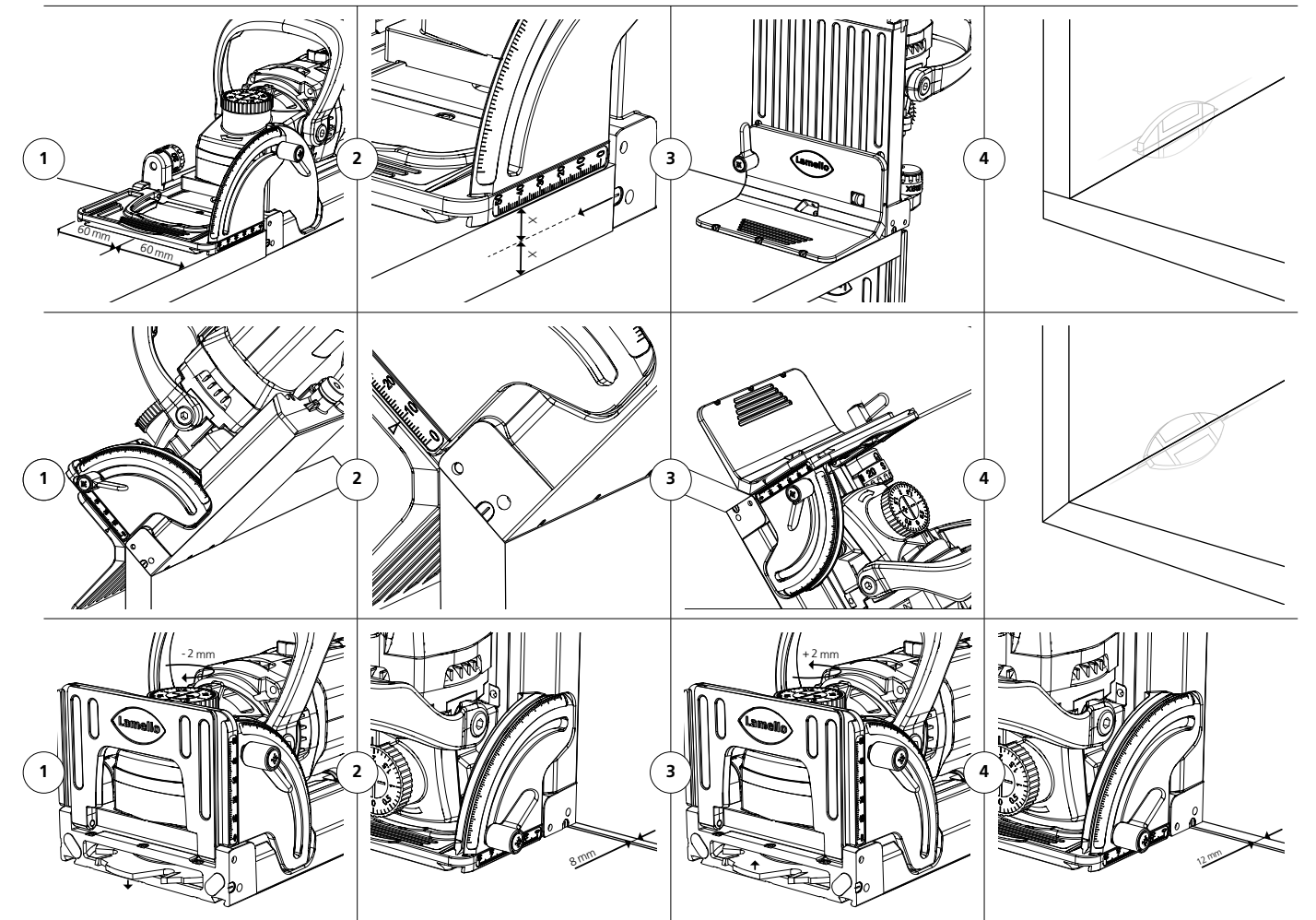
101500SW



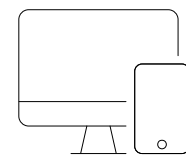
Kit contains

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

Function



www.lamello



Experience Top 21 live and receive comprehensive product information!



Technical data

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



Accessories

Classic X and Top 21

Accessories



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



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



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



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



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



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



Groove cutter HW (carbide), Ø 78 x 3 x 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 x 8 x Ø 22 mm (Clamex S-18 connector) Art. No.
Z4 + V4, 4 screw holes for Top 20, Top 21, Classic X **132108**



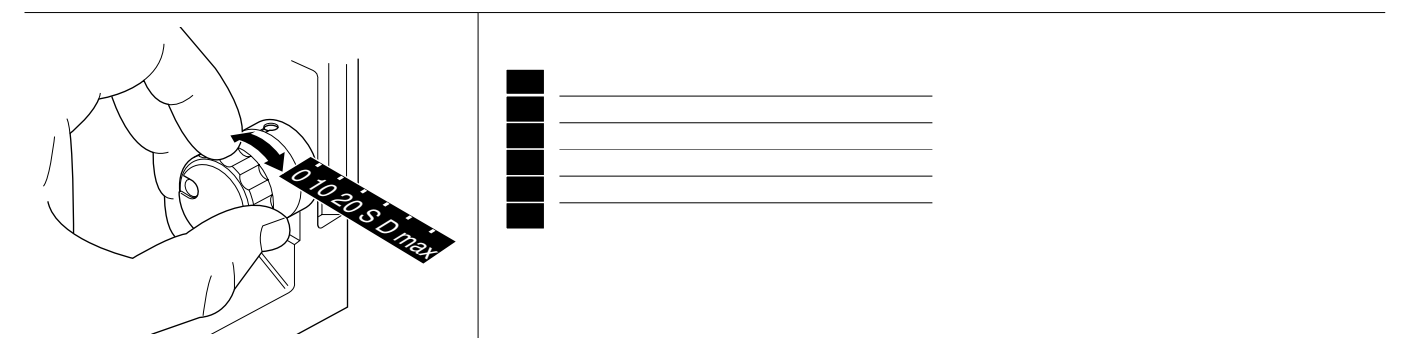
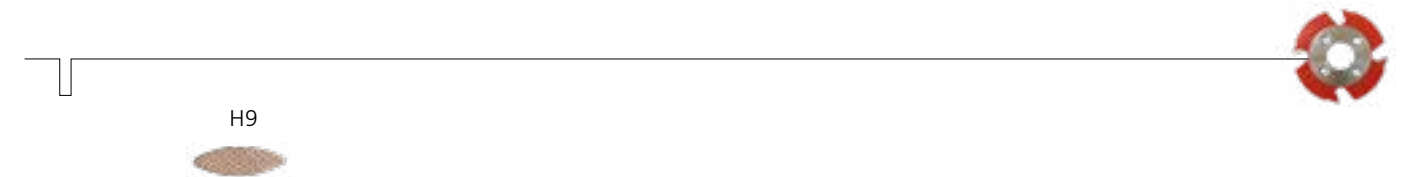
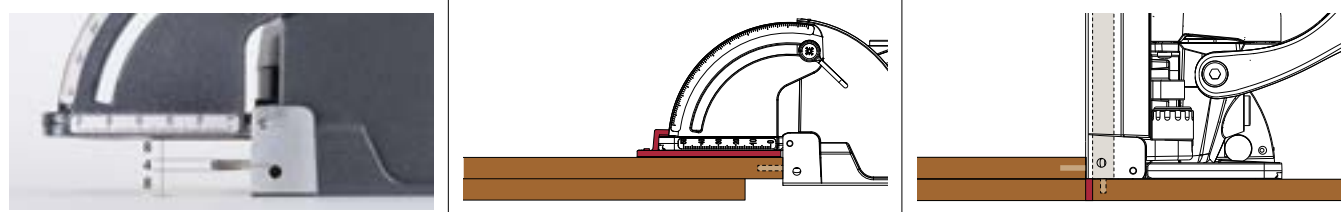
Dust bag Art. No.
For biscuit joiner **337530**
and extractor stub Ø 36 mm **257530**



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



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



Technical information

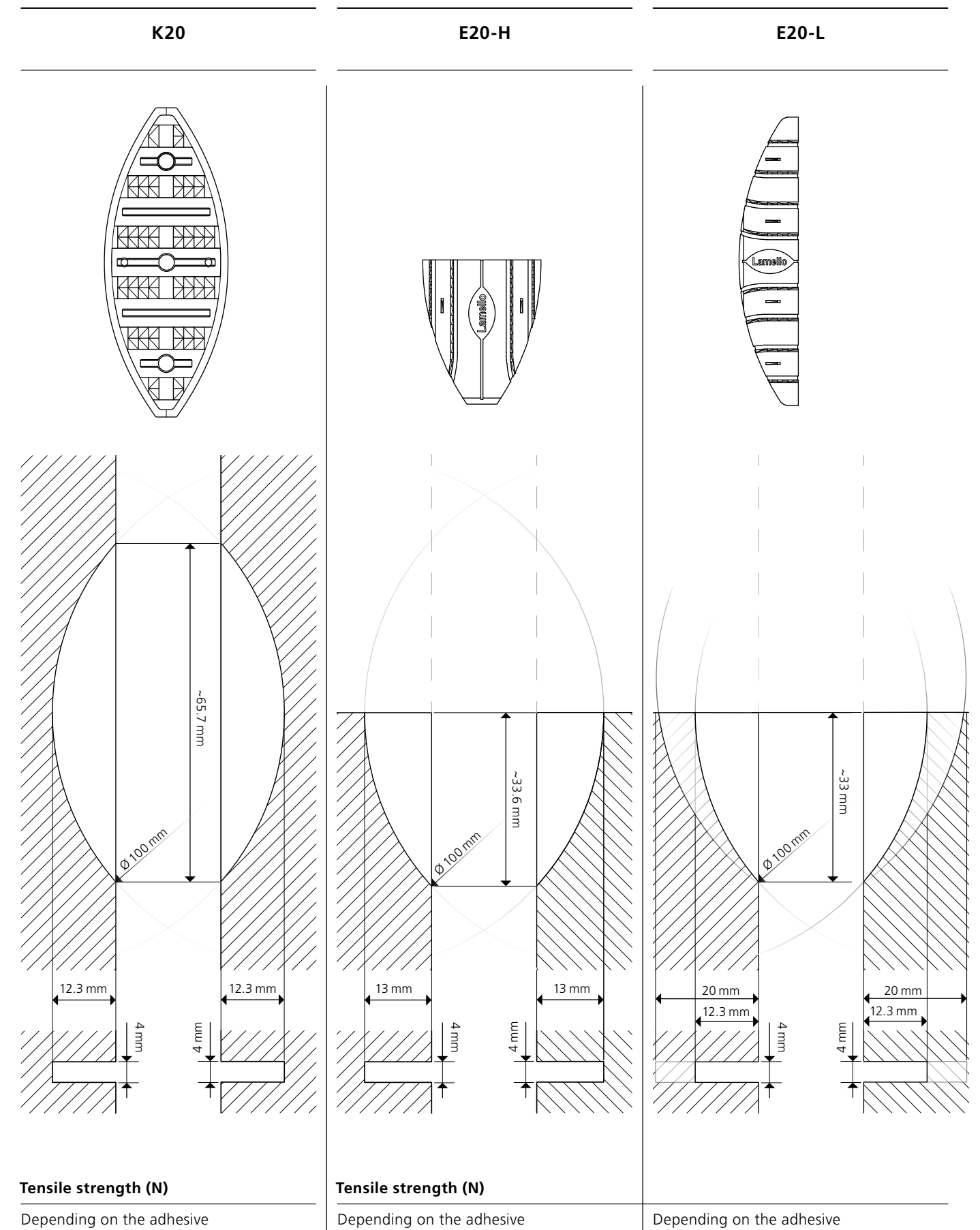
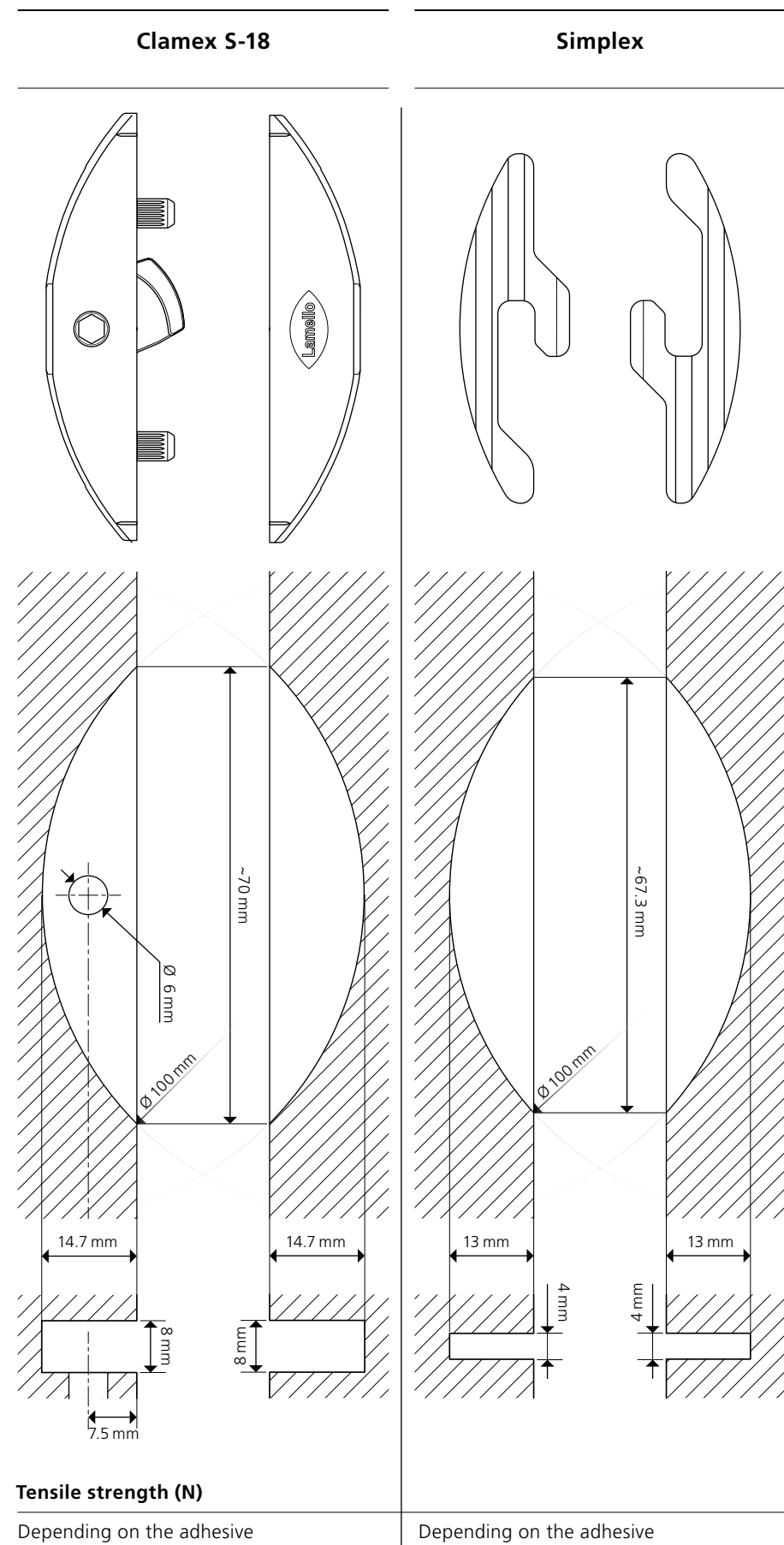
Overview of connectors + grooves (scale 1:1)

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

Original wood biscuit H9	C-20	C10
<p>Tensile strength (N) Depending on the adhesive</p>	<p>Tensile strength (N) Depending on the adhesive</p>	<p>Depending on the adhesive</p>

Technical information

Overview of connectors + grooves (scale 1:1)



Accessories/ Spare Parts

Lamello System

Lamello System



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



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



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



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



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



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



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



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



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

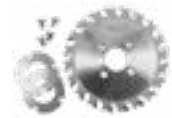
Accessories/ Spare Parts

Lamello System

Lamello System



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



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



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



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



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



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

Clamping set parts



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



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



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



Art. No.
Per meter m¹ **335000**



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



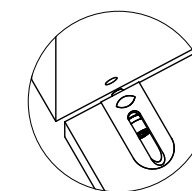
Profile sections Art. No.
4 pieces, length 12 cm **175401**
4 pieces, length 40 cm **175402**
4 pieces, length 60 cm **175403**

Drilling System

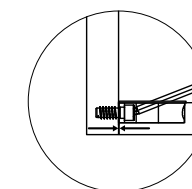
Unique drilling systems for high demands on productivity and aesthetics



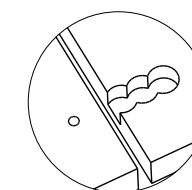
Features Cabineo



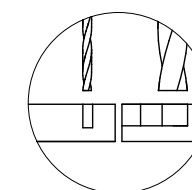
Fast assembly



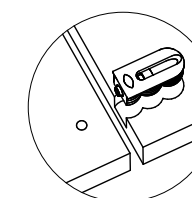
High clamping force



No edge drilling

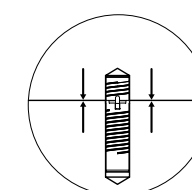


No dowel holes

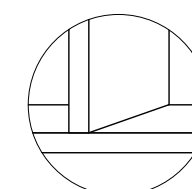


One-piece and pre-installed

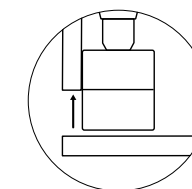
Features Invis Mx2



Fast assembly



Invisible



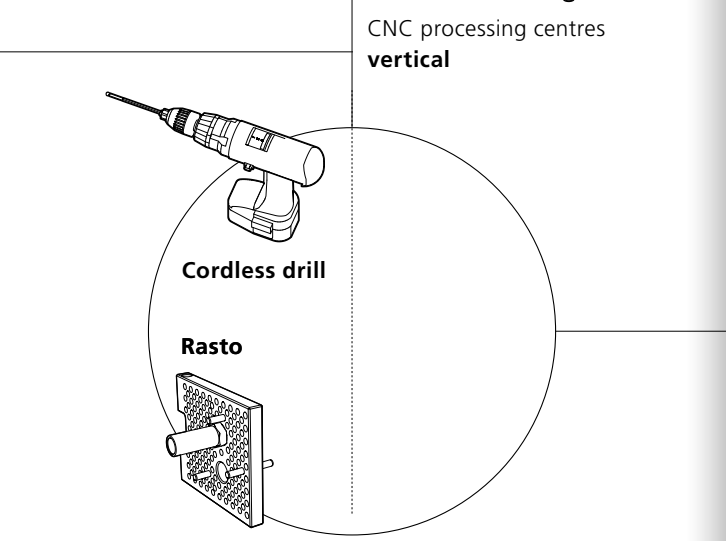
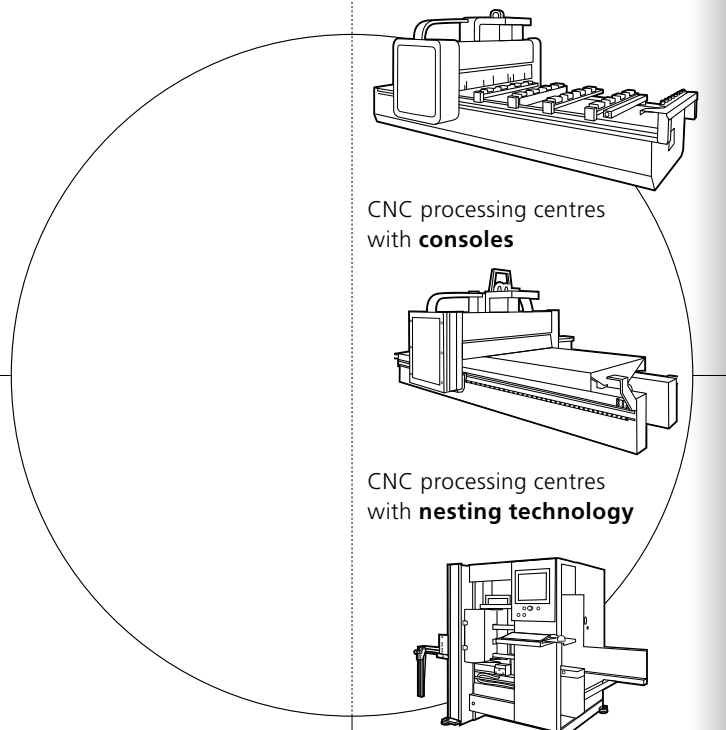
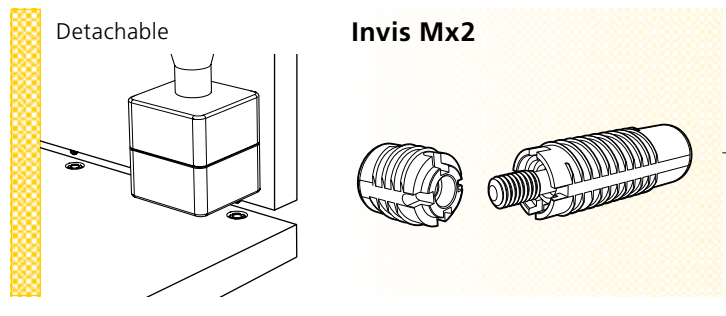
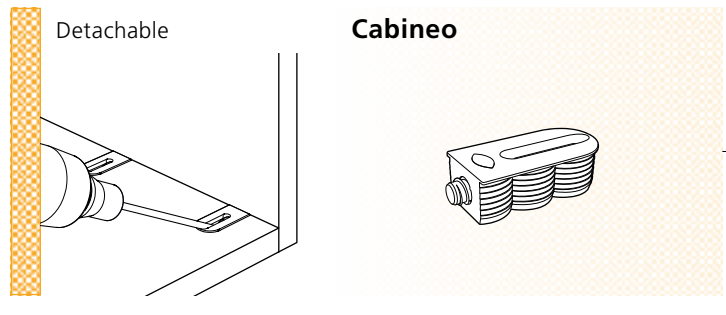
Detachable

Drilling System

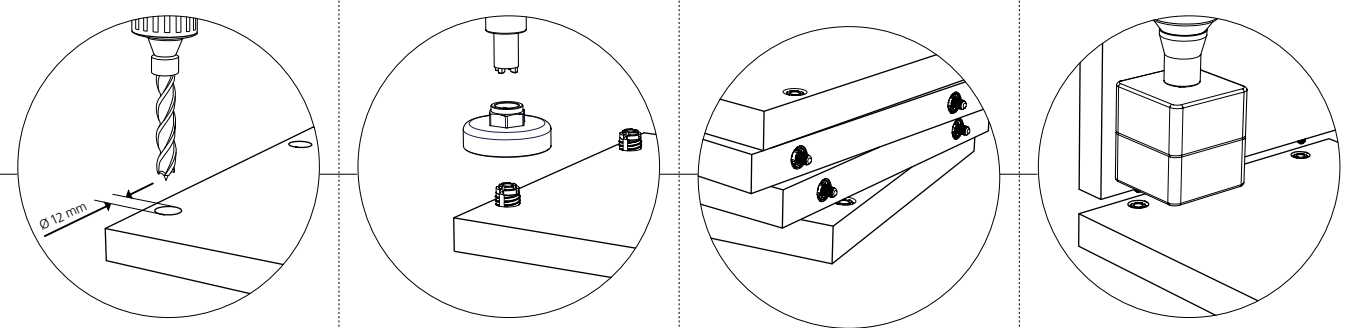
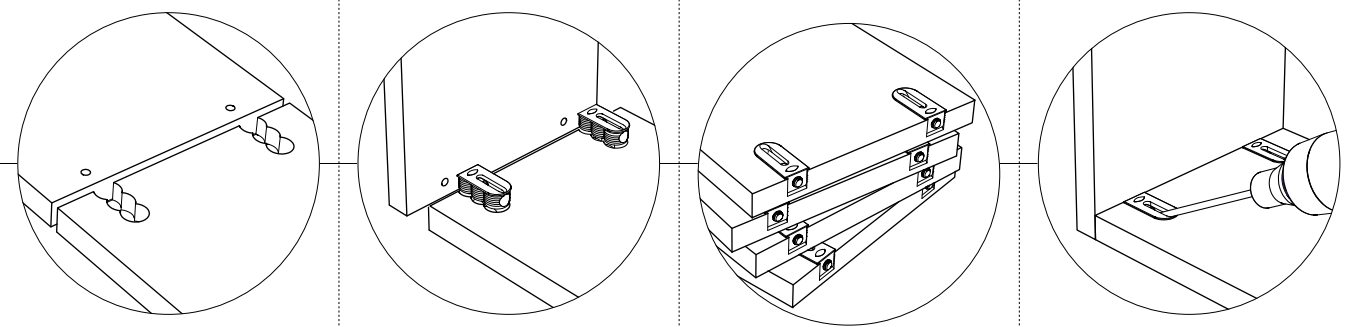
- Cabineo
- Invis Mx2

Overview

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



CNC processing centres **vertical**





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

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

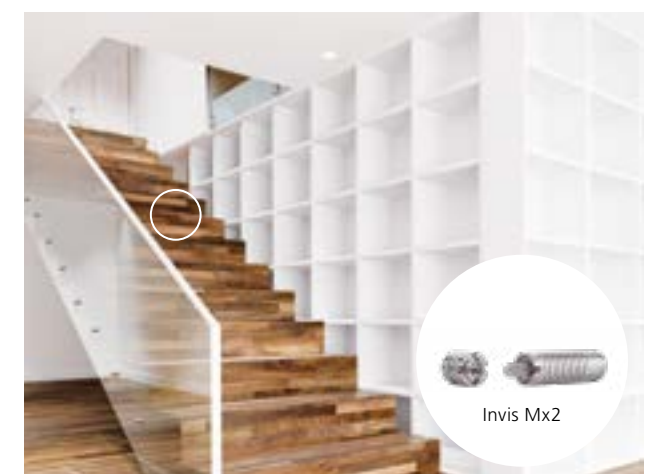
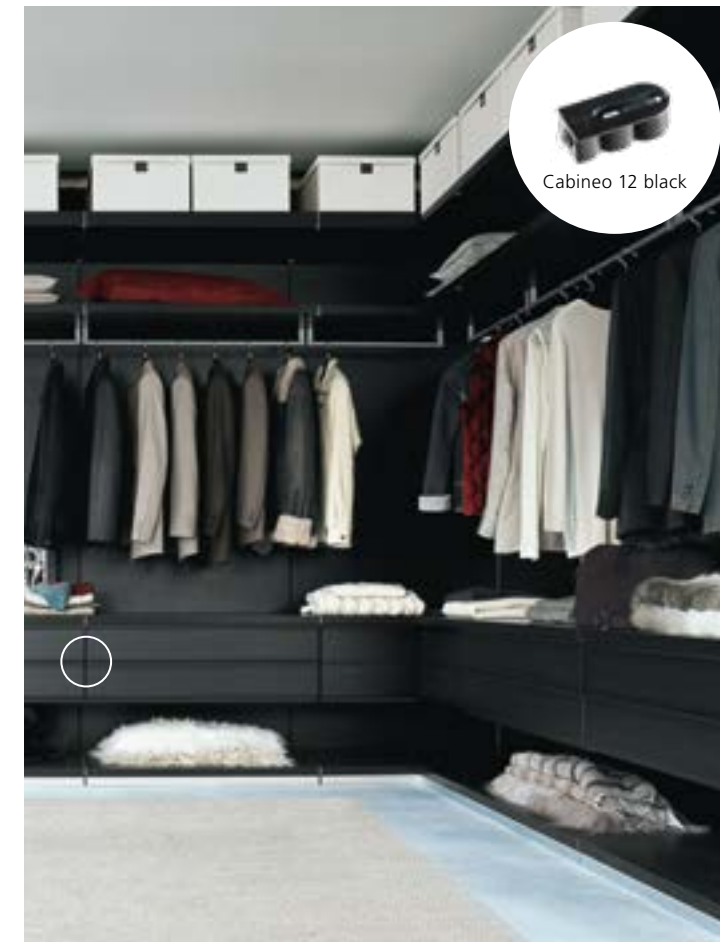
Drilling System

Applications

Furniture manufacturing



Interior fitting



Drilling System

Applications

Kitchen manufacturing



Commercial joinery



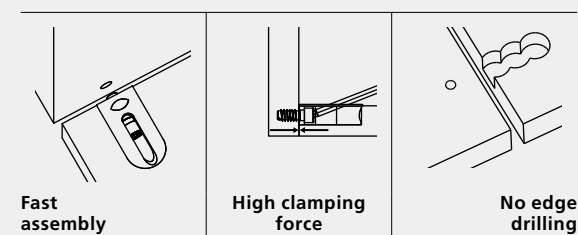
Shop fitting

Cabineo 12

Time-saving cabinet connector for corner joints from 13 mm



Features



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

Articles



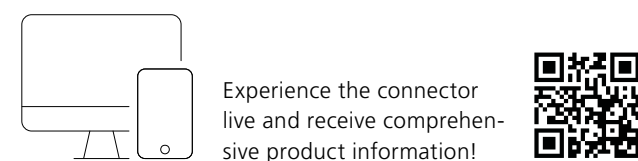
Cabineo 12	Art. No.
500 pieces	186320
2000 pieces	186321



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

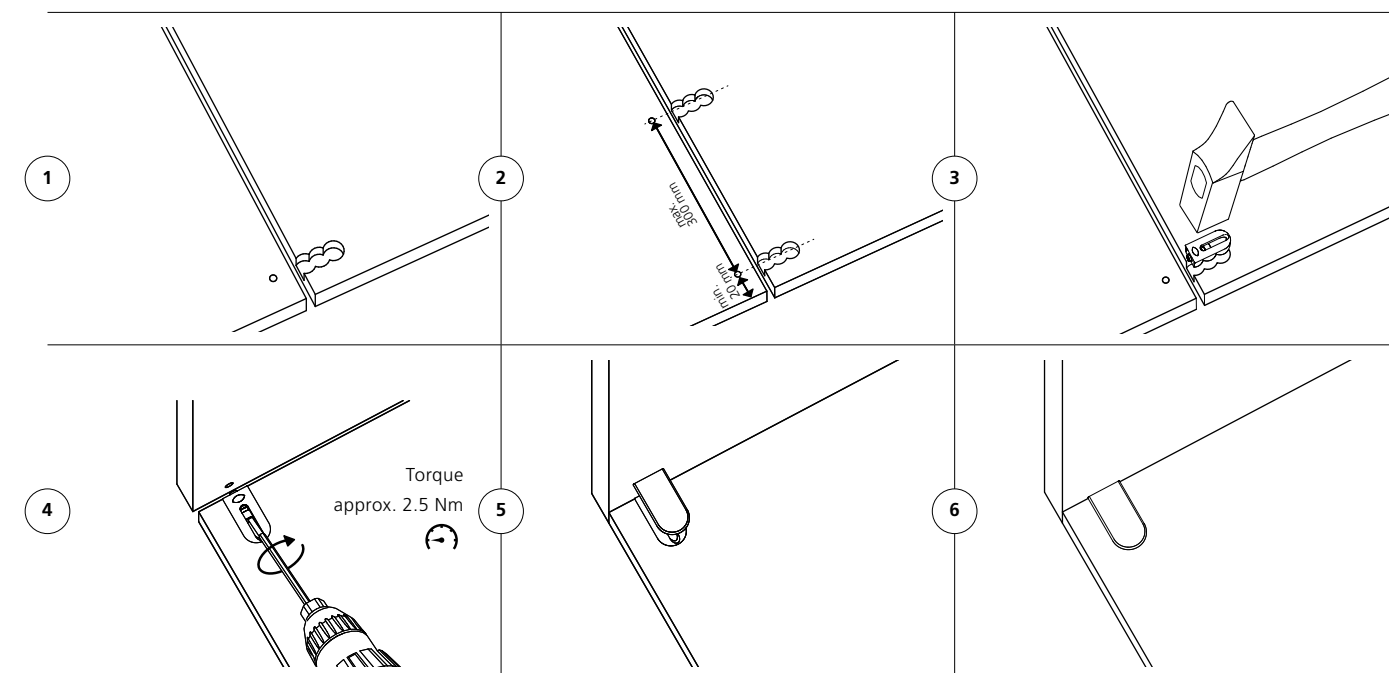
Cabineo 8/12 Starter set	Art. No.
Cabineo 8 + 12 (40 pieces each), incl. Cabineo hex bit and set of cover caps (40 pieces)	186305

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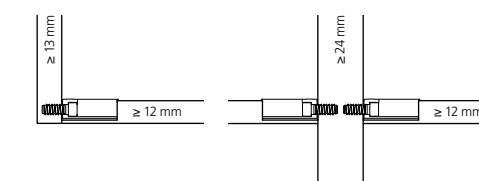
* Original size

Function



Technical data

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



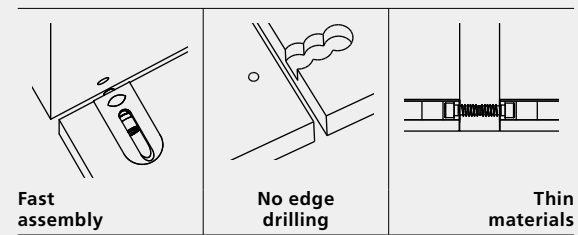
See PAGE 134–135 for technical specifications | ¹ See comment on load limits on PAGE 183

Cabineo 8

Time-saving cabinet connector for centre panels from 16 mm



Features



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

Articles


	Art. No.
500 pieces	186310
2000 pieces	186311






	Art. No.
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

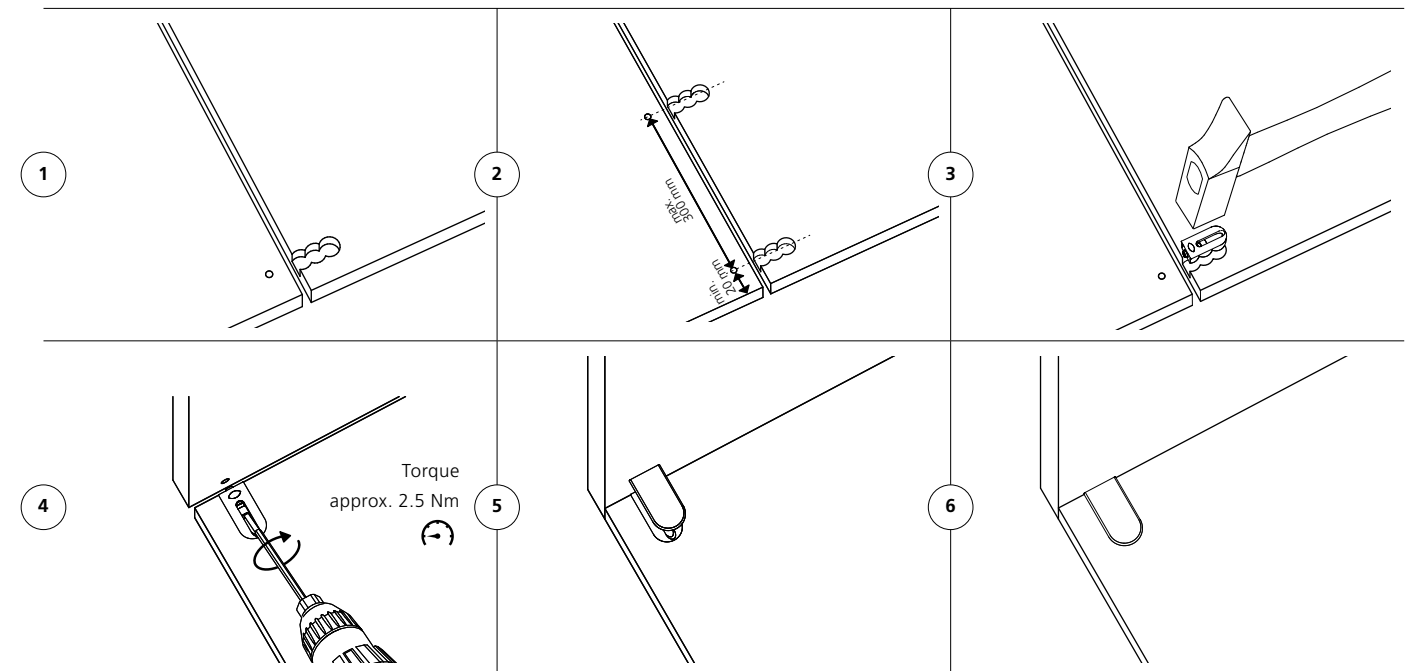
Experience the connector live and receive comprehensive product information!



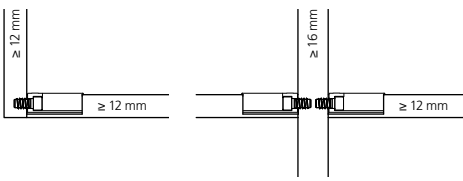






* Original size

Function



Technical data

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

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

Cabineo 8 M6

Wear-resistant cabinet connector for various materials and increased strength



Features



Cabineo 8 M6 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The connector is ideal when joining wood composites with materials such as aluminium, steel or compact laminate.

After installing the connector in the board, the pre-assembled metric screw is screwed into a threaded hole or a socket, using a cordless drill.

Cabineo impresses with its time-saving processing and assembly as well as the high clamping force which leads to stable connections without the need for additional dowels. Cabineo is available in white or black.

Articles



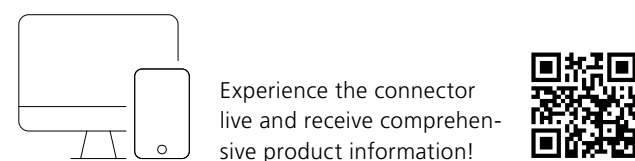
Cabineo 8 M6	Art. No.
500 pieces, metric thread M6	186315
2000 pieces, metric thread M6	186316



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

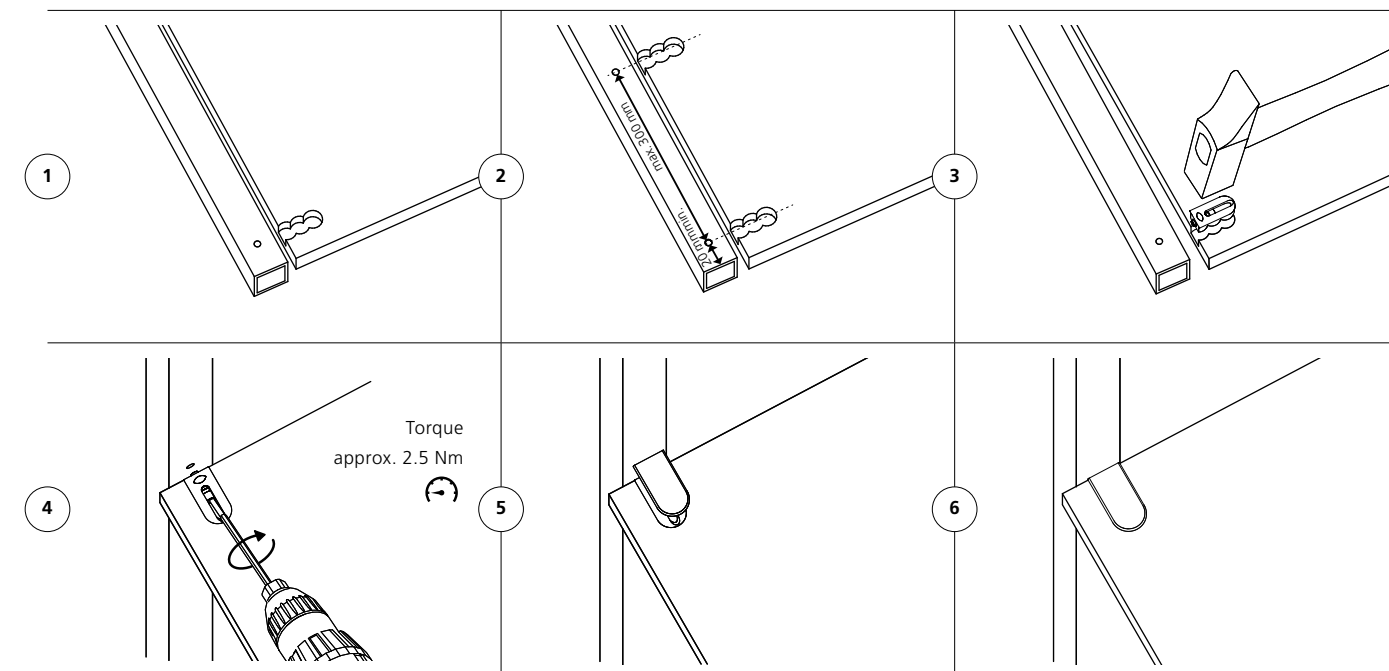
Cabineo 8 M6 Starter set	Art. No.
Cabineo 8 M6 (80 pieces), insert and cover caps (40 pieces each), Cabineo insertion tool (1 piece), Cabineo hex bit 1/4" (1 piece)	186306

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* Original size

Function



Technical data

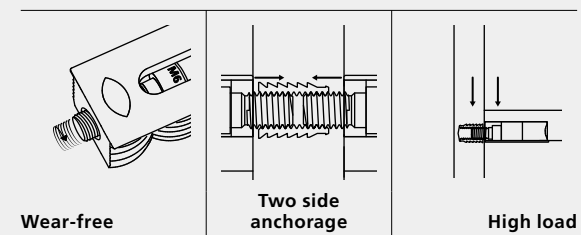
Joining methods	Size	33.8 × 16.5 × 10.8 mm		
	Screw length	8 mm		
	Cutter	Ø 12 mm or smaller		
	Drill	Ø 15 mm		
	Screw thread	M6		
	Material housing	Fiberglass reinforced plastic		
	Installation tolerance	Long. ± 0.1 mm		
	Strength per connector without dowel (N)			
	In HPL 12 mm	Tensile strength (N)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

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

Cabineo insert M6

For repeated assembly and disassembly without loss of strength

Features




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



Articles

Cabineo insertion tool is included in delivery for the inserts.


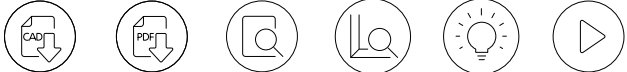
	Cabineo insert M6 × 12.3	Art. No.
	100 pieces	186370
	500 pieces	186371

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

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

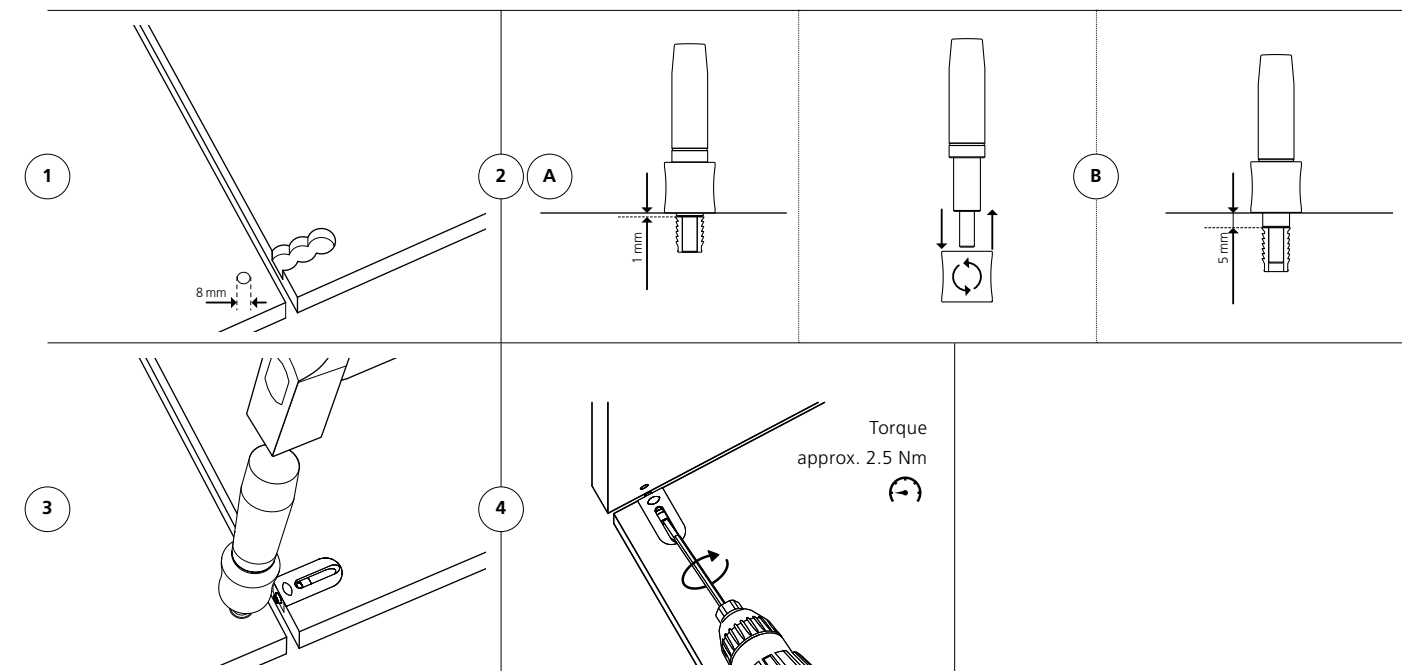
www.lamello

Experience the connector live and receive comprehensive product information!

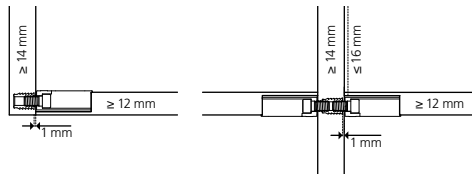



* Original size

Function



Technical data

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

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

Advantages of Cabineo

Simple, fast and strong

1. Advantages in production

Time-saving in production



- Optimised process due to surface machining; no edge drilling necessary
- Only one tool change from 5 mm to 15 mm drill; no tool change for the dowel hole drill necessary
- No dowel holes means less drill holes per connector
- Shallow element of 10 mm allows for panels from 12 mm thickness

2. Advantages in transportation

Time-saving in transportation



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

3. Advantages in assembly

Time-saving in the assembly



- One-piece connector without dowels; no pre-assembly of screws or dowels in the side panels necessary
- Easy positioning of the Cabineo in the corresponding hole due to the protruding screw
- Fast assembly with a cordless drill
- Installation of fixed shelves or vertical dividers in an already assembled unit

Cabineo compared with cam and dowel

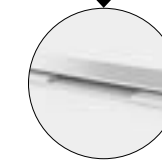
Manufacturing process with Cabineo



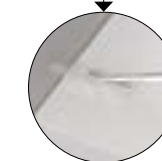
4 surface processing steps
1 tool change



Fit Cabineo into top or bottom shelf



Flat pack the workpieces

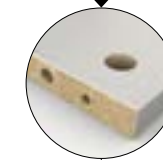


Assemble using a cordless drill

Manufacturing process with cam



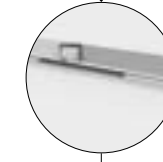
3 surface processing steps
2 tool changes



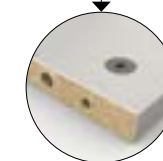
2 edge drill holes
1 tool change



Prepare fitting bag



Flat pack the workpieces



Insert cam into shelf



Install the screw in the side



Insert dowel into the side

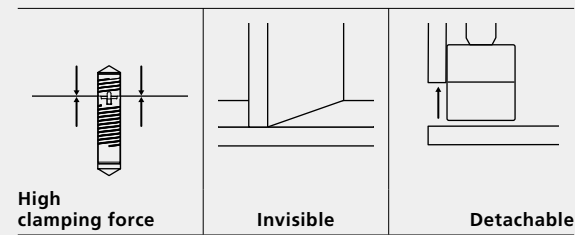


Assemble using a screwdriver

Invis Mx2

Magnet-driven connecting fittings

Features



Invis Mx2 is a unique, magnet-driven connection for the highest demands on aesthetics, stability and productivity. With no visible openings, Invis Mx2 is connected and disconnected quickly again and again, using its magnetic drive.

Invis Mx2 connectors are screwed into the 12 mm drill holes in the panel. Using the MiniMag with a cordless drill, the connection closes and creates a clamping force of up to 250 kg per connector.

Ideal for high gloss painted furniture, molded workpieces, stairs, etc.

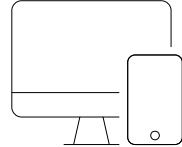
Articles



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






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


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

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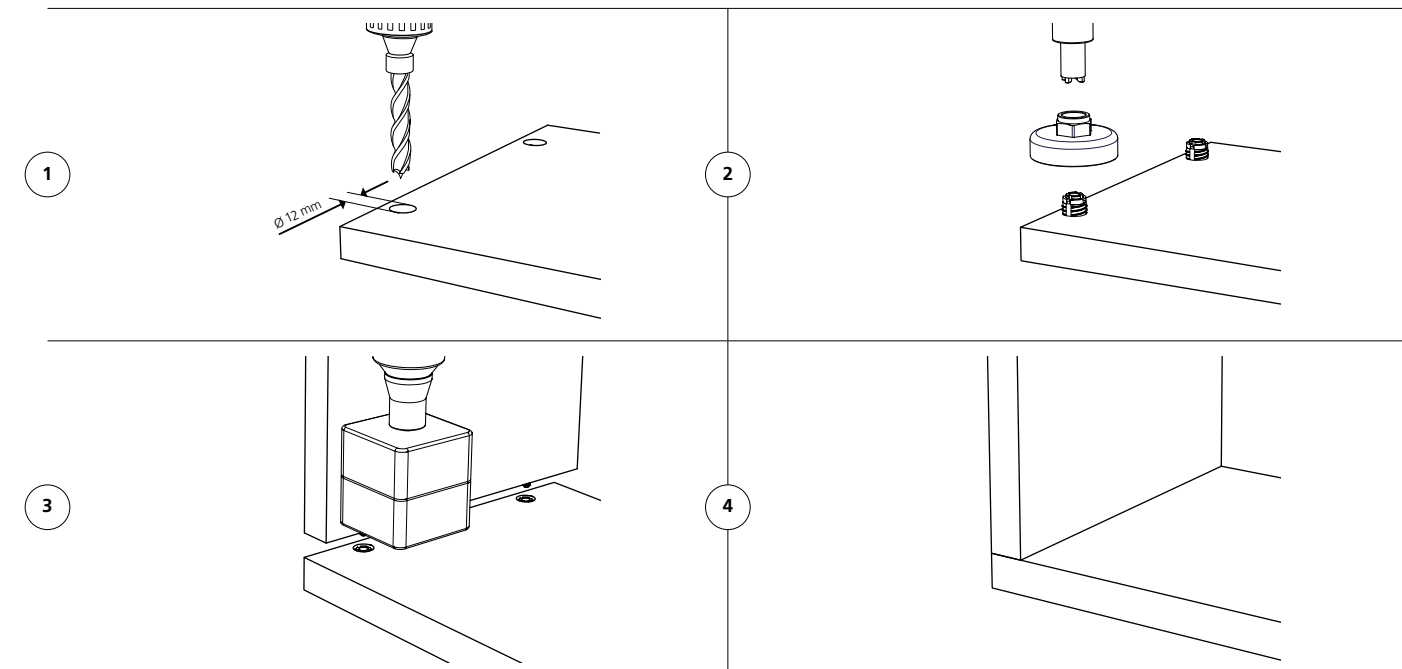
 Experience the connector live and receive comprehensive product information!



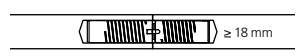
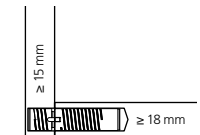
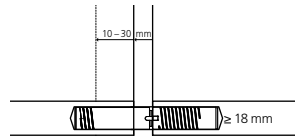
   



Function



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	Must be 1200–1500 rpm ⁻¹
		Material housing	Zinc
		Installation tolerance	Long. ± 0.1 mm
		Clamping force per connector	250 kg ¹
		Tensile strength (N)	Connector sets with stud
		Up to	14 mm 30 mm
			MDF 1500 N ¹ 4000 N ¹
			Particle board 600 N ¹ 1600 N ¹
			Beech 2000 N ¹ 4000 N ¹
			Spruce 1000 N ¹ 2000 N ¹
		Material range	Particle board, MDF, plywood, softwood, hardwood etc.

See PAGE 136–137 for technical specifications | ¹ See comment on load limits on PAGE 183

Articles



Invis Mx2 connector 35 mm

20 pieces

Art. No.

6012317



Invis Mx2 stud 14 mm

20 pieces

Art. No.

6012312



Invis Mx2 stud 30 mm

20 pieces

Art. No.

6012309



Invis Mx2 centre wall stud 10-30 mm

10 pieces

Art. No.

6012208



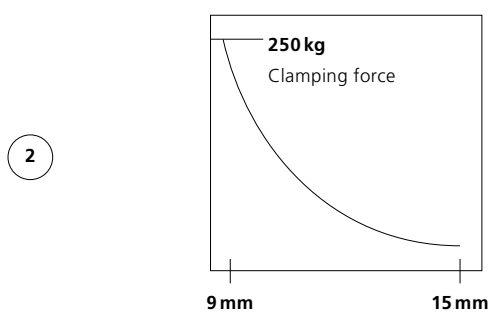
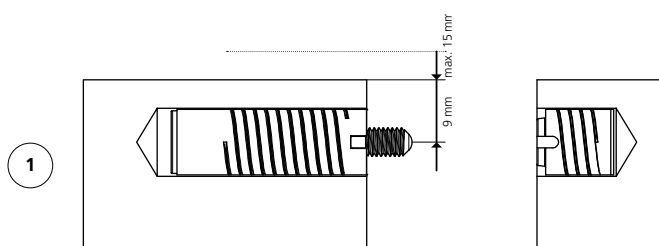
Invis Mx2 MiniMag

Incl. screw bit

Art. No.

6100301

Function



Small distance from the edge for high clamping force

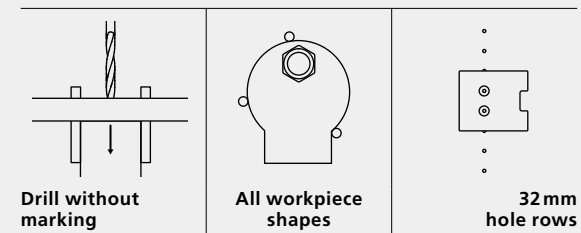


Rasto drill jig

Universal drill jig without measuring or marking



Features



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

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

Articles

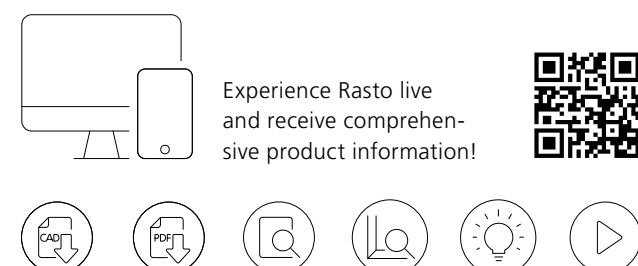


Rasto Duo set Art.Nr. **126002**
 In a systainer: 2 transparent perforated plates,
 8 drill bushings, 2 × Ø 5, 8, 10, 12 mm,
 3 wood drill bits Ø 5, 8, 12 mm, 6 positioning bolts,
 2 fastening screws, 1 connection rod,
 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

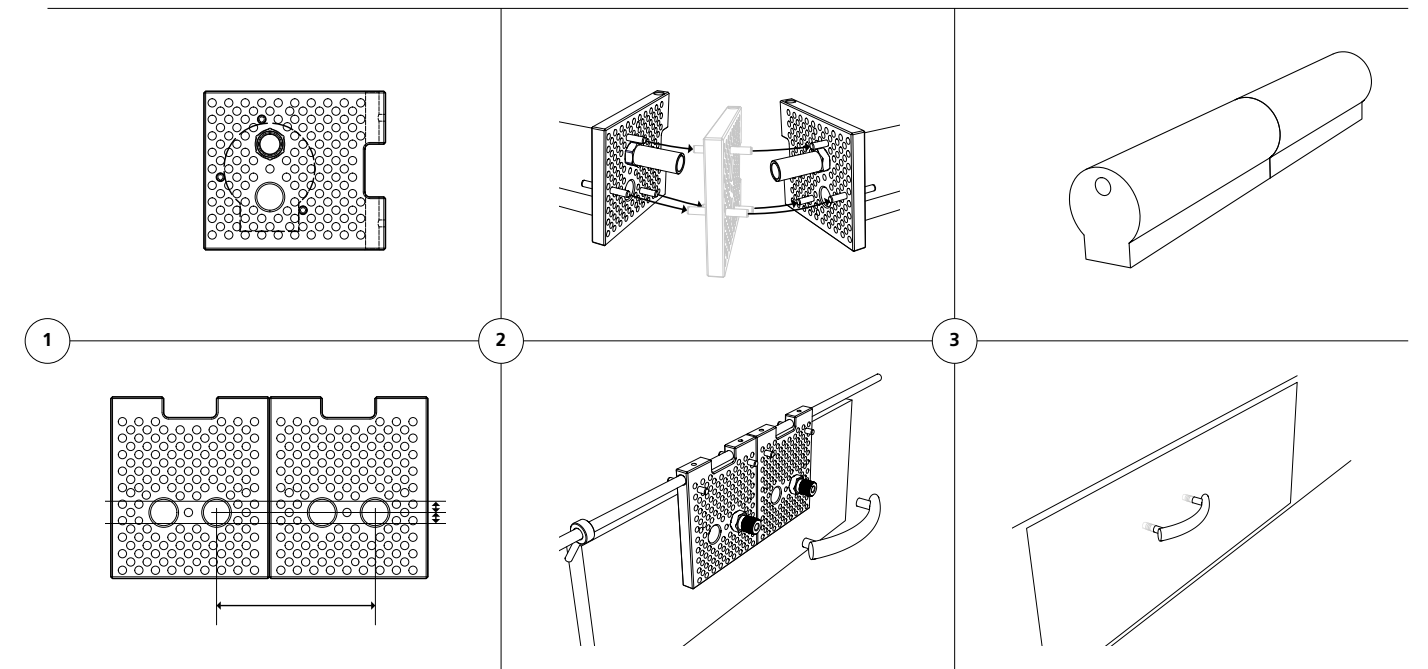
Rasto Basic set Art.Nr. **126005**
 In a cardboard box: 1 transparent perforated plate,
 4 drill bushings Ø 5, 8, 10, 12 mm,
 3 positioning bolts, 1 fastening screw

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

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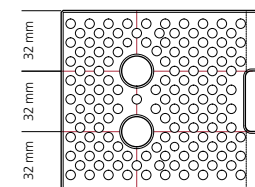


Function



Technical data

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



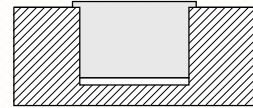
Technical information

Machining Cabineo

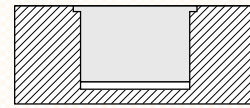
All details in mm

Installation options

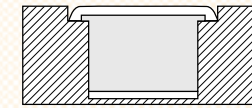
On the surface



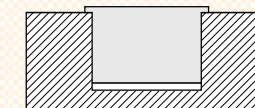
Flush with the surface



Flush cover cap

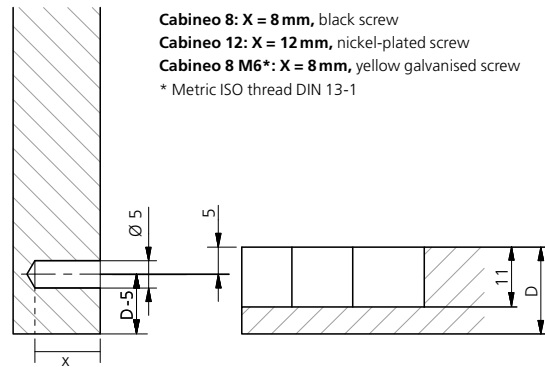


HPL on the surface

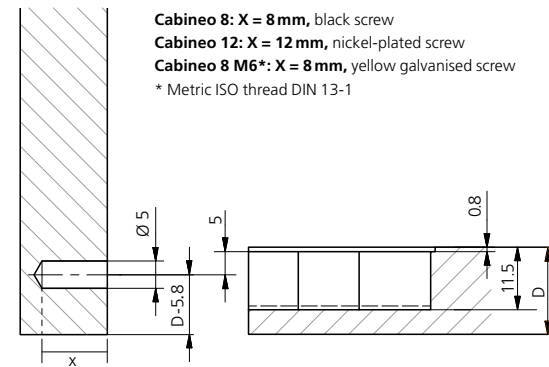


Machining options

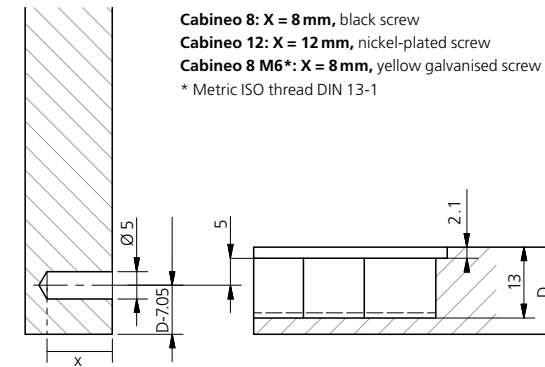
Cabineo 8: X = 8 mm, black screw
Cabineo 12: X = 12 mm, nickel-plated screw
Cabineo 8 M6*: X = 8 mm, yellow galvanised screw
 * Metric ISO thread DIN 13-1



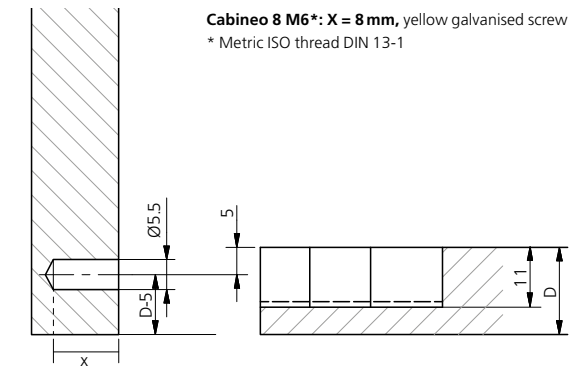
Cabineo 8: X = 8 mm, black screw
Cabineo 12: X = 12 mm, nickel-plated screw
Cabineo 8 M6*: X = 8 mm, yellow galvanised screw
 * Metric ISO thread DIN 13-1



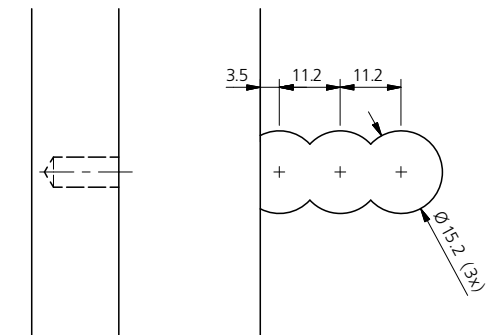
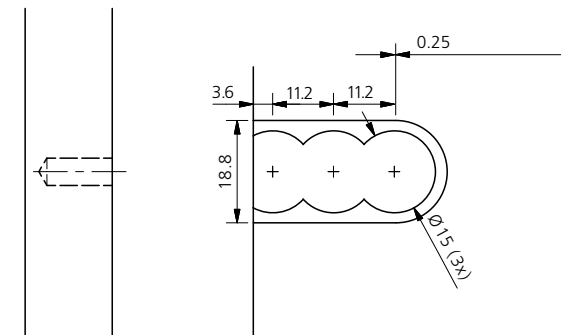
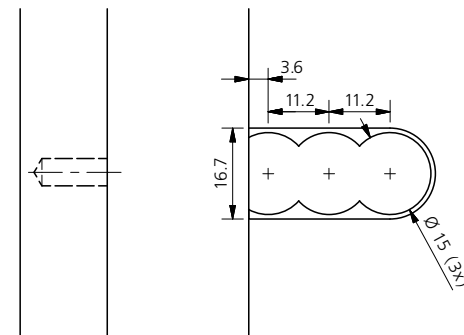
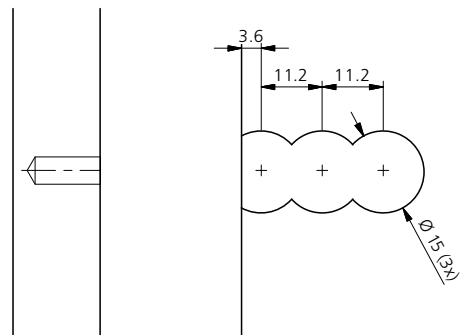
Cabineo 8: X = 8 mm, black screw
Cabineo 12: X = 12 mm, nickel-plated screw
Cabineo 8 M6*: X = 8 mm, yellow galvanised screw
 * Metric ISO thread DIN 13-1



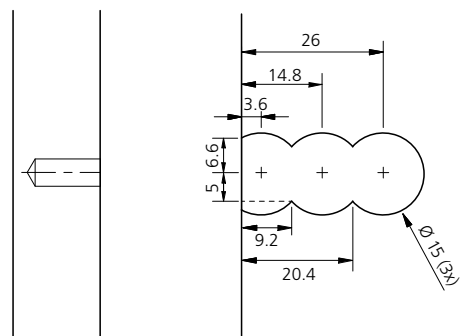
Cabineo 8 M6*: X = 8 mm, yellow galvanised screw
 * Metric ISO thread DIN 13-1



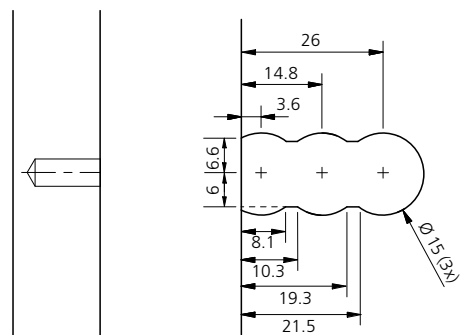
Drill 15 mm



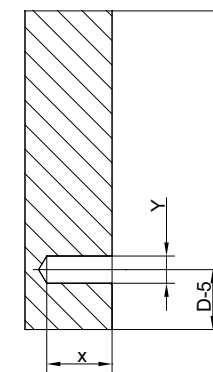
Cutter Ø 10 mm



Cutter Ø 12 mm



Machining Cabineo Insert



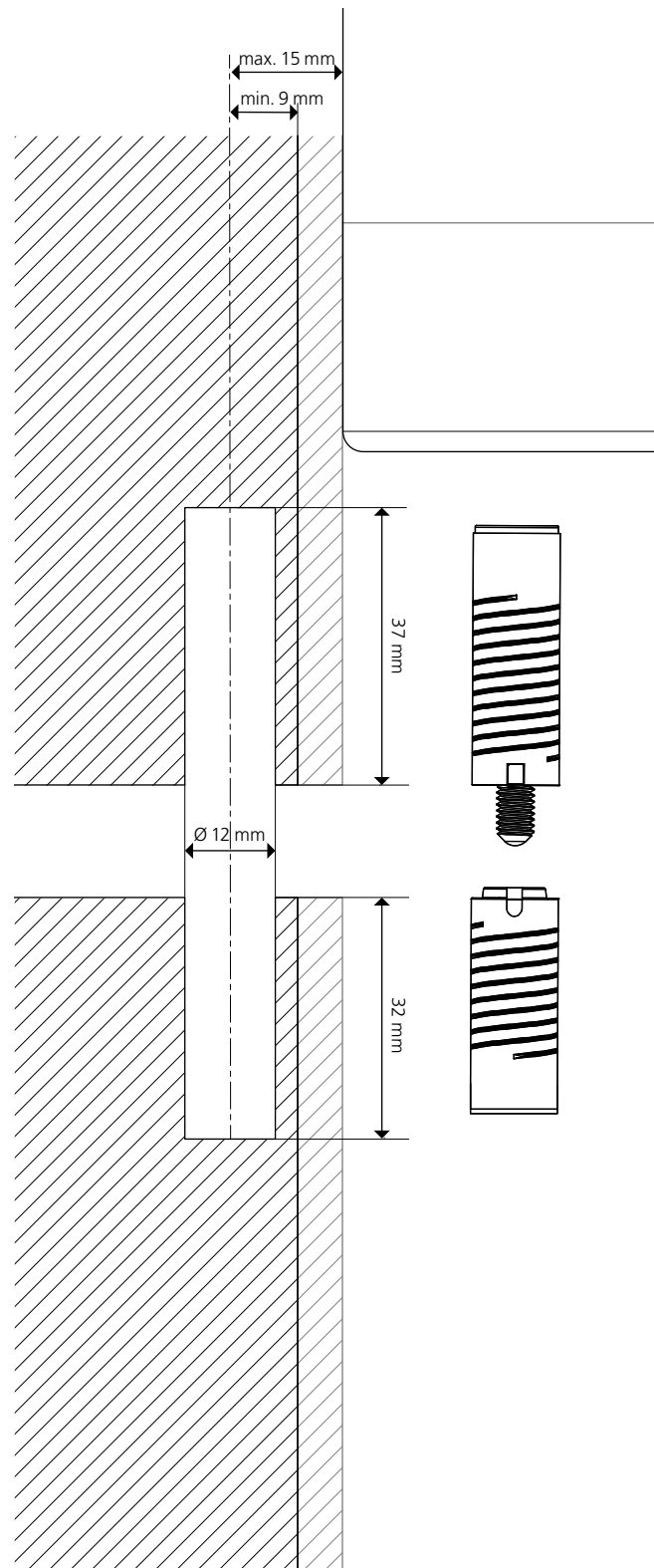
	X [mm]	Y = Ø [mm]
Cabineo 8 M6*	8	5
Insert M6 × 12.3	13.5	8
Insert M6 × 15.3	16.5	8

* Metric ISO thread DIN 13-1

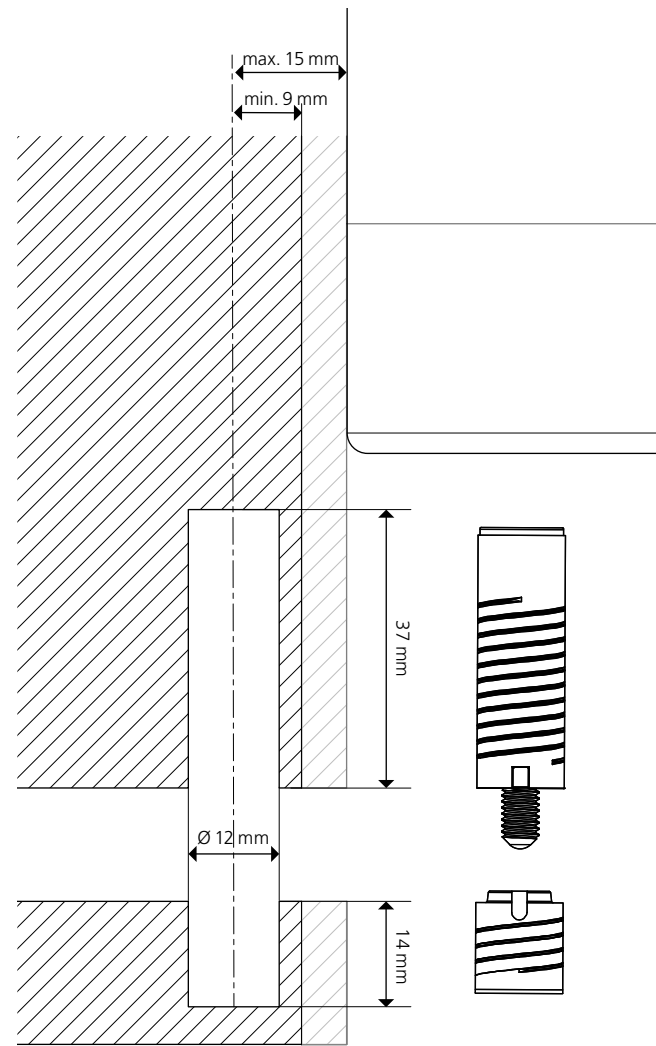
Technical information

Machining Invis Mx2

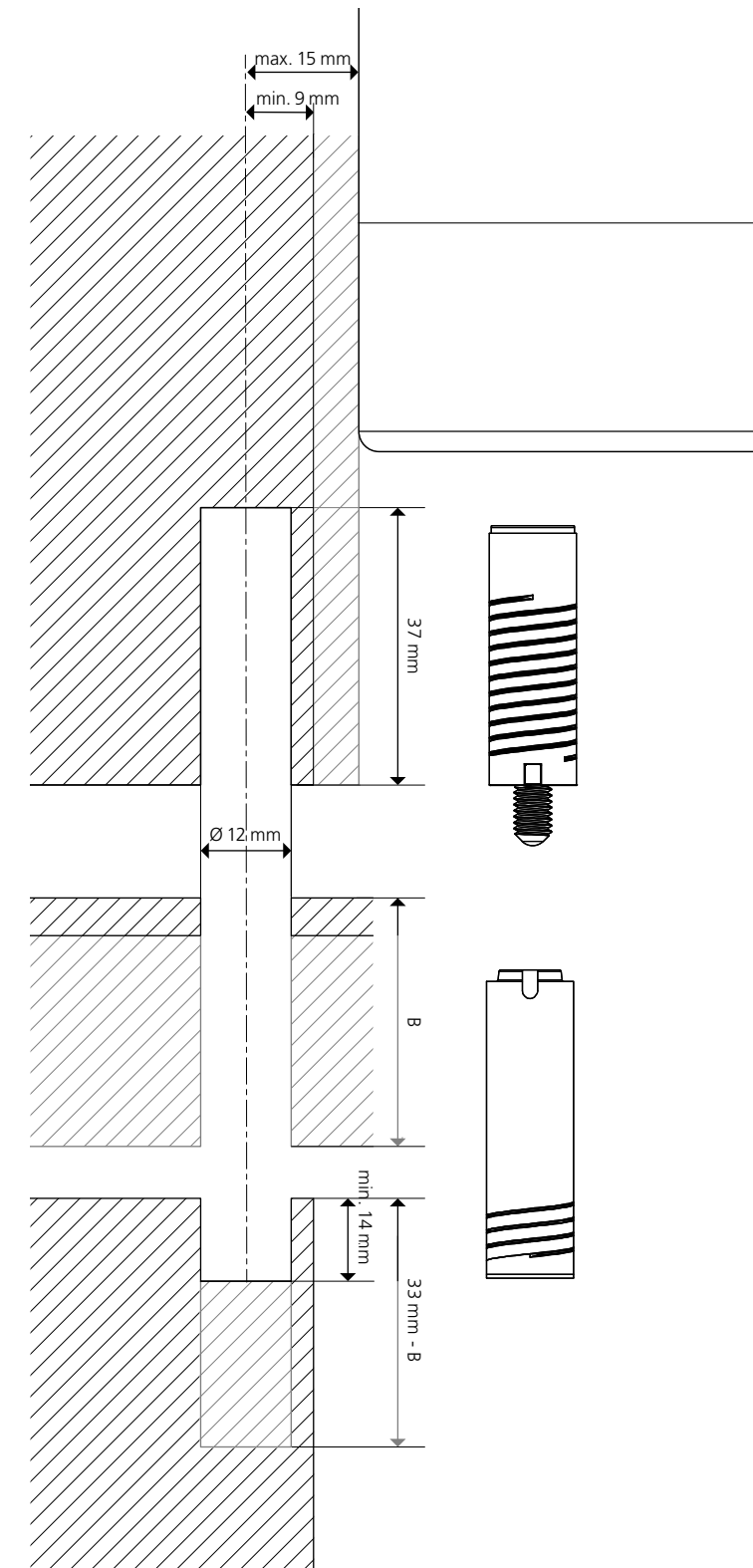
Invis Mx2 stud 30 mm



Invis Mx2 stud 14 mm



Invis Mx2 centre wall stud 14–30 mm











Accessories / Spare Parts

Drilling System



Cabineo

	Art. No.
Cabineo installation tool	
With handle, incl. hex bit 1/4"	256300
	Art. No.
Cabineo hex bit 1/4"	276312
	Art. No.
Cabineo hex bit 1/4" GL 80 mm	276308
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	276309
	Art. No.
Cabineo drill/cutter	
Cabineo drill Ø 15 mm with short centering point	136312
	Art. No.
Cabineo cutter Ø 10 mm	136310
	Art. No.
Cabineo cutter Ø 12 mm	136311
	Art. No.
Cabineo drills for aggregate Ø 15 mm	136314
RH carbide tipped (right hand rotation)	
	Art. No.
Cabineo drills for aggregate Ø 15 mm	136315
LH carbide tipped (left hand rotation)	









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



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

Invis Mx2

	Art. No.
Invis Mx2 connector set	
With 14 mm Invis Mx2 stud, 20 pairs	6012300
	Art. No.
Invis Mx2 connector set	
With 30 mm Invis Mx2 stud, 20 pairs	6012301
	Art. No.
Invis Mx2 connector 35 mm	
20 pieces	6012317
	Art. No.
Invis Mx2 stud 14 mm	
20 pieces	6012312
	Art. No.
Invis Mx2 stud 30 mm	
20 pieces	6012309
	Art. No.
Invis Mx2 centre wall stud 10–30 mm	
10 pieces	6012208

Accessories / Spare Parts

Drilling System



Invis Mx2



Invis Mx2 screw bit	Art. No.
1 piece	6112205



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



Invis Mx2 flexible shaft	Art. No.
1 piece	6100204



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



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

Rasto



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



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



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



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



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



Invis Mx2 spacer	Art. No.
For Rasto	6112331



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

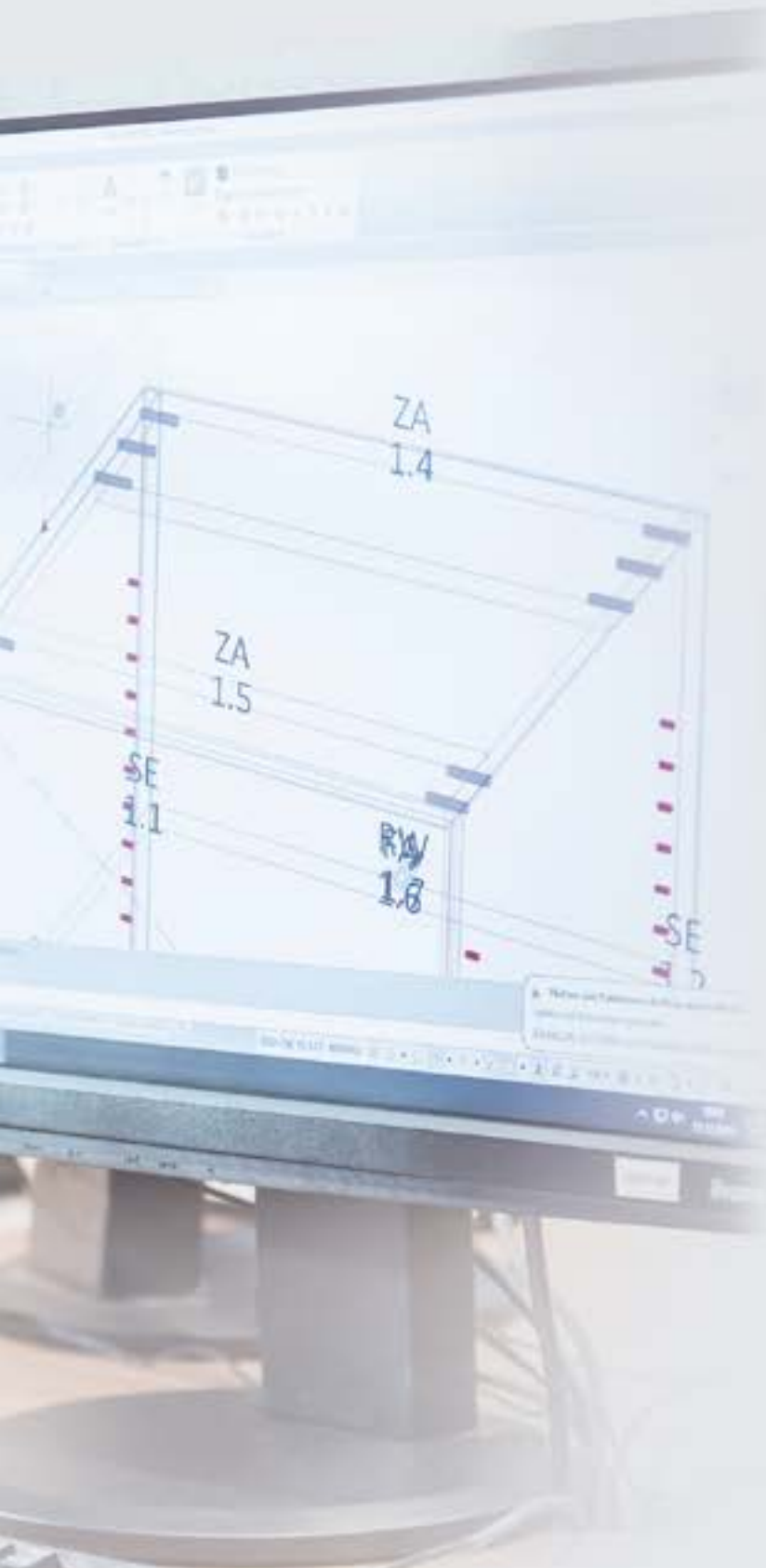


Rasto perforated plate	Art. No.
1 piece	6160000

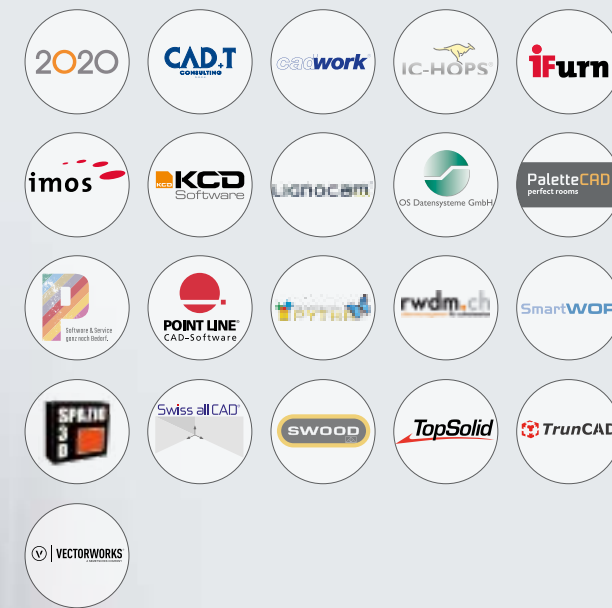
Networked production

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

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



CAD/ERP/CAM software



CNC machines/Aggregates/CNC tools

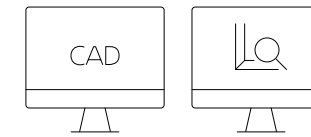




« If a product is automated – or can be controlled digitally – it will be used. »

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

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



CAD/ERP/Configurator software

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

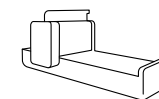
The degree of integration of the data and the parameterised position rules influence planning efficiency.



CAM software

- Software for generating CNC programming data
- Post-processor

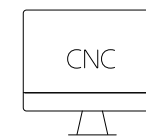
Data transfer between CAD and CNC, and in particular the control of the macros/component, must be individually coordinated.



CNC machine

- Machine with 3/4/5-axis

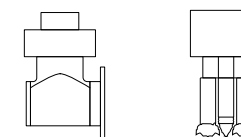
The number of axes and equipment options influence the processing possibilities



CNC software

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

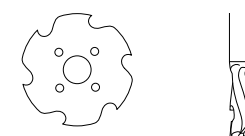
The macro/component determines/affects the processing possibilities



Suitable aggregate

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

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



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

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

Networked production

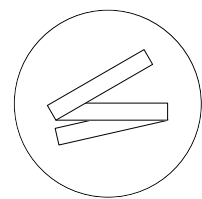
Overview of the production process

Enabled by Lamello planning and machining partners

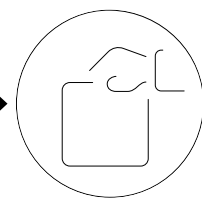


Sequence

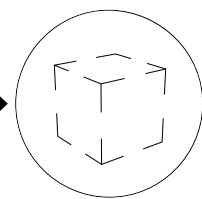
1 Measurements	2 The proposal phase	3 Planning with CAD/configurator/ERP	4 The bill of material	5 Procurement	6 CAM interface CAD/CAM system CNC programming data	7 CNC machining	8 Final processing	9 Dispatch/assembly
				Lamello sales partners				



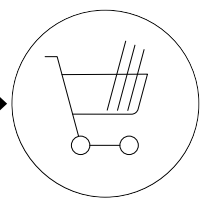
The room or the object to be machined can be quickly and efficiently measured on site using a room scanner and imported directly into CAD. Even in difficult room situations, without scaffolding, ladders or additional assistants.



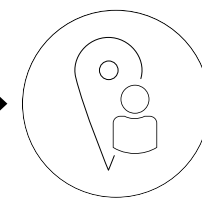
The customer data is recorded, and the calculation and quote are prepared in the industry software, CRM or ERP. If necessary, photo-realistic drawing can also be created for the customer in order to create a life-like impression of the end product.



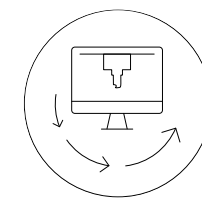
Here, the furniture is drawn with all individual parts, connectors and fittings or generated automatically using the configurator. In this phase, the planner can now select the desired Lamello connectors, which are placed manually or automatically in the workpieces according to parametric rules.
Planning 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



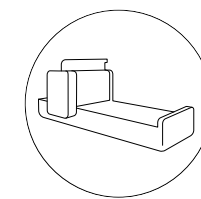
The parts list can now be generated from the finished CAD file or the data can be imported into the ERP software, where the parts and fitting list can be issued automatically. The material order can now be triggered manually or automatically.



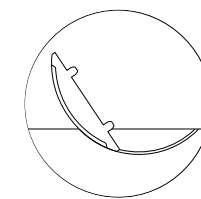
With an online connection to specialist retailers, both digital data exchange and procurement can be automated. For example, this allows the current prices to be queried, availability checked and picking implemented.



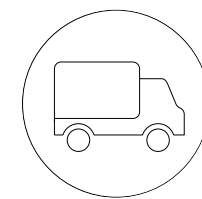
One of the most important **«interfaces»** is the transfer of planning data to production. Here, a seamless connection should be established between design, programming, simulation and subsequent production on the CNC machines. The 3D design data can also be used to enter the production information,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



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



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



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

Service overview

Lamello's planning and machining partners



Planning partners CAD/ERP/Configurator/CAM software

Company	2020	BRAINSOFTWARE	BormInformatik	CAD+T	cadwork	direkt CNC-system	HEXAGON	iFurn
Product name	2020 CAD	2020 CAD	SPAZIO3D PROF. + -ENTERP. PLUS SPAZIO3D JOINERY + INDUSTRY 4.0	Pointline CAD	BormBusiness/EVO	Design/Engineer	ERP/Konfigurator	CNC
Offer / Material management / Ordering								
Visualisation / Planning / Construction / Parts list								
CNC programming data								

Company	imos	KCD Software	LIGNOCAM	OSD Datensysteme	PaletteCAD	PinCalc	PHYTA	Swiss-all-CAD	TopSolid	TrunCAD	extragroupe	rwdm.ch	Tibek	Eftcad
Product name	IX CAD 2021	IX CAM 2021	KCD Software	LIGNOCAM	ERP/PPS	CAD/CAM	Palette CAD	Palette CAM	ERP P123 Corpora	CAD/CAM P305	3D CAD	AutoCAD/ZWCAD/BricsCAD	Matrizen – Excel – CAM	Matrizen – ERP – Manager
Offer / Material management / Ordering														
Visualisation / Planning / Construction / Parts list														
CNC programming data														

Service overview

Lamello's planning and machining partners



Machining partner CNC machines/Aggregates/CNC tools

Company	Biesse	Felder	GANNOMAT	HOLZ-HER	Holzfraese	Homag	KOMO	IMA	INFOTEC	Masterwood	SCM, Morbidelli	Vitap	Atemag	Benz Tools	GROTHEFELD	HSD	Leitz	Leuco	Oertli	Utensiltecnica	
Product name	CNC machines bSolid NC Hops bCabinet	CNC machines F4Integrate Wood Flash	CNC machines GANNOMAT Editor	CNC machines NC Hops CabinetControl NEO	3D-Master CNC machines SmartWOP	CNC machines WoodWOP cabinetCreator	CNC machines	CNC machines IMAWOP	CNC machines	CNC machines Masterwork/Master 3D	CNC machines Maestro CNC Xylog Plus	CNC machines Software TPA	Various	Various	Various	Various	Various	Various	Various	Various	Various
Offer / Material management / Ordering	ERP software																				
	Interface with procurement																				
	Interface with CAD																				
Visualisation / Planning / Construction / Parts list	Interface with ERP																				
	Data cloud for CAD data																				
	CAD 2D software																				
	CAD 3D software																				
	Configurator																				
CNC programming data	Interface with CNC																				
	CAD/CAM software																				
	WOP programming software																				
	ISO programming software																				
CNC machining	CNC with consoles																				
	CNC vertical/horizontal (compact)																				
	CNC nesting																				
	Aggregates																				
	CNC tools																				

P-System with CNC

Joining methods and requirements for
CNC machines/machining options



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

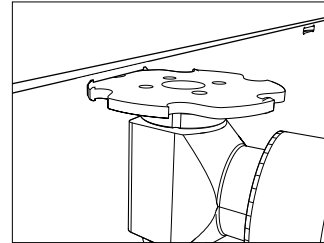
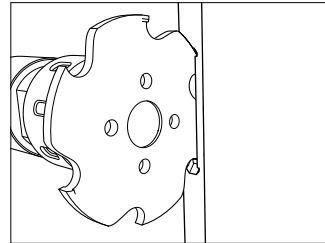


Detailed information on machining	Detailed information on machining	Possible setup of aggregates and tools	Comments	
			Integrated CNC Z-axis with drill (5/6 mm) or with collet chuck for clamping Ø 10 mm and drill 131556	P-System CNC drill bit on PAGE 162
			Saw blade clamp Ø 40/DTK 52 mm and cutter 132143 or with collet chuck and cutter arbor	You can find dimensions for cutters and clamping Ø and lengths of cutter arbors on PAGE 162/163
 			Angle aggregate – One to four spindle angle aggregates – Floating trimming unit for P-System – Corner notching aggregate – Aggregate for door locks	A unit overview can be found on the Lamello website: www.lamello.com under planning and machining partners
			Manually adjustable swivelling aggregates Information: Several tool changes required for angle cuts, drilling and P-System grooves	Note: The cutting depth in the centre of the surface may be restricted depending on the model. Tip: For a mitre, the drill hole could be made with the manual drill
 			Automatically adjustable swivelling aggregates with automatic tool changer (FLEX5+C/5-MOTION PLUS/Flex5+C, from year of manufacture 2015) – Tool holder WFC 40-25 clamping Ø 10 mm for drill – Drill shaft Ø 10 mm, tool protrusion max. 50 mm – Tool holder WFC 40-25 with flange and cutter 132143	Note: In the centre of the surface, the profile groove depth is limited to 10 mm
			Shrink chuck for clamping Ø 12×40 mm and shaft tool 131342 or collet chuck for clamping Ø 12×40 mm and shaft tool 131342	P-System CNC shaft tool cutter on PAGE 163 .

Positioning drill holes for the Zeta P2		Machining steps						
	<p>Positioning pin CNC for Zeta P2*, 2 pieces</p> <table border="1"> <tr> <td>Art. No.</td> <td>251048</td> </tr> <tr> <td>Ø 5 mm</td> <td></td> </tr> <tr> <td>Ø 8 mm</td> <td>251066</td> </tr> </table>	Art. No.	251048	Ø 5 mm		Ø 8 mm	251066	
Art. No.	251048							
Ø 5 mm								
Ø 8 mm	251066							
	<p>Positioning clip CNC for Zeta P2*</p> <table border="1"> <tr> <td>Art. No.</td> <td>251067</td> </tr> <tr> <td>Ø 6 mm</td> <td></td> </tr> <tr> <td>for positioning in the Clamex P access hole (6 mm)</td> <td></td> </tr> </table>	Art. No.	251067	Ø 6 mm		for positioning in the Clamex P access hole (6 mm)		
Art. No.	251067							
Ø 6 mm								
for positioning in the Clamex P access hole (6 mm)								

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 +
1x aggregate (VKNR 1549)
1x tool set (VKNR 9763)

1 · 2 · 3



HOLZHER

**EVOLUTION 7405
Connect**

1 · 2 · 3



BIESSE

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

1 · 2 · 3



BIESSE

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

1 · 2 · 3 · 4



masterwood

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

1 · 2 · 3



morbidelli

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

1 · 2 · 3



HOLZHER

Nextec 7707
1x tool set

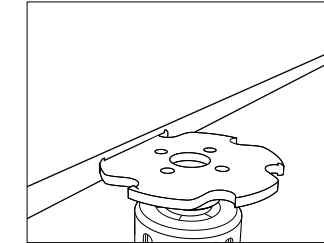
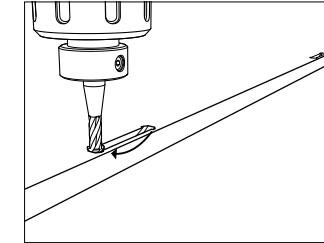
1 · 2 · 3



Vitap

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

1 · 2 · 3



FORMAT

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

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

1 · 2 · 3



GANNOMat

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

1 · 2 · 3



HOMAG

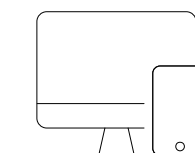
DRILLTEQ V-200
woodWOP «Lamello P-System»
component
1x P-System tool set

1 · 2 · 3

Connectivity

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

www.lamello

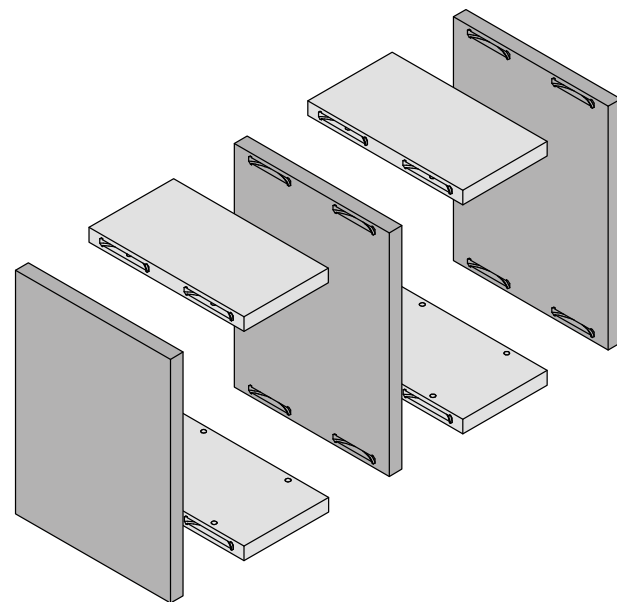


Experience CNC live and
receive comprehensive
product information!



Ideas for standardising

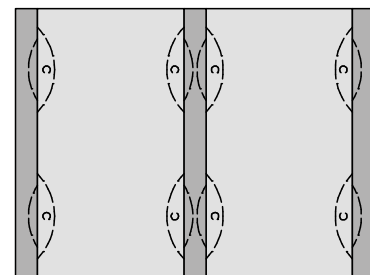
The machining on a CNC machine



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

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

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



Art. No.

Clamex P-14 CNC	
2000 pieces sorted element with lever	145388
Clamex P-14	
2000 pieces element with lever	145338
Clamex P-14/10 Flexus	
2000 pieces element with lever	145318
Clamex P-10	
2000 pieces element without lever	145358
Clamex P-10 Medius	
2000 pieces element without lever	145369



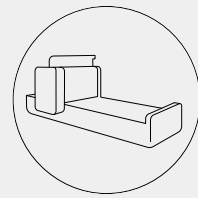
« Lamello is an asset to us because it allows us to expand our possibilities. »

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



Cabineo with CNC

Specific equipment options for CNC machines for Cabineo



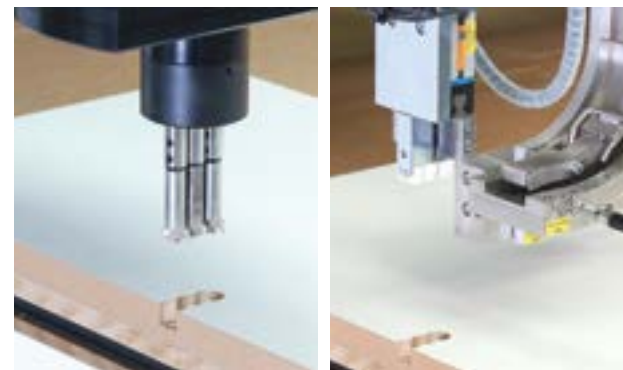
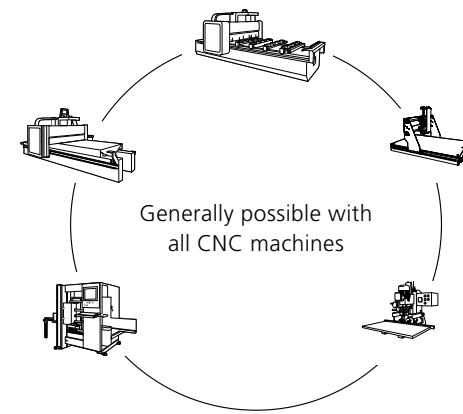
CNC machine

Homag CENTATEQ N-600

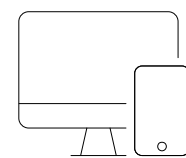
Homag has developed the unmanned installation of the Cabineo connector on its nesting CNC machine CENTATEQ N-600. First, the multi spindle aggregate from Benz creates the drill shape, consisting of 3 drill holes, in one plunge. Once the panels are cut to size, the machine will commence with the fully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

Gannomat Basica Variabel 0194

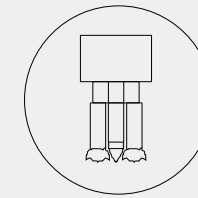
First, the 3 spindle aggregate drills the 15 mm drill holes in one plunge. Following this, the Cabineo is held by an insertion aggregate and is pressed into the board. The 5 mm holes for the Cabineo screw are drilled either with the boss hinge aggregate or the 11 spindle shelf pin aggregate.



www.lamello



Experience CNC live and receive comprehensive product information!



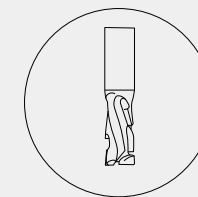
CNC tools - aggregate

Benz MULTI V3 CABINEO

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

Atemag VERTINEO Function Line

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



CNC tools

Leuco triple drill

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

Leitztriple drill

Leuco triple drill set for Cabineo aggregate.



CNC tools

For the P-System



P-System CNC tools



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



P-System groove cutter CNC DP (diamond),
Ø 100.4 x 7 mm Art. No.
Ø 100.4 x 7 x Ø 30 mm, Z3, NL 4 x Ø 6.6 x Ø 48 mm **132142**
suitable for all P-System CNC cutter arbor listed
on the right



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



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



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



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



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



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



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



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



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

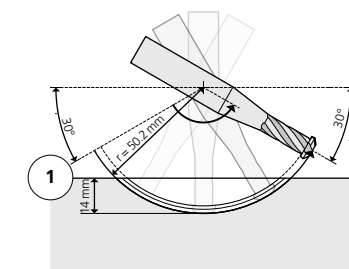


Art. No.
Shaft Ø 20 x 50 mm, L = 85 mm,
with clamping surface (2°- angle) **132155**
e.g. for aggregate for door locks
M6 x 16 mm Torx countersunk bolt, 4 pieces, **132159**
suitable for cutter arbors
Screwdriver with cross-grip, Torx T20 x 100 mm **271919**

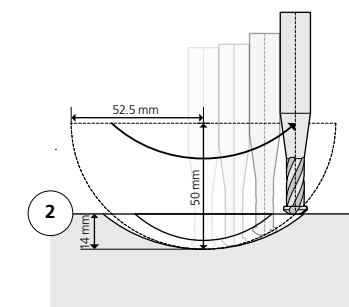


P-System CNC shaft tool cutter Art. No.
HW solid (carbide), shaft Ø 12 x 40 mm, L = 80 mm **131342**

One tool with 2 functions



P-System CNC
shaft tool cutter
with 5-axis



P-System CNC
shaft tool cutter
with 3-axis

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

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

CNC tools

For Cabineo



Drilling System

Cabineo drill/cutter

Art. No.



Cabineo drill Ø 15 mm with short centering point **136312**



Art. No.

Cabineo cutter Ø 10 mm **136310**



Art. No.

Cabineo cutter Ø 12 mm **136311**

Cabineo drills for triple aggregate



Art. No.

Cabineo drills for aggregate Ø 15 mm **136314**
RH carbide tipped (right hand rotation)



Art. No.

Cabineo drills for aggregate Ø 15 mm **136315**
LH carbide tipped (left hand rotation)



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

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

Accessories



Accessories / Spare Parts

P-System

P-System



P-System connector assortment

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



P-System connector assortment

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

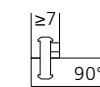
Clamex P



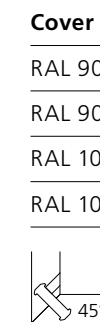
Clamex P assembly tool Art. No. **251993**
 For all angles, fast and flexible, hex 4 x 30 mm, length 290 mm



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



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



Cover cap, 500 pieces, 90° Art. No. **335362**
 RAL 9010 pure white **335363**
 RAL 9011 graphite black **335364**
 RAL 1014 ivory, pine **335365**
 RAL 1011 brown beige, beech **335365**
Cover cap, 100 pieces, 45° Art. No. **335380**
 RAL 9010 pure white **335381**
 RAL 9011 graphite black **335382**
 RAL 1014 ivory, pine **335383**
 RAL 1011 brown beige, beech **335384**
 RAL 8017 chocolate brown **335384**
 RAL 7035 light grey **335386**
 RAL 7022 umbra grey **335388**



Clamex P drill jig Art. No. **125344**
 Incl. drill, from 22.5° for all Clamex P connectors (P-10, P-14)
 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. **125345**
 Drill jig for thick workpieces 100 mm, (P-14), incl. drill



Drill Art. No. **131506**
 Spiral drill Ø 6 mm with centering point, for Clamex P drill jig
 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*

Ø 6 mm	Art. No.
	251067

for positioning in the Clamex P access hole (6 mm)

Tenso P



Tenso P-14/10 preload tool

Tool to pre-load the Tenso P	Art. No.
	145400



P-System 4 mm depth adjuster attachment for P-8

For offset installation on dividing panels	Art. No.
16 mm with Tenso P-10	145439

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

Divario P



Divario P-18 Marking jig metal with marking points

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



Divario P-18 Marking jig plastic, to mark with a pencil

Marking jig to mark the Divario holes with a pencil	Art. No.
	125511



Divario P-18 Installation tool

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



Divario P-18 Starter set

80 pairs in Systainer Size I, incl. installation tool and marking jig in metal	Art. No.
	145551

Zeta P2



Stop square for Zeta P2, Top 21, Classic X

For stabilising the biscuit joiner in the vertical position, ideal for obtuse mitre joints	Art. No.
	251044



Spacer for Zeta P2, Top 21, Classic X

5 mm, aluminium for 18 mm panels	Art. No.
	253027
2 m, plastic for 16 mm panels	Art. No.
	253023
4 mm, plastic for mitres	Art. No.
	253026



P-System groove cutter DP (diamond),

Ø 100.4 x 7 x Ø 22 mm	Art. No.
Z3, 4 NL for Zeta P2	132140



P-System groove cutter HW (carbide),

Ø 100.9 x 7 x Ø 22 mm	Art. No.
Z3, 4 NL for Zeta P2	132141

Accessories / Spare Parts

Lamello System

Lamello System



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



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



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



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



Groove cutter HW (carbide) with reversible blades,	Art. No.
Ø 100 x 4 x Ø 22 mm	
Z4 + V4, 4 screw holes without hub, with spacer for Classic X	132106



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



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



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



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

Accessories/ Spare Parts

Lamello System

Lamello System



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



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



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



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



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



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

Clamping set parts



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



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



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



Art. No.
Per meter m¹ **335000**



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











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

Accessories / Spare Parts

Drilling System



Cabineo

	Art. No.
Cabineo installation tool With handle, incl. hex bit 1/4"	256300
	Art. No.
Cabineo hex bit 1/4"	276312
	Art. No.
Cabineo hex bit 1/4" GL 80 mm	276308
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	276309
	Art. No.
Cabineo drill/cutter Cabineo drill Ø 15 mm with short centering point	136312
	Art. No.
Cabineo cutter Ø 10 mm	136310
	Art. No.
Cabineo cutter Ø 12 mm	136311
	Art. No.
Cabineo drills for aggregate Ø 15 mm RH carbide tipped (right hand rotation)	136314
	Art. No.
Cabineo drills for aggregate Ø 15 mm LH carbide tipped (left hand rotation)	136315









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



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

Invis Mx2

	Art. No.
Invis Mx2 connector set With 14 mm Invis Mx2 stud, 20 pairs	6012300
	Art. No.
Invis Mx2 connector set With 30 mm Invis Mx2 stud, 20 pairs	6012301
	Art. No.
Invis Mx2 connector 35 mm 20 pieces	6012317
	Art. No.
Invis Mx2 stud 14 mm 20 pieces	6012312
	Art. No.
Invis Mx2 stud 30 mm 20 pieces	6012309
	Art. No.
Invis Mx2 centre wall stud 10-30 mm 10 pieces	6012208

Accessories / Spare Parts

Drilling System



Invis Mx2



Invis Mx2 screw bit	Art. No.
1 piece	6112205



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



Invis Mx2 flexible shaft	Art. No.
1 piece	6100204



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



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

Rasto



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



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



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



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



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



Invis Mx2 spacer	Art. No.
For Rasto	6112331



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



Rasto perforated plate	Art. No.
1 piece	6160000

Overview of connectors

P-System

P-System groove cutter DP (diamond),
 $\text{Ø } 100.4 \times 7 \times \text{Ø } 22 \text{ mm}$ Art. No. 132140
 Z3, 4 NL for Zeta P2

P-System groove cutter HW (carbide),
 $\text{Ø } 100.9 \times 7 \times \text{Ø } 22 \text{ mm}$ Art. No. 132141
 Z3, 4 NL for Zeta P2



Overview of connectors

Lamello System

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

Groove cutter HW (carbide),
 $\text{Ø } 100 \times 4 \times \text{Ø } 22 \text{ mm}$ Art. No. 132106
 Z6 alternating teeth, without hub, with spacer for Classic X







Category	Product Name	Quantity	Art. No.	Dimensions (mm)	Installation Diagram
Clamex P Detachable	Clamex P-14	80	145334	≥ 12 , ≥ 18 , ≥ 29	
		300	145346	≥ 15 , ≥ 18 , ≥ 12	
		1000	145356	≥ 12 , ≥ 18 , ≥ 12	
	Clamex P-14/10 Medius	80	145370	≥ 12 , ≥ 18 , ≥ 16	
		300	145371	≥ 12 , ≥ 18 , ≥ 12	
		1000	145357	≥ 12 , ≥ 18 , ≥ 12	
	Clamex P-10	80	145372	≥ 12 , ≥ 15 , ≥ 19	
		300	145373	≥ 12 , ≥ 15 , ≥ 12	
		1000	145374	≥ 12 , ≥ 15 , ≥ 12	
	Clamex P-14/10 Flexus	80	145315	≥ 12 , ≥ 18 , ≥ 16	
		300	145316	≥ 12 , ≥ 18 , ≥ 12	
		1000	145317	≥ 12 , ≥ 18 , ≥ 12	
Bisco P-14	80	145301	≥ 12 , ≥ 18 , ≥ 29		
	300	145302	≥ 15 , ≥ 18 , ≥ 12		
	1000	145303	≥ 15 , ≥ 18 , ≥ 12		
Bisco P-10	80	145304	≥ 12 , ≥ 15 , ≥ 20		
	300	145305	≥ 12 , ≥ 15 , ≥ 12		
Tenso P Glued	Tenso P-14	80	145415	≥ 15 , ≥ 18 , ≥ 19	
		300	145425	≥ 12 , ≥ 18 , ≥ 12	
		1000	145435	≥ 12 , ≥ 18 , ≥ 12	
	Tenso P-14 preload clip	Pieces	Art. No.		
		300	145426		
		1000	145436		
Tenso P-10	80	145418	≥ 12 , ≥ 15 , ≥ 16		
	300	145428	≥ 12 , ≥ 15 , ≥ 12		
	1000	145438	≥ 12 , ≥ 15 , ≥ 12		
Divario P Inserted	Divario P-18	80	145550	≥ 12 , ≥ 18	
		300	145560	≥ 12 , ≥ 18	
		1000	145570	≥ 12 , ≥ 12	


Category	Product Name	Quantity	Art. No.	Dimensions (mm)	Installation Diagram
Detachable	Original wooden biscuit 20	1000	144020	≥ 13 , ≥ 12	
				≥ 12 , ≥ 12	
				≥ 12 , ≥ 12	
	Original wooden biscuit 10	1000	144010	≥ 11 , ≥ 10	
				≥ 10 , ≥ 10	
	Original wooden biscuit 0	1000	144000	≥ 9 , ≥ 9	
	Original wooden biscuit H9	1000	144009	≥ 8 , ≥ 8	
C20	250	145010	≥ 14 , ≥ 13		
C10	250	145012	≥ 11 , ≥ 12		
Glued	Clamex S-18	Pairs	Art. No.		
		18	145231	≥ 12 , ≥ 18	
		80	145236	≥ 16 , ≥ 18	
		300	145241	≥ 16 , ≥ 18	
	1000	145251	≥ 16 , ≥ 18		
	Simplex	50	166101	≥ 14 , ≥ 12	
100		166100	≥ 14 , ≥ 12		
Hammered	E20-H	Pieces	Art. No.		
		80	145021	≥ 8	
		400	145026	≥ 29	
	1200	145028	≥ 29		
	E20-L	80	145022	≥ 8	
		400	145025	≥ 13	
		1200	145027	≥ 13	
K20	80	145001	≥ 14 , ≥ 14		
250	145000	≥ 14 , ≥ 14			

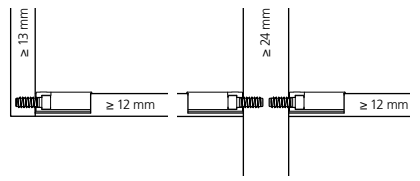

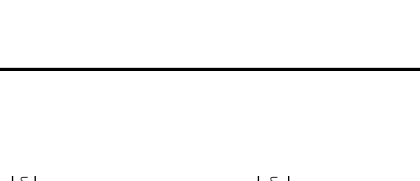

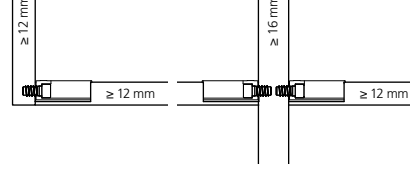

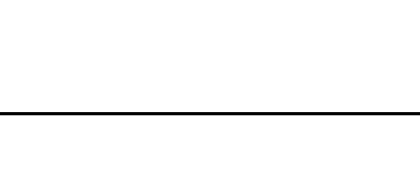

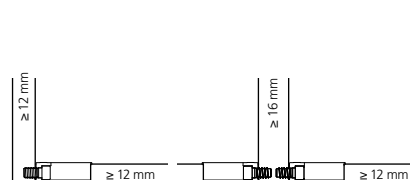

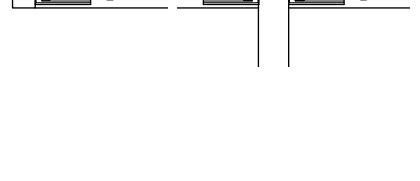

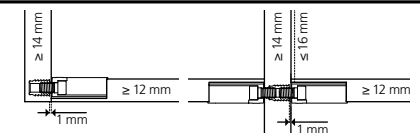

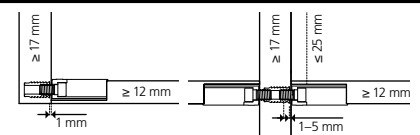
Overview of connectors

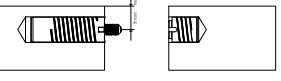

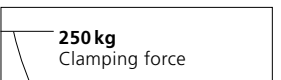

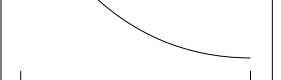

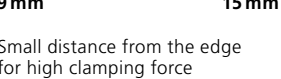




Drilling System

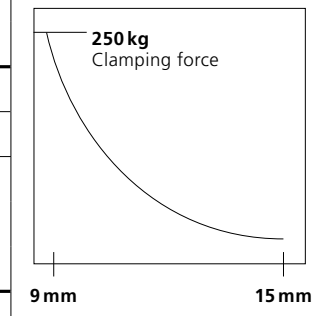
	Cabineo drill/cutter	Art. No.
	Cabineo drill Ø 15 mm with short centering point	136312
	Cabineo cutter Ø 10 mm	136310
	Cabineo cutter Ø 12 mm	136311

- 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

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

Cabineo Detachable	Cabineo 12	Pieces	Art. No.		On the surface ^{1, 2, 3}
		500	186320		
	Cabineo 12 black	500	186330		Installation options Machining options
		2000	186331		
	Cabineo 8	500	186310		Flush with the surface ^{1, 2, 3}
		2000	186311		
	Cabineo 8 black	500	186340		Installation options Machining options
		2000	186341		
	Cabineo 8 M6 metric thread M6	500	186315		Flush cover cap ^{1, 2, 3}
		2000	186316		
	Cabineo 8 M6 black metric thread M6	500	186345		Installation options Machining options
		2000	186346		
	Cabineo insert M6 x 12.3	100	186370		HPL on the surface ³
		500	186371		
	Cabineo insert M6 x 15.3 for centre panels	100	186375		Installation options Machining options
		500	186376		

Invis Mx2 Detachable	Invis Mx2 connector set with 14 mm Invis Mx2 stud	Pairs	Art. No.	
		20	6012300	
	Invis Mx2 connector set with 30 mm Invis Mx2 stud	20	6012301	
	Invis Mx2 connector 35 mm	Pieces	Art. No.	
		20	6012317	
	Invis Mx2 stud 14 mm	20	6012312	
	Invis Mx2 stud 30 mm	20	6012309	
	Invis Mx2 centre wall stud 10-30 mm	10	6012208	



Small distance from the edge for high clamping force

Disclaimer regarding load limits

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



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