Lamello

Catalogue

2023/2024 english



A strong connection.
Inspiring.



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Overview of connectors

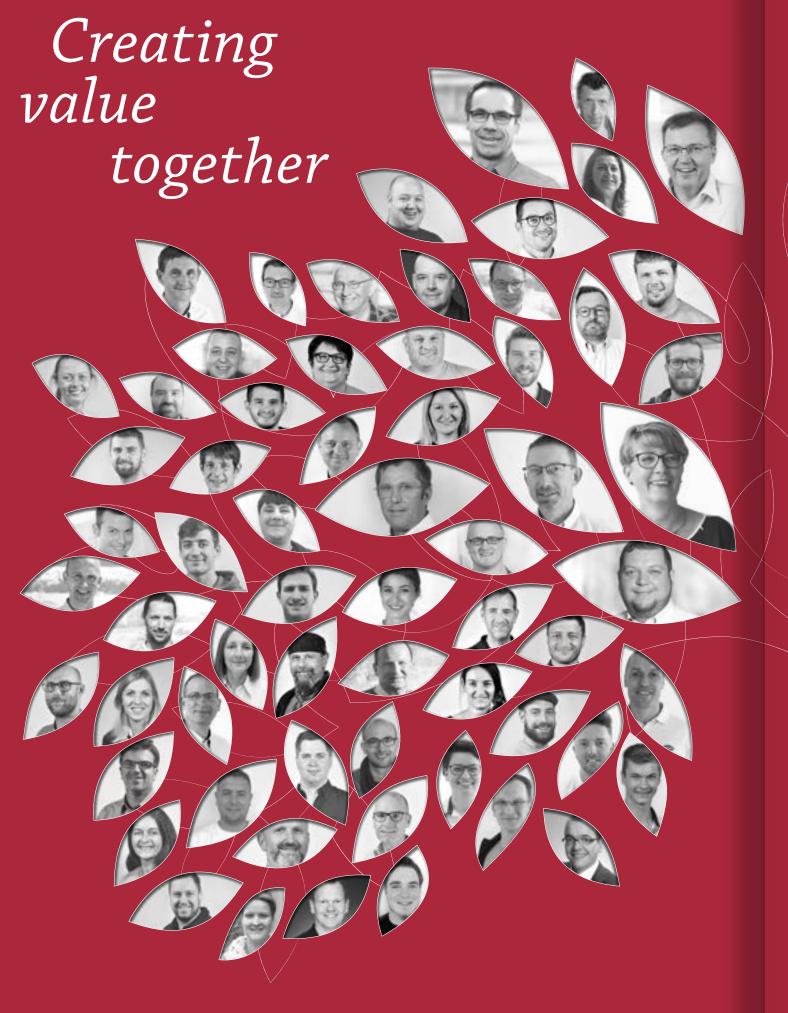
Disclaimer regarding load limits

Subject to modifications and amendments

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Accessories/Spare Parts – P-System

192 – 195







At home right across the globe.

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



Headquarter:

Switzerland

Subsidaries:

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

Markets with Lamello sales representatives:

- England
- Eastern Europe
- Spain
- Southeast Europe

.

We are here for you!

Support in person

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



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.



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

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

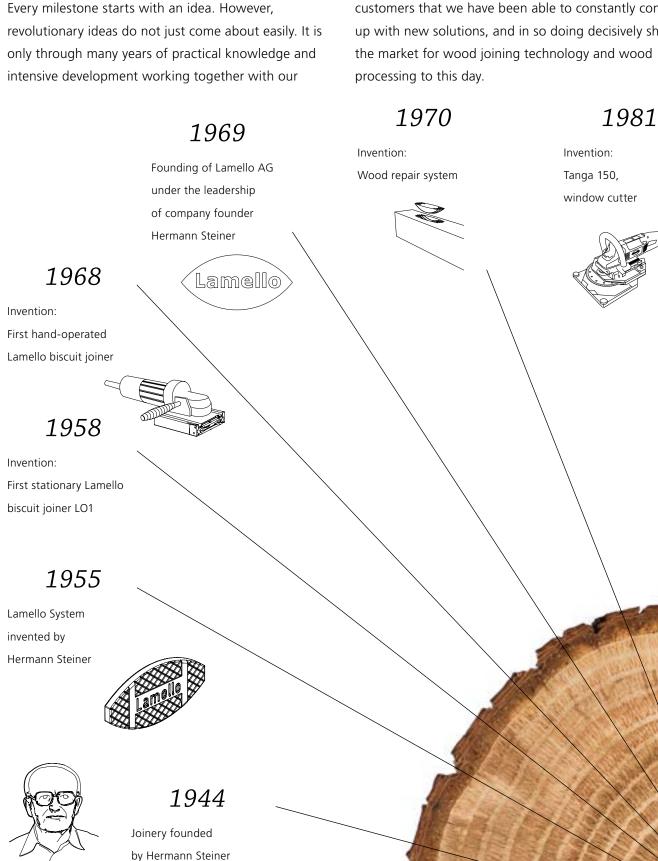
Quality is one of the cornerstones of our business, and so our From planning and design to the right tool to machine with the CNC products are designed to last. If a repair is necessary, we can offer you uncomplicated service through our certified Lamello service partners and a spare parts warranty of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

P-System configurator

Looking back. Thinking ahead.

Every milestone starts with an idea. However, only through many years of practical knowledge and

customers that we have been able to constantly come up with new solutions, and in so doing decisively shape

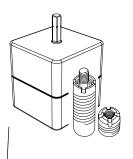


2001

Interzum award

Invention:

Invis



2009

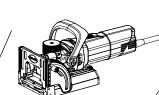
Invention: Clamex P

Interzum award



Zeta, power tool for

the P-System



2010

2013

Invention:

Tenso P-14

Interzum award



2015

Invention: Divario P-18

Interzum award



2017

Invention:

Cabineo CNC connector



Invention: Tenso P-10

Interzum Award

2020

Invention:

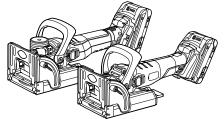
Clamex P-14/10 Flexus

Interzum award



Introduction: Zeta P2 cordless and

Classic X cordless



in Liestal

In the centre: the customer

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

Nils Ingwersen

Process Planning Manager Carpentry Mario Beck, Hamburg, Germany

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

Roger Schneider

Site Manager, Tschudin AG, Münchenstein, Switzerland

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

Hannes Kofler

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

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

Jeffrey De Smet

Self-employed carpenter, Artisanal interior furniture maker, Belgium

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

Andreas Kuhlmann

Managing Director, Adolf Kuhlmann furnishing workshops, Schwerin, Germany

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

John Hampton

Production Manager, Artichoke, Somerset, England

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

Speedmaster Managing Director, Eberstalzell, Austria

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





Joining technology with 3 systems







P-System

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

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

Lamello System

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

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

Drilling System

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

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

| 17

Our strengths





Independent & self-determined

In expanding our business, we constantly adapt to changing requirements.

This helps us secure the long-term independence of our family company—it is a key element to maintaining our financial autonomy.



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



Inventive & imaginative

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





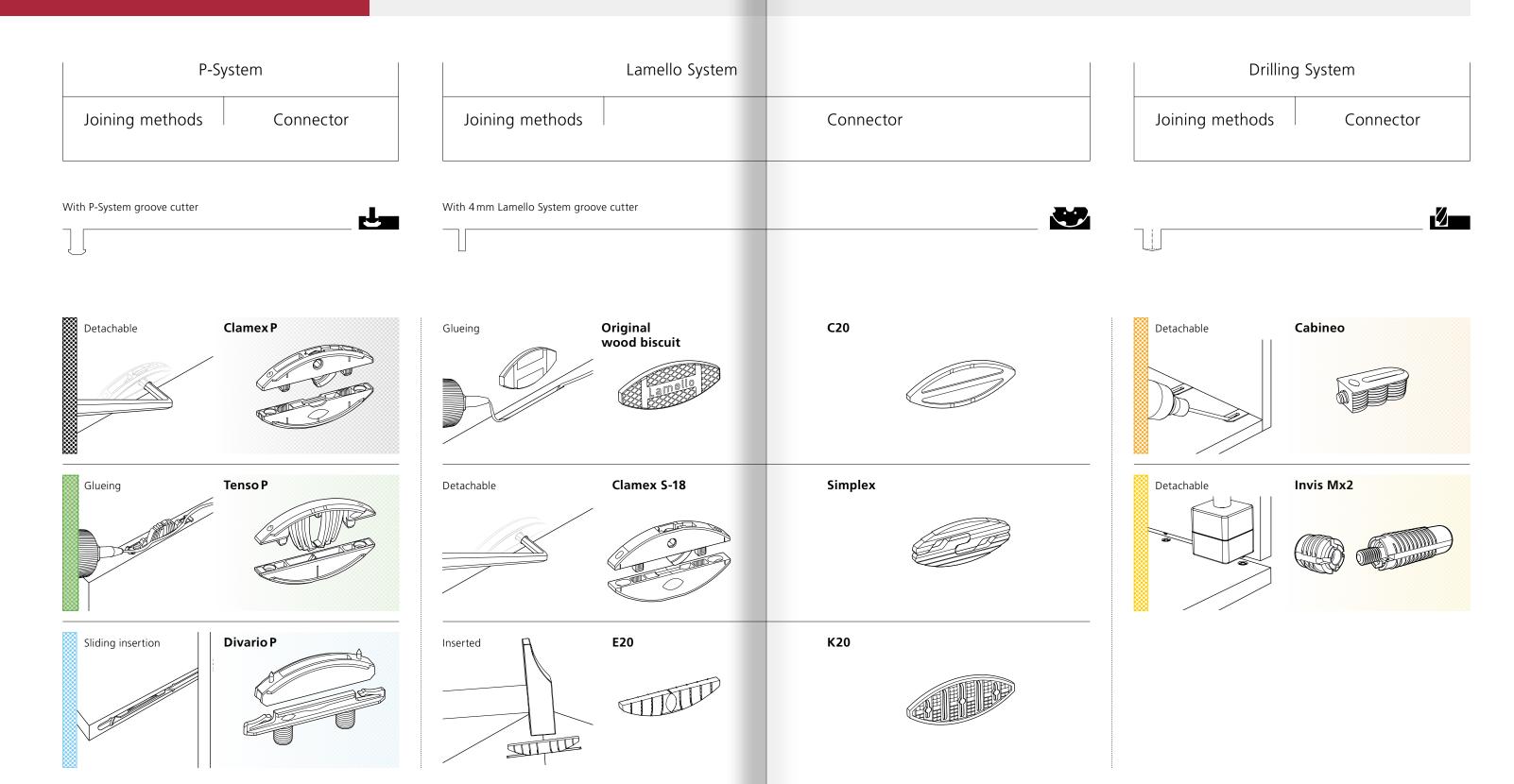
First-class & flawless

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

Systems

- P-System
- Lamello System
- Drilling System

Overview



20

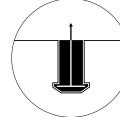


Features



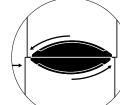
Fast installation

Inserting instead of screwing or glueing



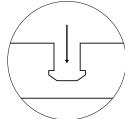
Strong

Form-locking anchorage across large surface areas



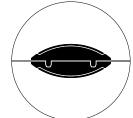
Lateral tolerance

Perfect, flush alignment of both workpieces



Shallow depth

Minimal cutting depth with maximum tensile strength



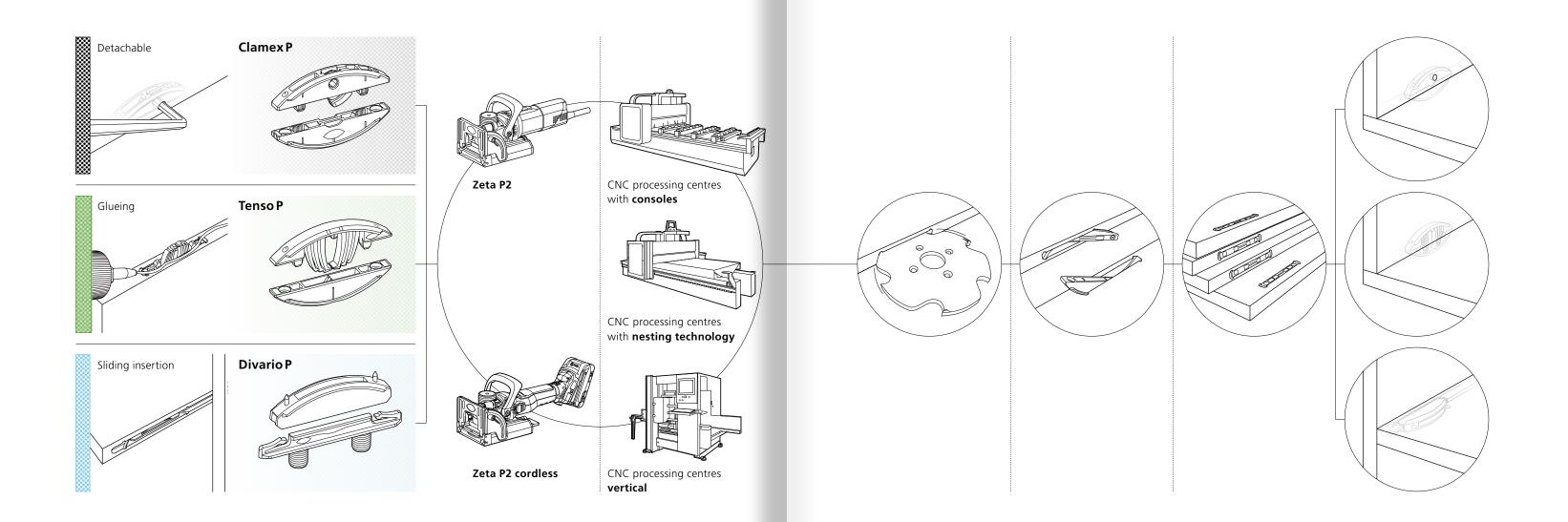
No twisting

The positioning pins prevent twisting without additional dowels

P-System

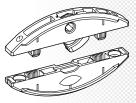
Overview

Joining methods	Connector	Machi	nes		Seque	ence	
		Power tool	CNC machines	1 Cut	2 Insert the connector	3 Deliver flat pack	4 Connect the workpieces



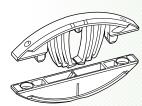
Connectors

Features overview



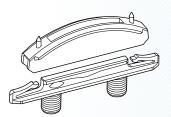
Clamex P

Detachable furniture connector



Tenso P

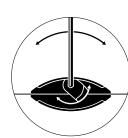
Self-clamping connector for glueing



Divario P

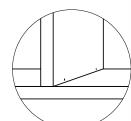
Self-clamping, invisible connector for slide insertion

Features



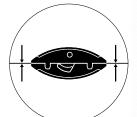
Detachable

Open the connection time and time again with the rotating lever



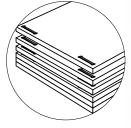
Aesthetic

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



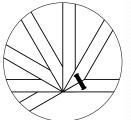
High clamping force

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



Stackable

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



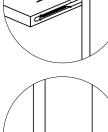
Versatile

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



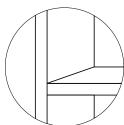
Glueing

Fixed joints of two workpieces



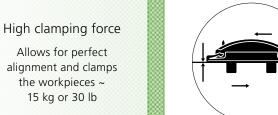
Sliding insertion

Insertion between two fixed sides or shelves via a guiding groove



Invisible

Guiding groove covers the connectors



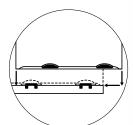
Clamped joint

No resistance while inserting until shortly before building the clamping force



Fast installation

Quick installation of the connectors without glue after transport



Assemble by sliding

Partially routed guiding groove for completely invisible furniture joints



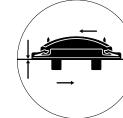
Invisible

No visible connector

Allows for perfect

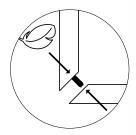
the workpieces ~

15 kg or 30 lb



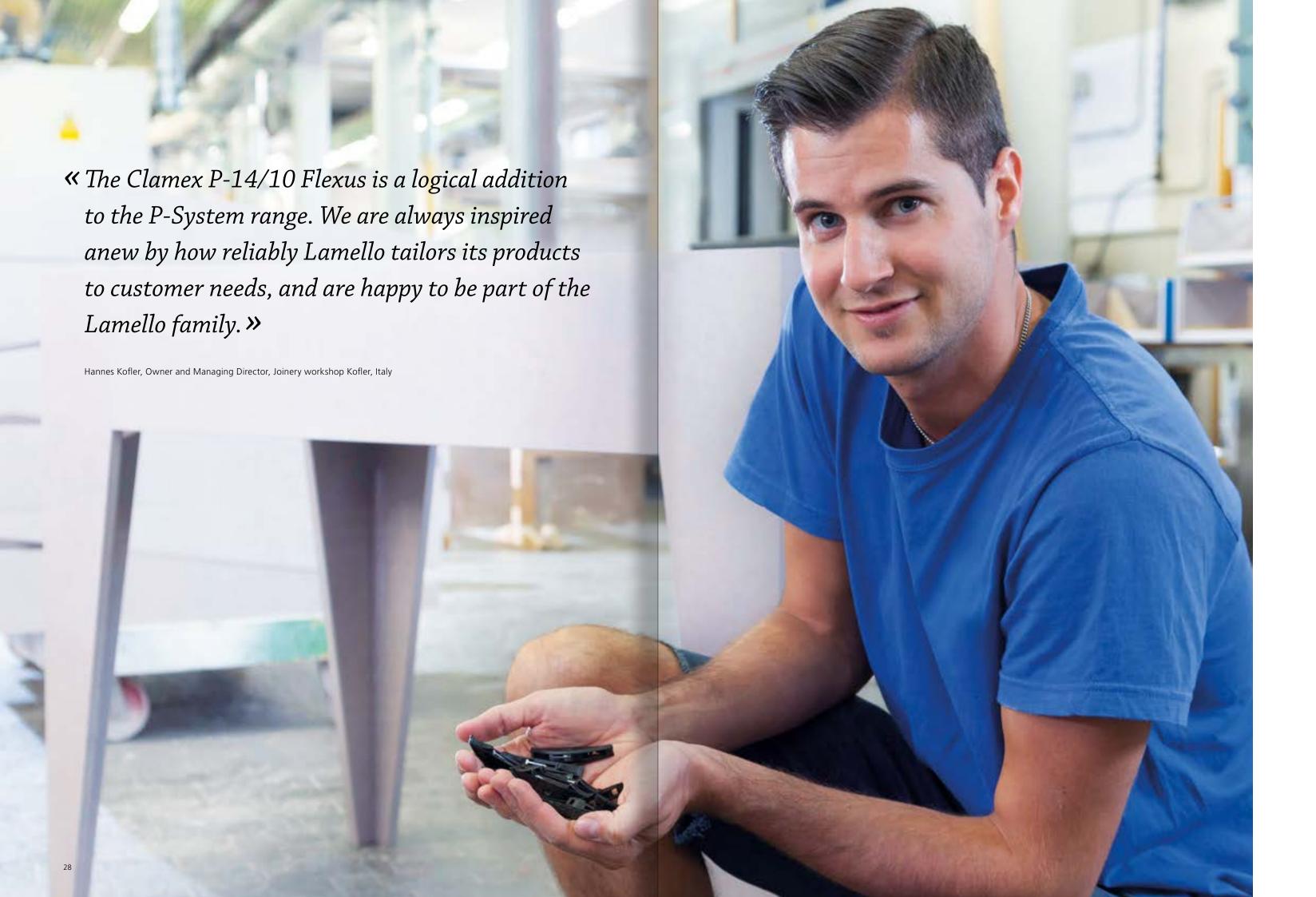
Versatile

Simple glueing of mitre joints



Lower assembly force

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



P-System

Applications

Furniture manufacturing

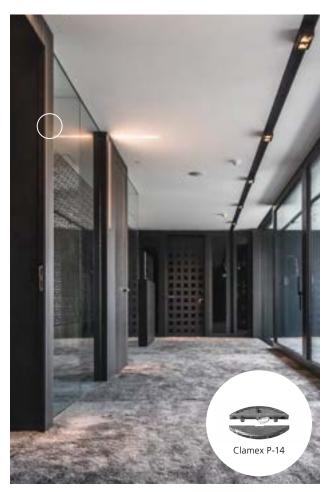






Interior fitting









P-System

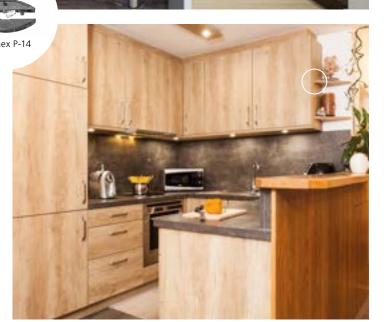
Applications

Kitchen manufacturing





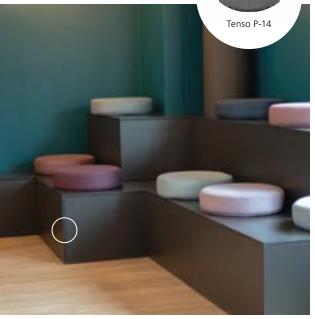












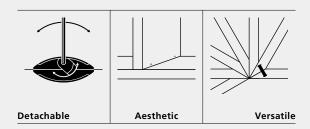
Shop fitting

Clamex P-14

Detachable furniture connector



Features



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

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

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



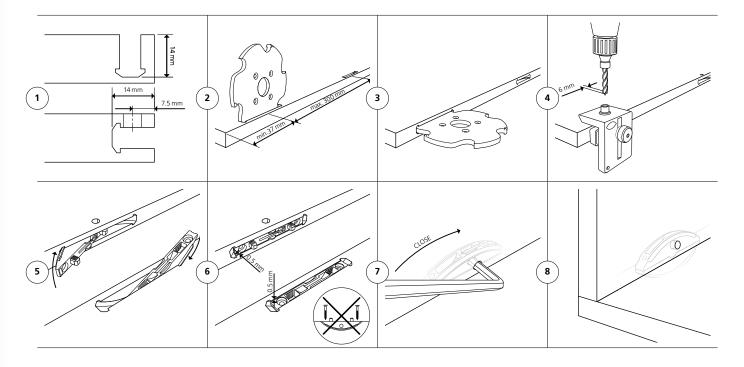
Articles



Award
See of the best
Art. No.

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



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Experience the connector live and receive comprehensive product information!





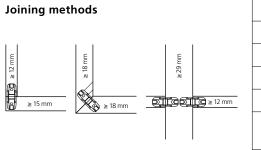








Technical data



Size	$64 \times 27 \times 9.7 \text{mm}$	64×27×9.7 mm		
Cutter	Ø 100.4×7ר 22 r	Ø 100.4×7ר 22 mm		
Material connector	Fiberglass reinforce	Fiberglass reinforced plastic		
Material of lever	Zinc die cast	Zinc die cast		
Installation tolerance	Long. ± 1 mm/radia	Long. ± 1 mm/radial ± 1 mm		
Tensile strength (N) Up to	MDF Particle 9001 8001	e board Beech 1000¹		
Material range	Particle board, MDI hardwood etc.	Particle board, MDF, plywood, softwood, hardwood etc.		

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

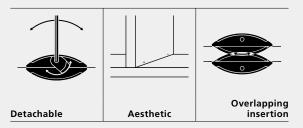
¹ See comment on load limits on **PAGE 195**

Clamex P-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.

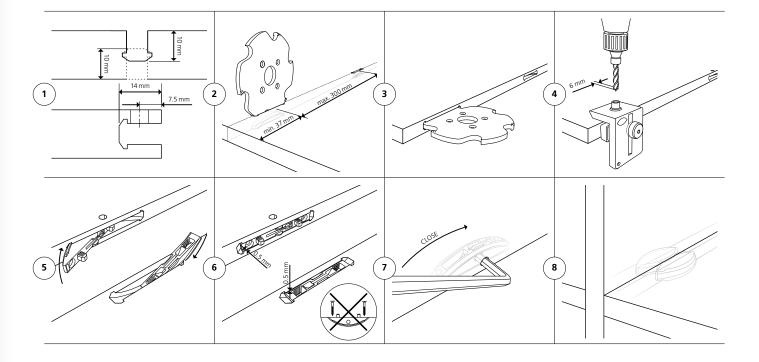
The connector for divisions has two installation depths and is used when two shelves are attached to the same dividing panel at the same height. Due to the reduced installation depth of 10 mm, the minimal thickness for the division is 16 mm.

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



www.lamello



Experience the connector live and receive comprehensive product information!













Technical data

Joining methods	Size		5 × 9.7 mm × 9.7 mm			
E E S 12 mm E E S 12 mm E S 12 mm	Cutter	Ø 100.4	Ø 100.4×7ר 22 mm			
	Material connector	Fiberglas	Fiberglass reinforced plastic			
	Material of lever	Zinc die	Zinc die cast			
	Installation tolerance	Long. ±	Long. ± 1 mm/radial ± 1 mm			
	Tensile strength (N) Up to	MDF 800 ¹	Particle board 600 ¹	Beech 900 ¹		
	Material range Particle board, Nardwood etc.			softwood,		

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



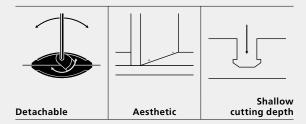
¹ See comment on load limits on **PAGE 195**

Clamex P-10

Detachable connector for materials from 12 mm thickness



Features

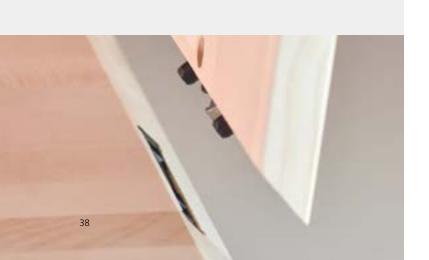


Clamex P-10 is a detachable connector and is anchored in the form-locking P-System groove within seconds.

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

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

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



Articles



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

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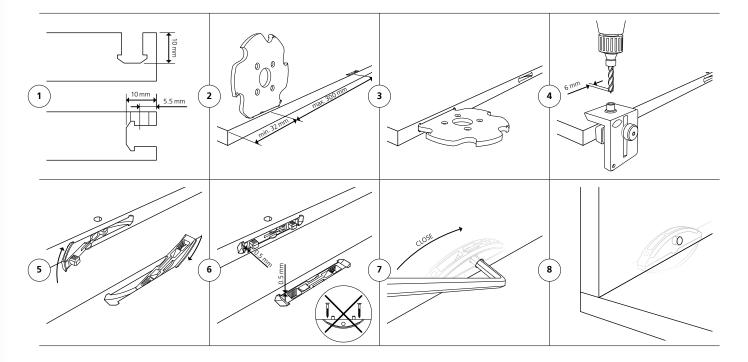


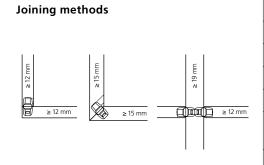






Function





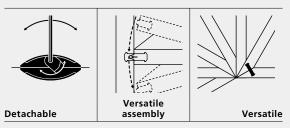
Size	$52 \times 19 \times 9.7 \mathrm{m}$	nm	
Cutter	Ø 100.4×7×9	Ø 100.4×7ר 22 mm	
Material connector	Fiberglass rein	Fiberglass reinforced plastic	
Material of lever	Zinc die cast	Zinc die cast	
Installation tolerance	Long. ± 0.5 mi	Long. ± 0.5 mm/radial ± 0.5 mm	
Tensile strength (N) Up to		article board	Beech 900¹
Material range	Particle board hardwood etc	, MDF, plywood,	softwood,

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.



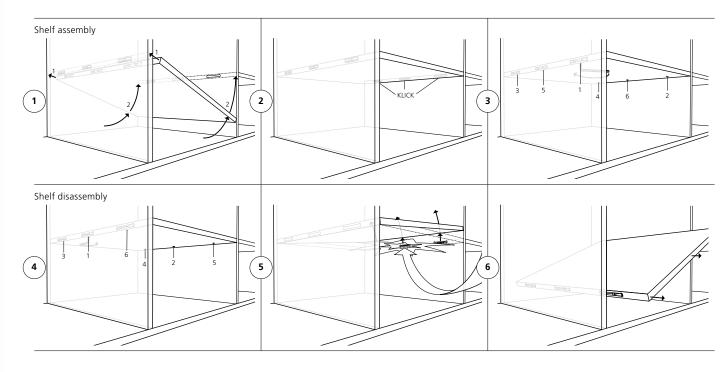
Articles





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!



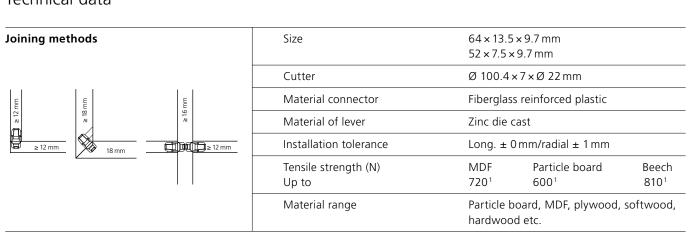










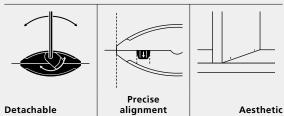


Clamex P-14 CNC

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.





Clamex P-14 CNC Art. No.

2000 pieces element with lever 145388



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



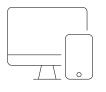
Clamex P-10 Art. No.

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!





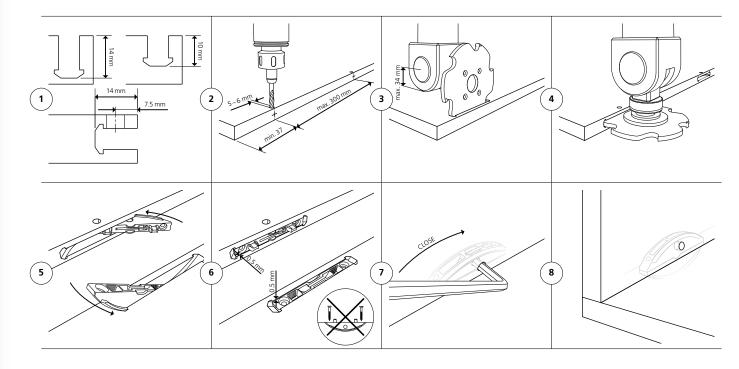


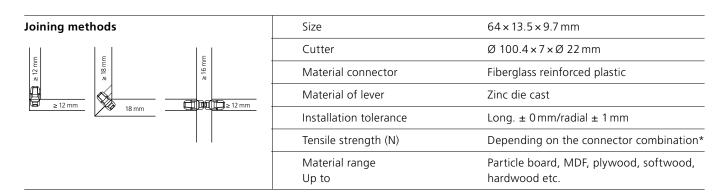






Function





Advantages of the Clamex P

Detachable furniture connector



1. Advantages Advantages in production in transportation in assembly

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

- Tool-free connector installation
- Workpieces with pre-installed
 P-System connectors are stackable for storage and transport
- No extra bags or loose hardware required with furniture shipment
- Tool-free connector disassembly for surface treatment
- Simple positioning of workpieces thanks to positioning pins
- Easy assembly with an Allen key
- Aesthetically small, barely visible hole (Ø = 6 mm)
- Open the connection time and time again with the rotating lever
- Lateral tolerance perfect, flush alignment of both workpieces



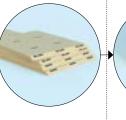
Machining with
a Zeta P2 or
CNC machine



2. Only one tool change



Tool-free connector installation



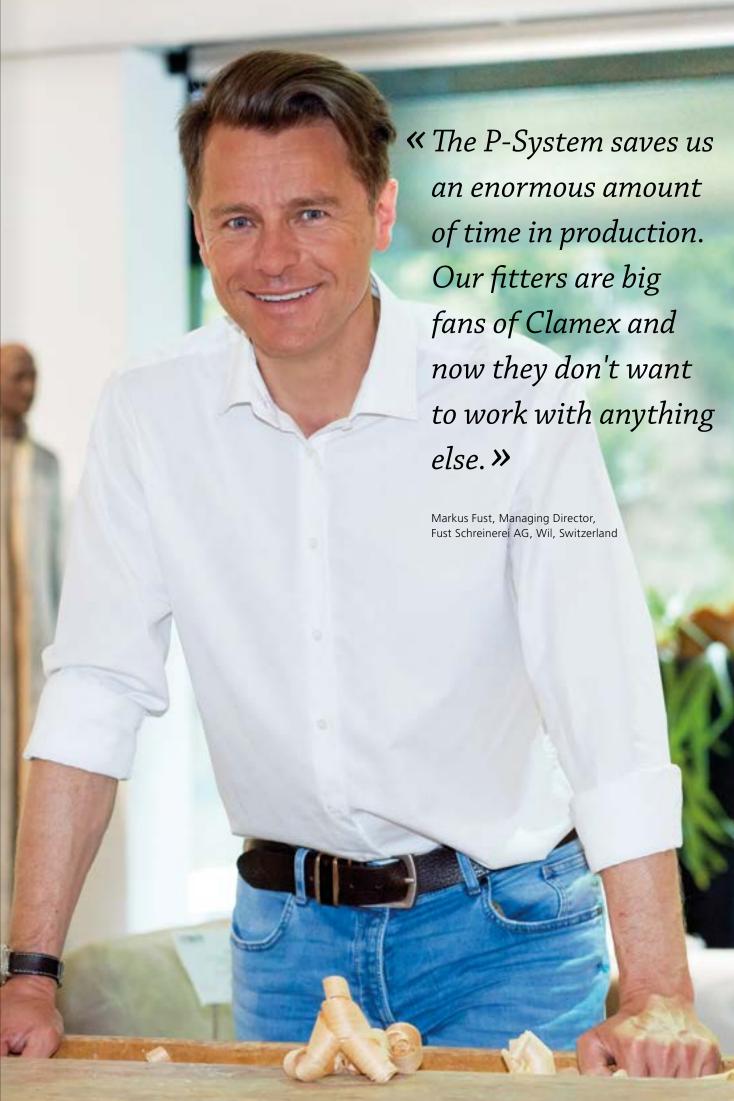
Flat pack

delivery

Versatile for all angles and joining situations



Strong and detachable connection

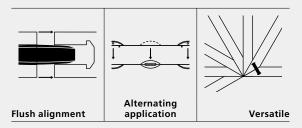


Bisco P

Aligning element, suitable for the P-System groove



Features



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

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



Articles



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



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

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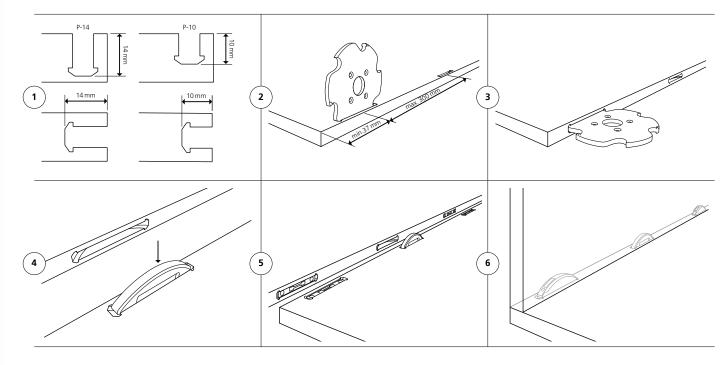
Experience the connector live and receive comprehensive product information!

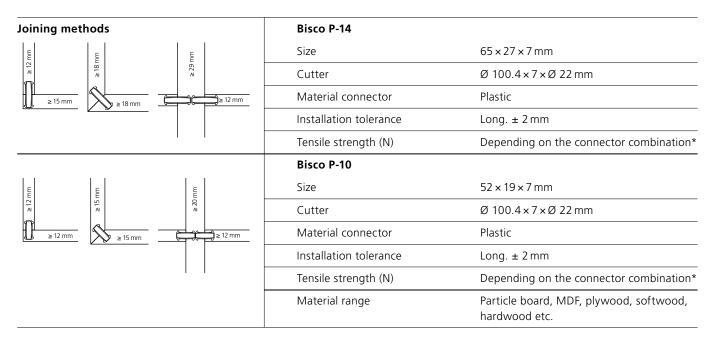






Function



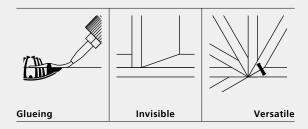


Tenso P-14

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!





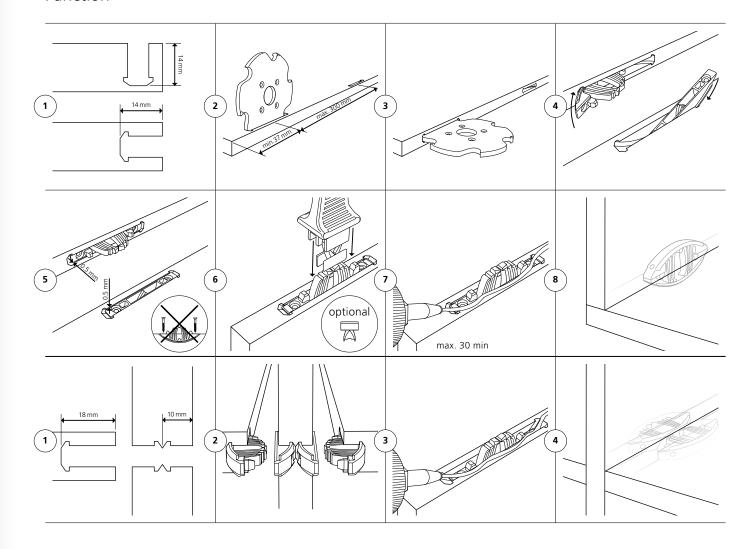




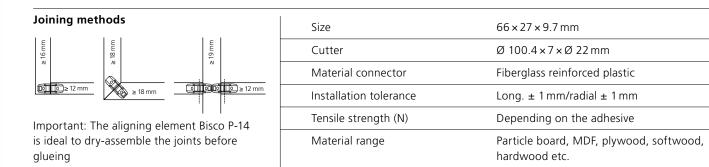




Function

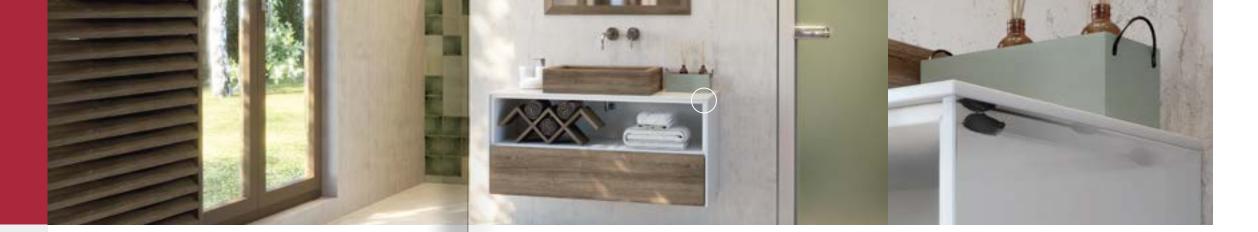


Technical data

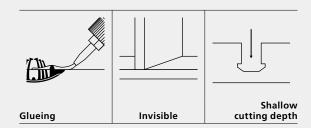


Tenso P-10

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

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Experience the connector live and receive comprehensive product information!





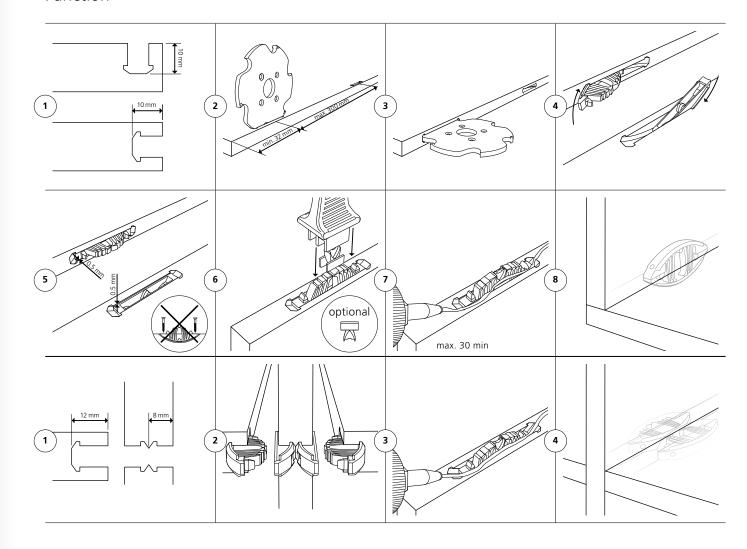


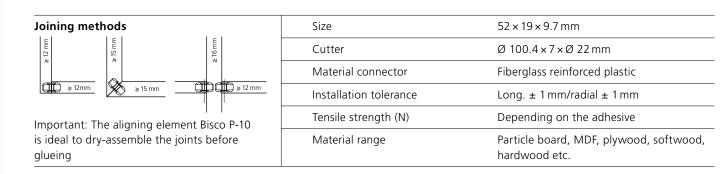






Function



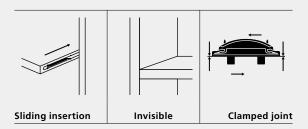


Divario P-18

Self-clamping, invisible connector for slide insertion



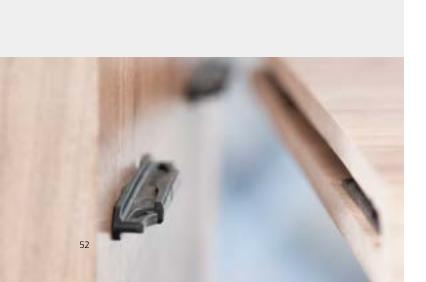
Features



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

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

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



Articles



	nterz	um
10		11/4
	A	
	HW	uu.
	-	-
	Barriot I	

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



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

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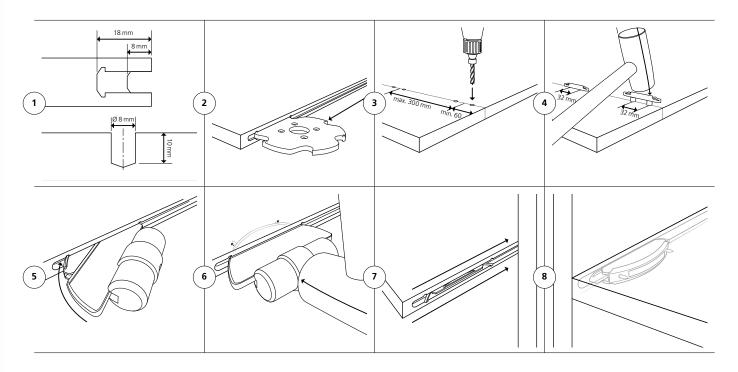
Experience the connector live and receive comprehensive product information!

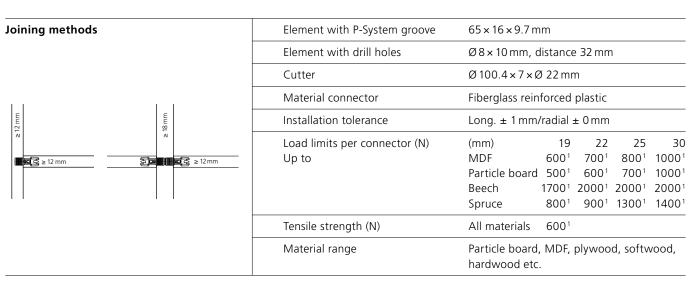






Function







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

A unique interplay of:

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



Connection cap made of 50-percent thicker material for good thermal dissipation

Multiple power connectors for internal wiring provide continuously high power output

Reinforced current collectors for low heat losses

More active material in reactive surface for high capacity in a compact size

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

18 V LiHD 4.0 Ah

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



18 V LiHD 5.5 Ah

Available as an option for even longer working periods



More flexible in the workshop

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

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



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



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



Mobile working on the construction site

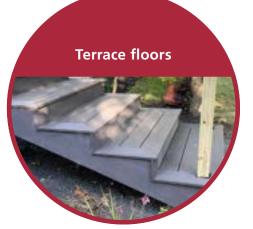
The cordless biscuit joiner makes work on the construction site much easier – there is no need to search for sockets and roll out the cable reel



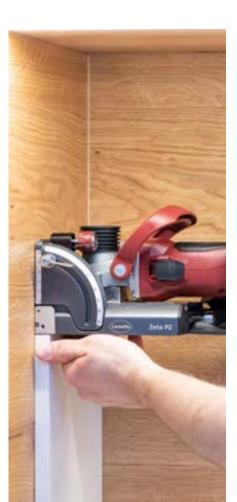
- Easily and flexibly cut grooves in fitted panels on site, even if the furniture has been completely machined on the
- Additional grooves on the longitudinal joint for fillers or pillar cladding are created extremely efficiently after



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



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

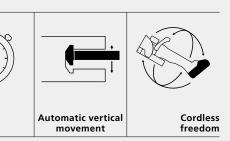




Zeta P2 cordless

The powerful P-System biscuit joiner for cordless freedom

Features



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







Zeta P2 cordless biscuit joiner, DP (diam	nond) Art. No.
In systainer, incl. 2 batteries and charger	101801SD
In systainer, without batteries, without cha	rger 101800SD



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

www.lamello



Experience Zeta P2 cordless live and receive comprehensive product information!





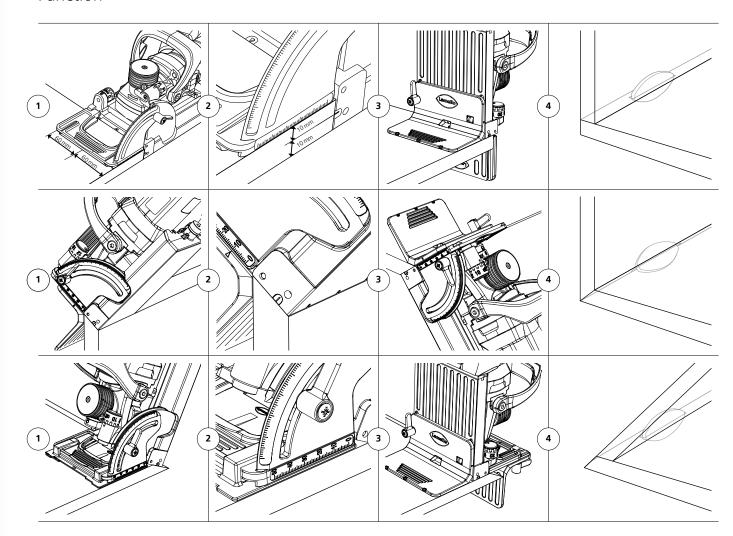








Function



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

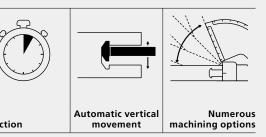
^{*} Only included in art. No. 101801SD

Zeta P2

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



Features



The Zeta P2 is the biscuit joiner for P-System connectors and is used to create the form-locking P-System goove within seconds.

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

Articles



Zeta P2	Art. No.
With P-System groove cutter HW (carbide)	1014035
in Systainer	
With P-System groove cutter DP (diamond)	101403SD
in Systainer	



Kit contains

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

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Experience Zeta P2 live and receive comprehensive product information!





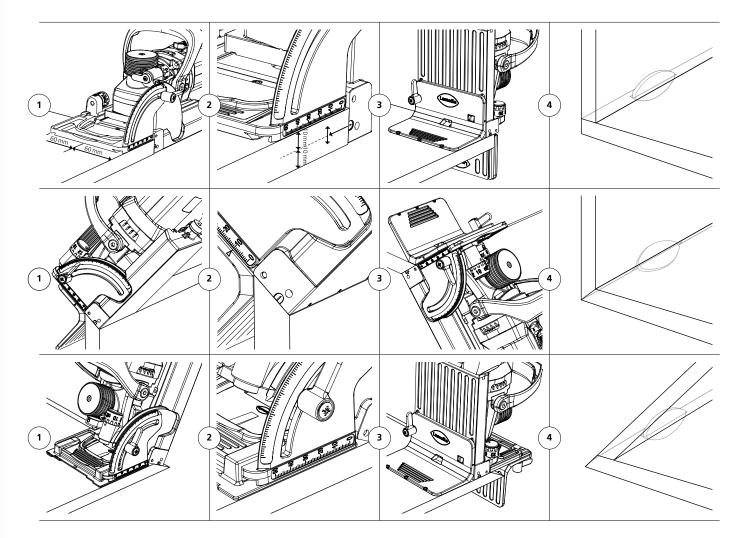








Function



Power/Voltage	1 050 W/230 V	Teeth	Z3
	800 W/120 V	Cutting depth max.	20 mm
Speed	9 000 min ⁻¹	Weight	 3.7 kg
P-System Cutter	HW: Ø 100.9×7ר 22 mm	- 3	3
	DP: Ø100.4×7ר22mm		



Accessories

Zeta P2 cordless and Zeta P2

Accessories



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







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



P-System groove cutter DP (diamond),

Art. No.
132140



P-System groove cutter HW (carbide),

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



Groove cutter HW (carbide),

Ø 100×4ר 22 mm	Art. No.
Z2 + V4 scoring teeth, 4 screw holes, hub	132000
for Zeta P2/Top 21/Classic X	



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

Batteries



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



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



Art. No.

Battery charger ASC 55

123100

Connected in seconds ...

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

Advantage



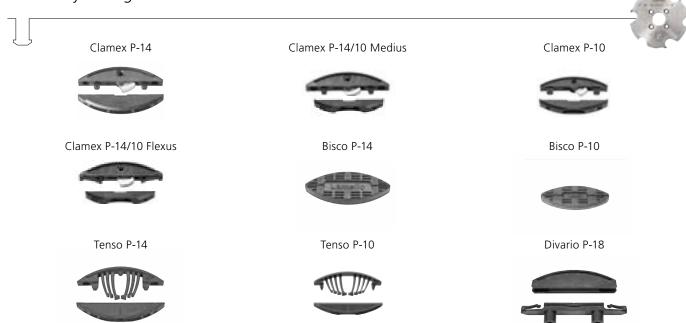


Versatile use with many different connecting elements.

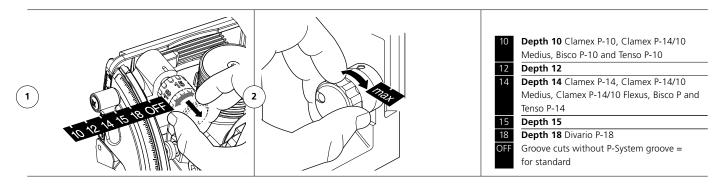
With the Zeta P2, you can quickly and easily connect parts with a range of angles and joining situations. Suitable for individual pieces of furniture as well as prototypes and line production.



With P-System groove



P-System depth adjustment



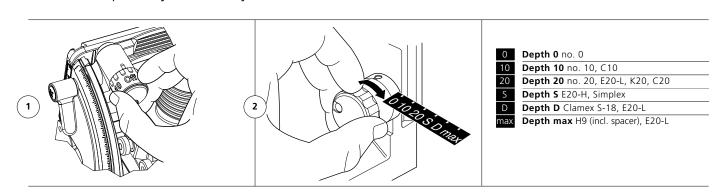
With 4 mm Lamello System groove cutter



With 3 mm Lamello System groove cutter



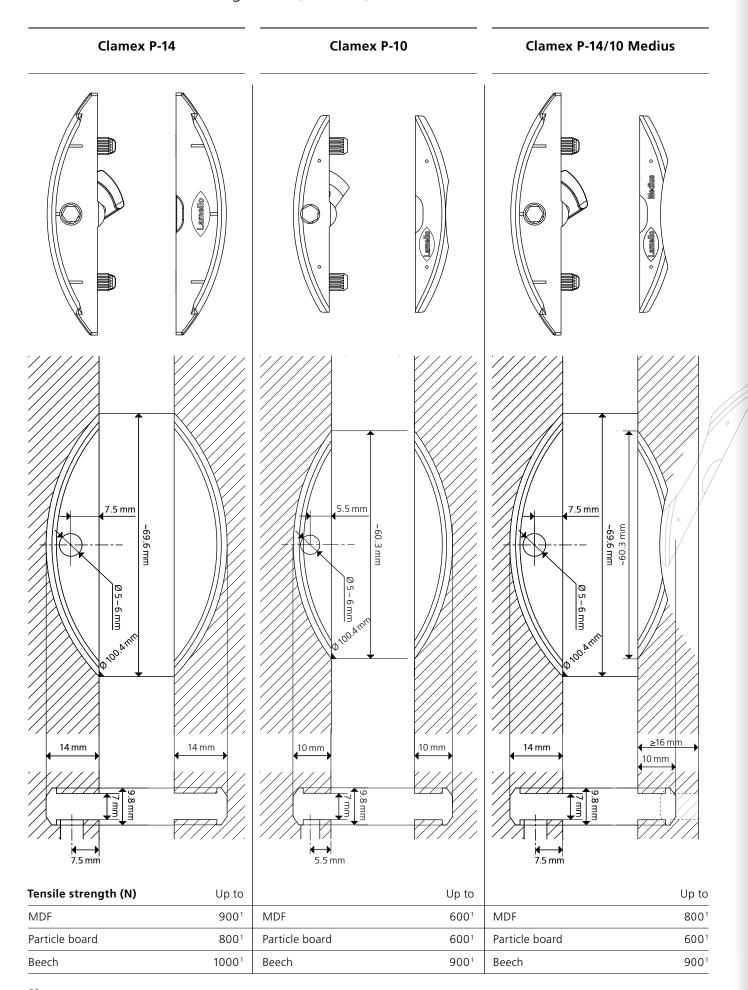
Lamello depth adjustment system

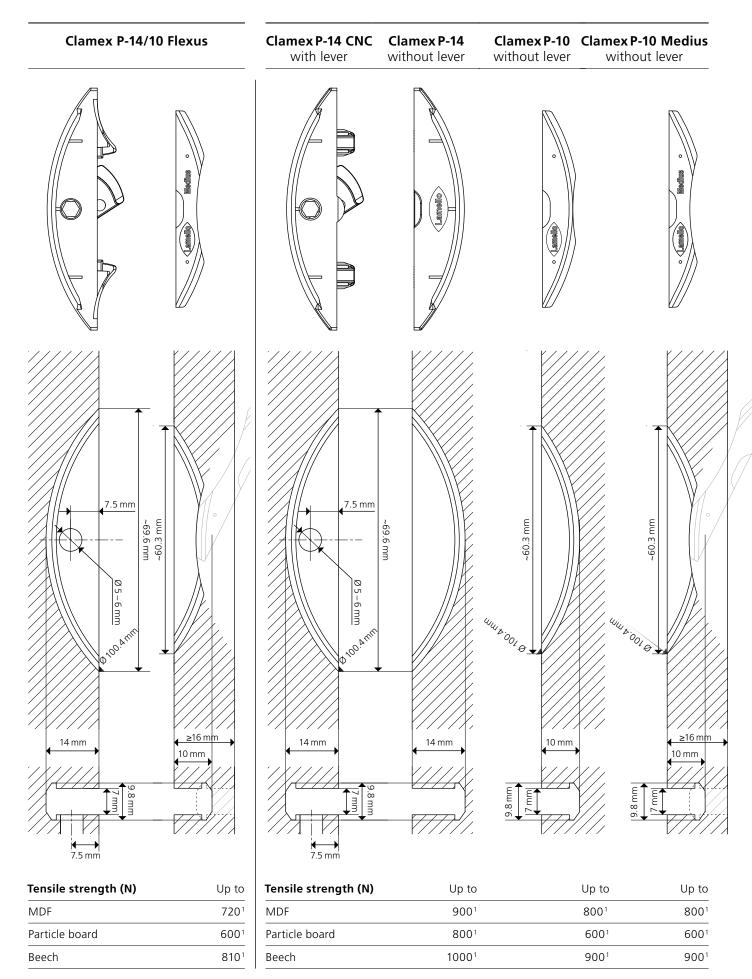


 $\mathbf{1}$

Technical information

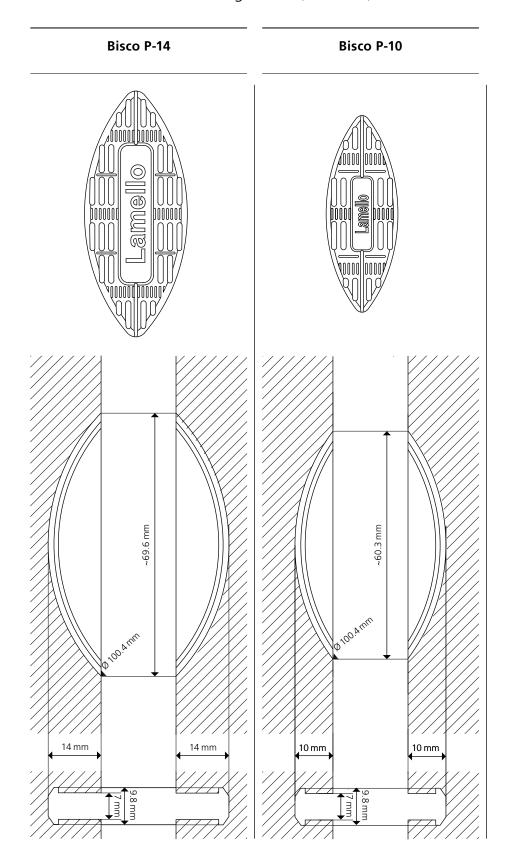
Overview of connectors + grooves (scale 1:1)

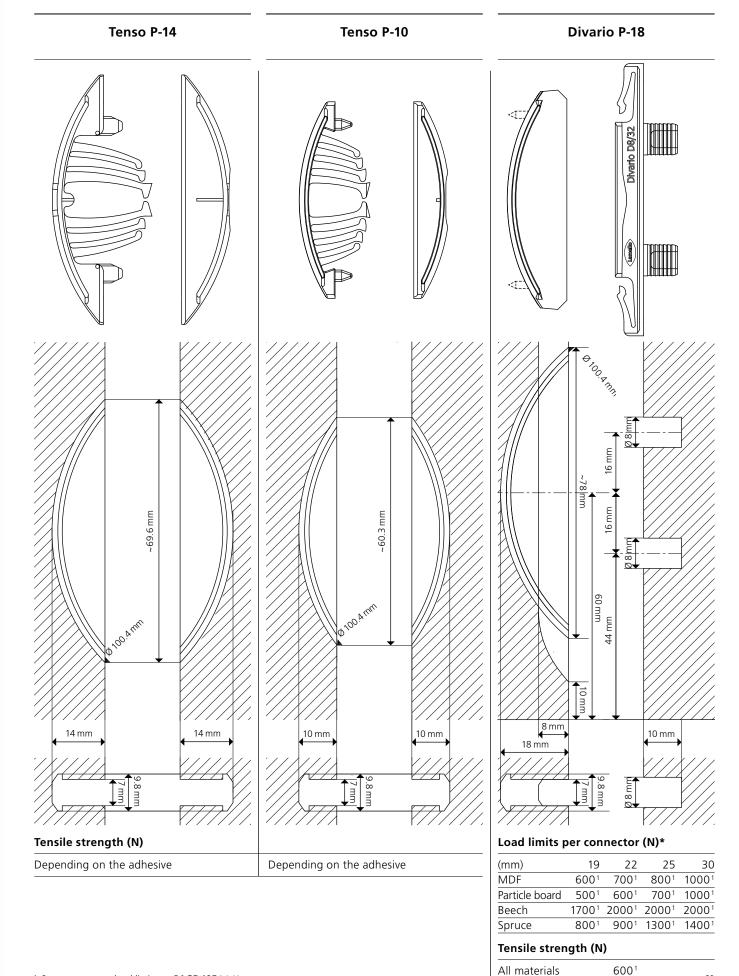




Technical information

Overview of connectors + grooves (scale 1:1)





¹ See comment on load limits on **PAGE 195** I * Up to

Accessories / Spare Parts

P-System



P-System



P-System connector assortment

Professional Art. No.

Scope of delivery: 120 pairs Clamex P-14, 145323

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.
In Systainer3 M187, scope of delivery:	145321
80 pairs Clamex P-14, 80 pairs Tenso P-14,	
incl. preload clip, 30 pairs Clamex P-14/10 Medius,	
30 pairs Clamex P14/10 Flexus, 20 pieces Bisco P-14	and
Tenso P-14/10 preload tool	

Clamex P





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







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

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











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



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



Posi	tioning clip CNC for Zeta P2*	Art. No.
Ø 6 r	nm	251067
for p	ositioning in the Clamex P access hole (6 mm)	

Tenso P



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

P-System 4 mm depth

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

Divario P



Divario P-18 Marking jig metal with

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



Divario P-18 Marking jig plastic,

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



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



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

Zeta P2



Stop square for

Zeta P2, Top 21, Clas	ssic X	Art. No.
For stabilising the bisc	uit joiner in the	251044
vertical position, ideal	for obtuse mitre joints	







Spacer for Zeta P2, Top 21, Classic X	Art. No
5 mm, aluminium for 18 mm panels	25302
2 mm, plastic for 16 mm panels	25302
4 mm, plastic for mitres	25302



P-System groove cutter DP (diamond),

Ø 100.4×7ר 22 mm	Art. No
Z3, 4 NL for Zeta P2	13214



P-System groove cutter HW (carbide),

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



Dust bag	Art. No
For Zeta P2/Top 21/Classic X	25753

Batteries



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



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



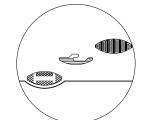
Art. No.

Battery charger ASC 55 123100

* For detailed information, see PAGE 166/171

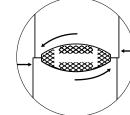


Features



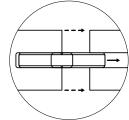
Versatile applications

One cutting principle for many different joining elements



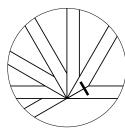
Lateral tolerance

The generous sliding tolerance allows for perfect flush alignment of workpieces



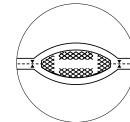
Perfect fit

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



Versatile

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



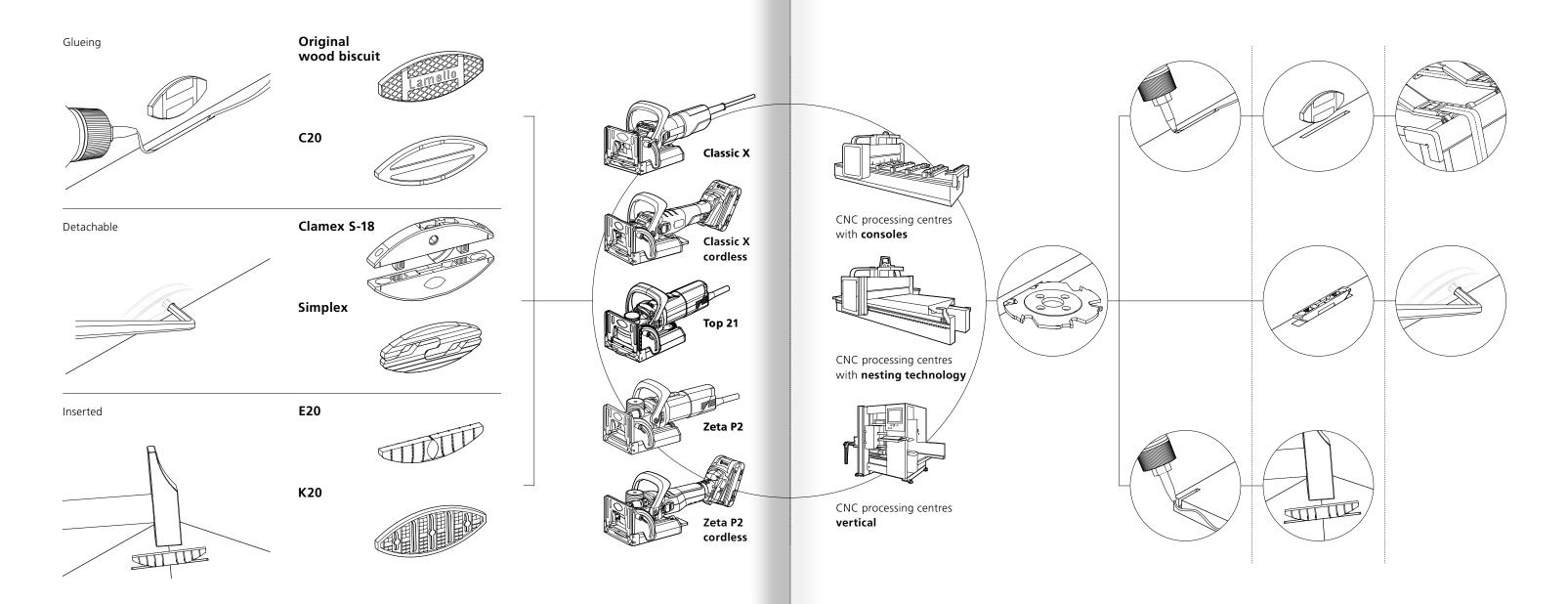
Symmetrical

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

Lamello System

Overview

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



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Lamello System

Applications

Furniture manufacturing







Interior fitting





Lamello System

Applications

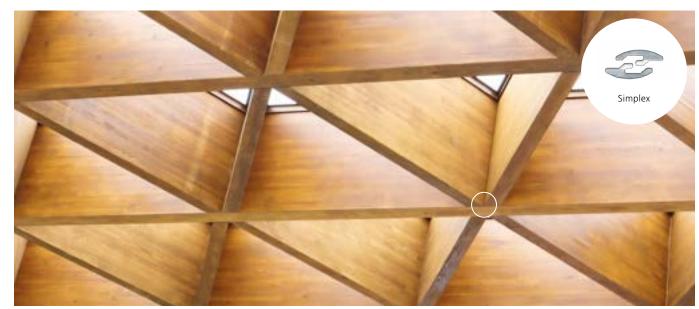
Kitchen manufacturing







Commercial joinery







Shop fitting

Original wood biscuit

The original wood biscuit that always fits



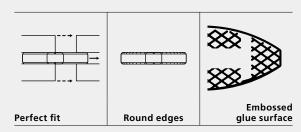








Features



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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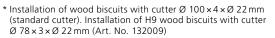




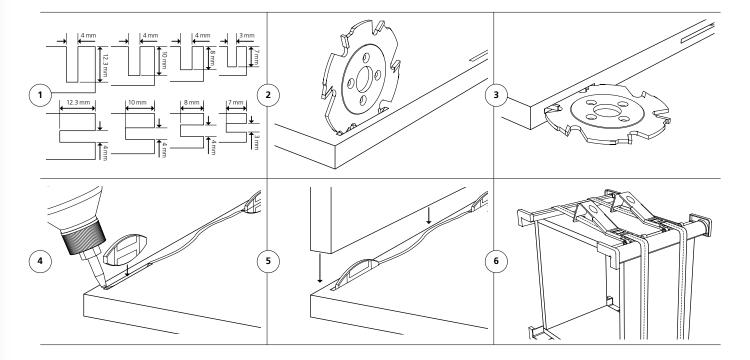








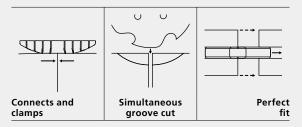
Function



Joining methods		Size 20	56×23×4mm	
			Size 10	53 × 19 × 4 mm
	■ ≥ 6mm	12 mm	Size 0	47 × 15 × 4 mm
10	≥ 13 mm	≥ 12 mm	Cutter	Ø 100×4ר 22 mm
	≥ 6 mm	10 mm	Size H9	38 × 12 × 3 mm
0	11 mm	≥ 10 mm	Cutter	Ø 78×3ר 22 mm
	<u>e mm</u>	mu 6	Material connector	Beech
	Λ Δ ≥9 mm	50 N ≥9 mm	Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
	[8]	IEI	Clamping force (N)	Depending on the adhesive
9	Ω Δ V ≥8 mm	≥8 mm	Material range	Particle board, MDF, plywood, softwood, hardwood etc.

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

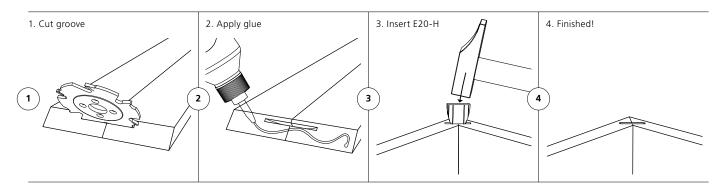


E20-L	Art. No.
80 pieces	145022
400 pieces	145025
1200 pieces	145027

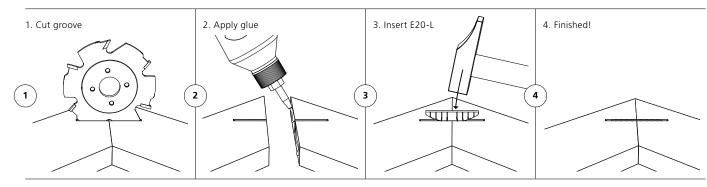
Assorted	Art. No.
40/40 pieces (E20-H/E20-L)	145020

Function

E20-H



E20-L



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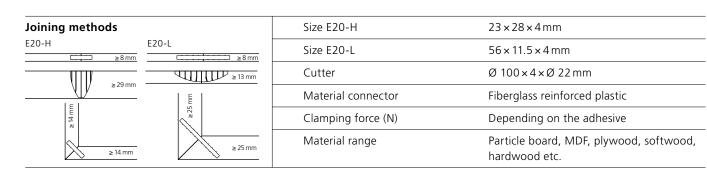










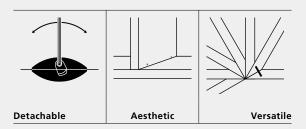


Clamex S-18

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



Features



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

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

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

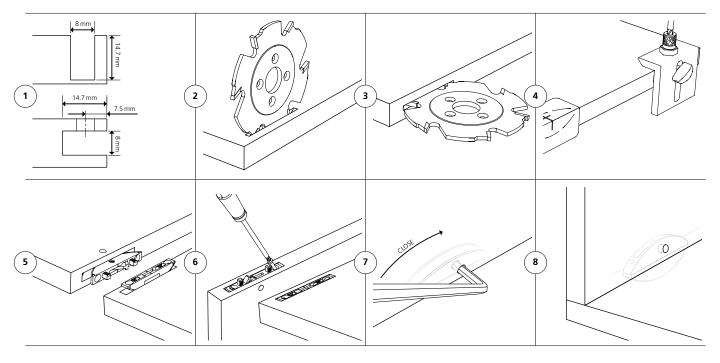


Articles



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

Function



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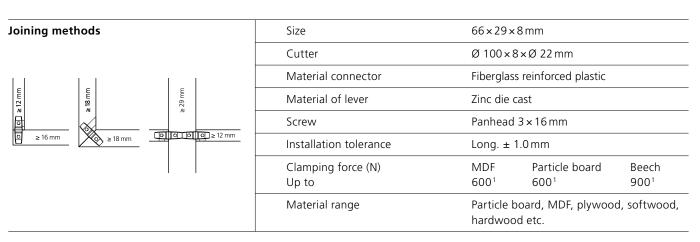








* Double cut with 4 mm cutter and spacer Single cut with 8 mm cutter Art. No. 132108

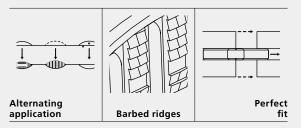


K20

The clamping element, which holds the workpiece in position



Features



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

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

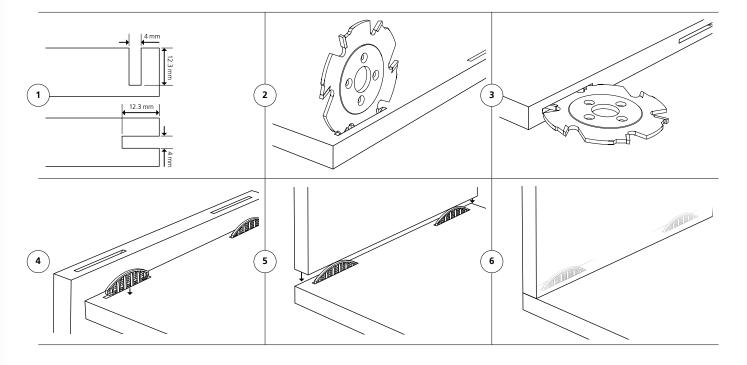
The combination with the original wood biscuits size 20 results in a joint with high strength.



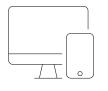


Art. No.
145001
145000

Function



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Experience the connector live and receive comprehensive product information!



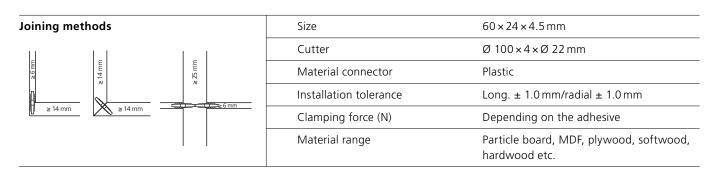










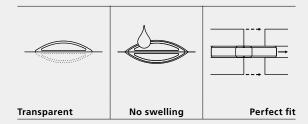


C20/C10

The transparent element



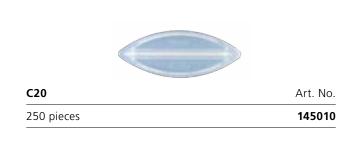
Features



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.

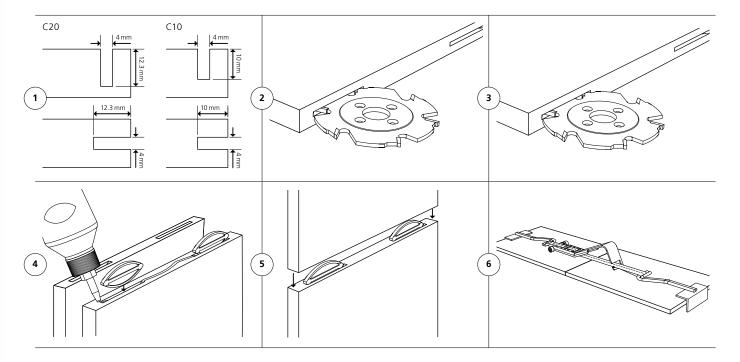
Articles



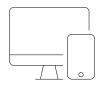


C10	Art. No.
300 pieces	145012

Function



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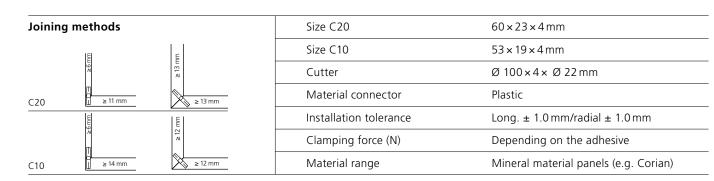










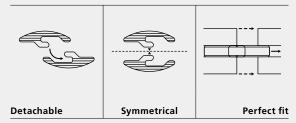


Simplex

Detachable slide-in connector



Features



Simplex is a detachable slide-in connector in two-parts for dismountable constructions and can be used with any Lamello biscuit joiner.

Simplex is inserted into the 4 mm groove and anchored with PUR adhesive. The connector has a stop on one side and can be slid-in and removed again.

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

Articles



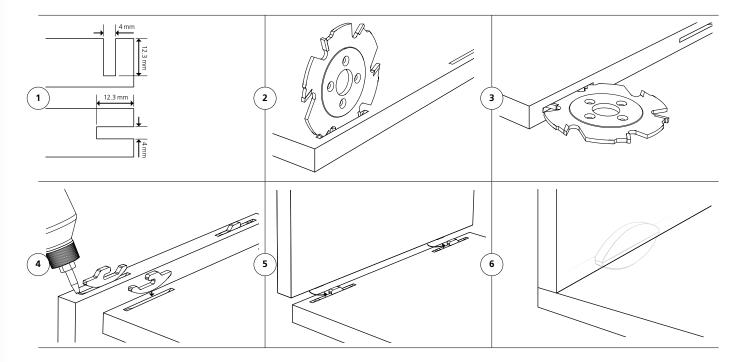
Simplex	Art. No.
50 pairs	166101
100 pairs	166100

Accessories

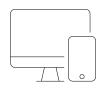


Simplex inserting tool	Art. No.
For accurate positioning of Simplex	166110

Function



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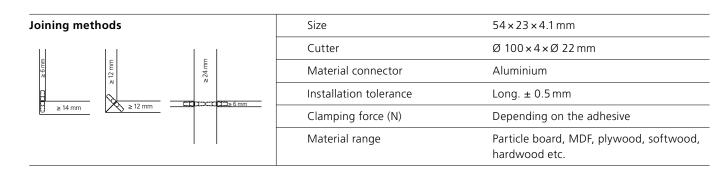










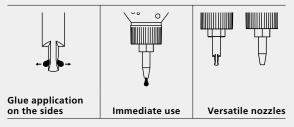


Minicol

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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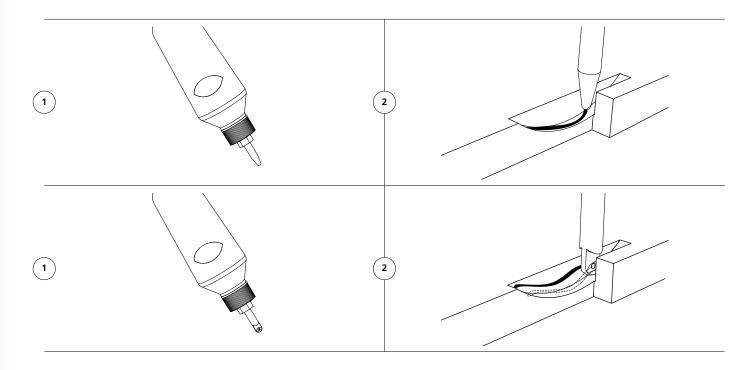








Function



Technical data

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

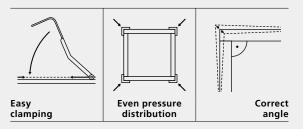
Clamping set

Clamping system for cabinets





Features



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

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

Articles



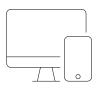
Clamping	set	Art. No
20 cm	1 piece of clamps	175021
	8 m strap	
	4 pieces profile sections 20 m	
60 cm	2 pieces of clamps	175020
	2 pieces 8 m straps	
	4 pieces profile sections 60 cm	
	2 pieces tension hooks	



Tension hooks	Art. No.
2 pieces	175200



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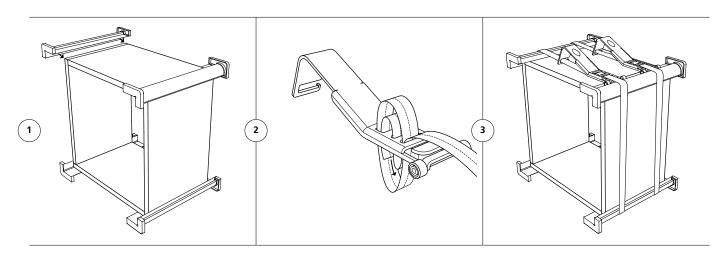








Function



Technical data

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

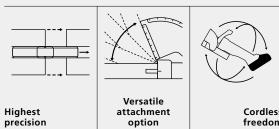
 $_{98}$

Classic X cordless

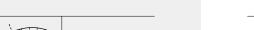
The original biscuit joiner – precise and cordless



Features



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





Articles

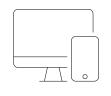
Classic X cordless biscuit joiner	Art. No.
In systainer, incl. 2 batteries and charger	101701DES
In systainer, without batteries, without charger	101700DES
In carton, without batteries, without charger	101700DEK



Kit contains

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

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Experience Classic X cordless live and receive comprehensive product





















Technical data

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

Function

2 O O O O O O O O O O O O O O O O O O O	

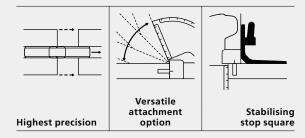
^{*} Only included in art. No. 1017015

Classic X

The original biscuit joiner for every workshop



Features

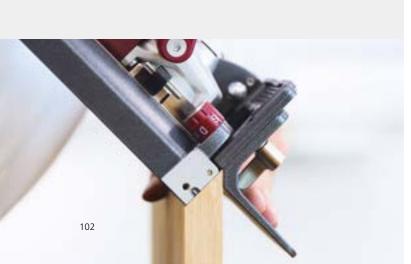


Classic X is the original biscuit joiner from the inventor of the Lamello System for cutting the 4 mm groove.

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

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

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



Articles

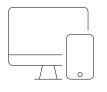


Classic X	Art. No.
In systainer	1016025
In carton	101602K



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

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Experience Classic X live and receive comprehensive product information!







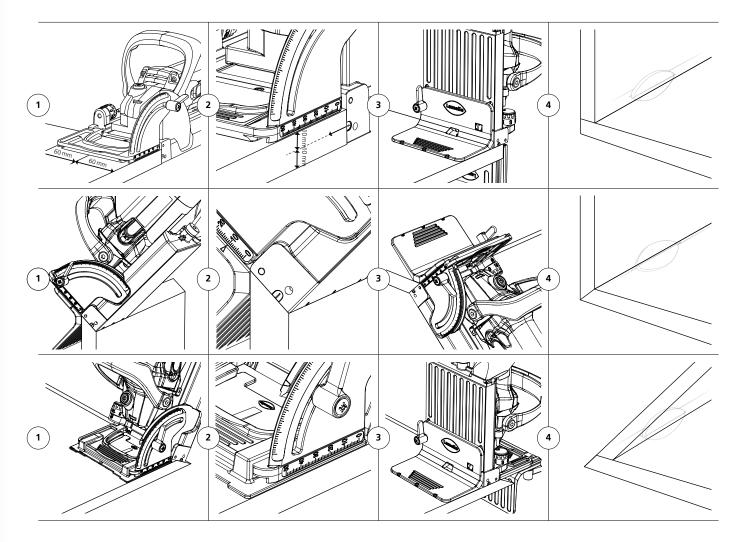








Function



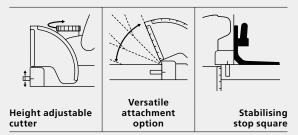
Power/Voltage	850 W/230 V or 120 V	Teeth	Z6 (3+3) with reversing teeth
Speed	10 000 min ⁻¹	Cutting depth max	20 mm
Cutter	Ø 100×4ר 22 mm	Weight	2.9 kg

Top 21

The original biscuit joiner with height adjustable blade from the inventor



Features



Top 21 is the biscuit joiner from the inventor of the Lamello System and includes a height adjustable blade for cutting the 4 mm groove. The unique height adjustment of the cutter in steps from 0.1 mm to max. 4 mm allows positioning the groove in the middle of the material thickness.

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

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

Articles

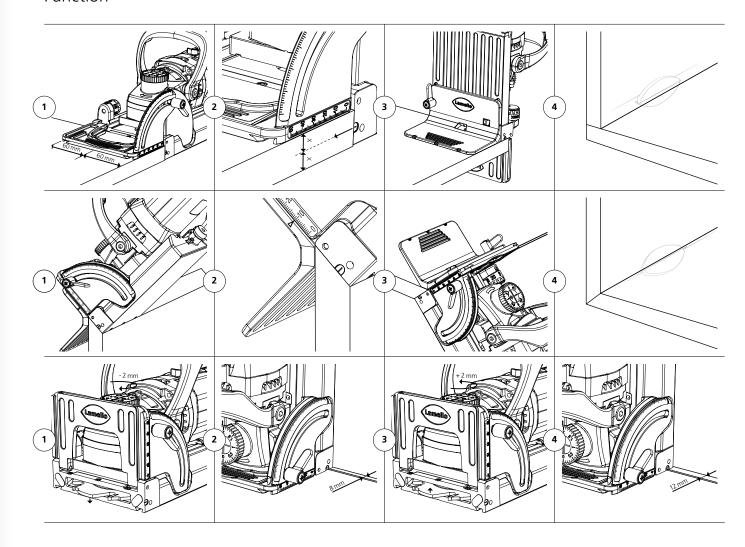


Top 21	Art. No.
In systainer	1015015
In systainer with carbide reversing blade cutter	101501SW

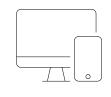


Top 21, groove cutter HW, suction stub 36 mm, dust bag, stop square, spacer 4 mm, tool set

Function



www.lamello



Experience Top 21 live and receive comprehensive product information!













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



Accessories

Classic X cordless, Classic X and Top 21

Accessories

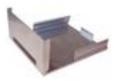


Stop square

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



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



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



Carbide tipped saw blades HW (carbide)

for expansion gaps, Ø 100×2.4ר 22 mm	Art. No.	
Z20, 4 screw holes, 2 spacers	132350	
for Zeta P2/Top 21/Classic X		



Groove cutter HW (carbide),

Ø 100×4ר 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,

with spacer for Classic X



Groove cutter HW (carbide), Ø 78×3ר 22 mm Art. No.

Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X



Groove cutter HW (carbide) with reversible blades,

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





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



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



Deflector stub	Art. No.
For biscuit joiner	331005



Battery pack 18 V, LiHD 4.0 Ah 313013

Art. No.



Art. No.

Battery pack 18 V, LiHD 5.5 Ah

313015



Art. No.

Battery charger ASC 55

123100

Please find the complete accessories range starting **PAGE 184** 107

Original Lamello biscuit joiners

These properties make the difference

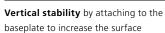
Features

Multifunctional stop square included in the kit

Both sides flush surfaces

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







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



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

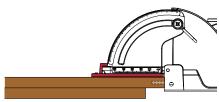
Swivelling front with fixed rotational point

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

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



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



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

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

High-precision machined application surfaces



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



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

Versatile use ...

... with various connecting elements.

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

With 4 mm Lamello System groove cutter



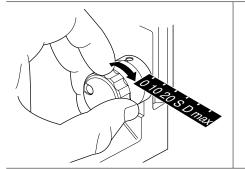
With 8 mm Lamello System groove cutter



With 3 mm Lamello System groove cutter



Lamello depth adjustment system

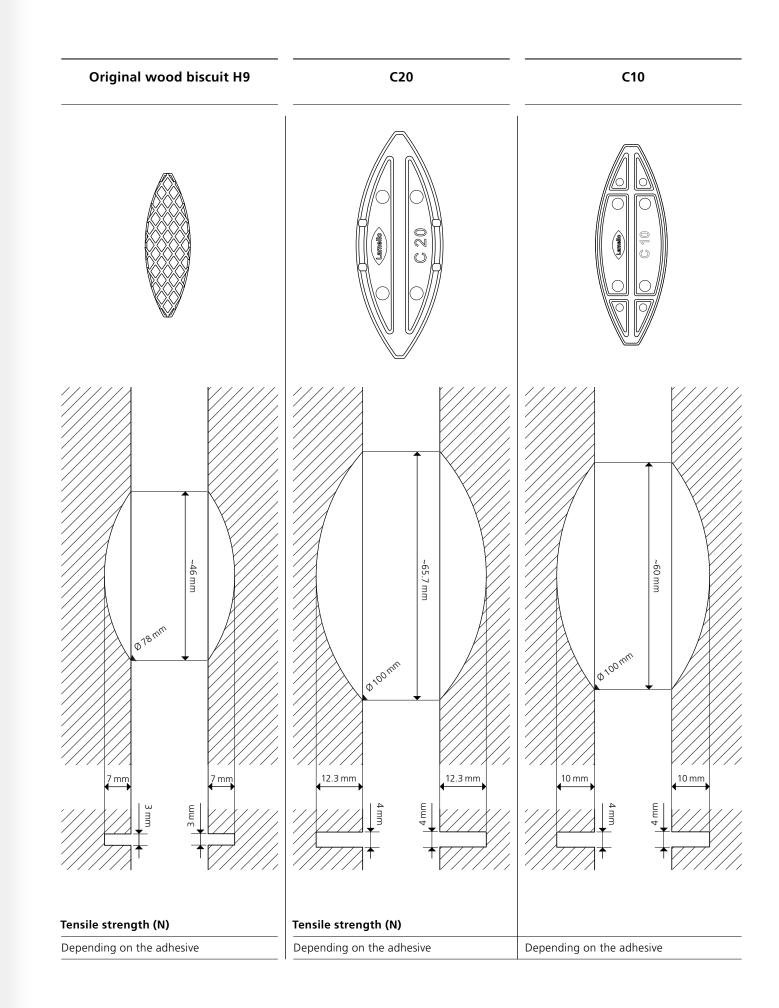


0 Depth 0 no. 0
10 Depth 10 no. 10, C10
20 Depth 20 no. 20, E20-L, K20, C20
S Depth 5 E20-H, Simplex
D Depth D Clamex S-18, E20-L
max Depth max H9 (incl. spacer), E20-L

Technical information

Overview of connectors + grooves (scale 1:1)

Original wood biscuit 20	Original wood biscuit 10	Original wood biscuit 0
265.7 mm 12.3 mm 12.3 mm	-60 mm	-54 mm
Tensile strength (N) Depending on the adhesive	Depending on the adhesive	Depending on the adhesive

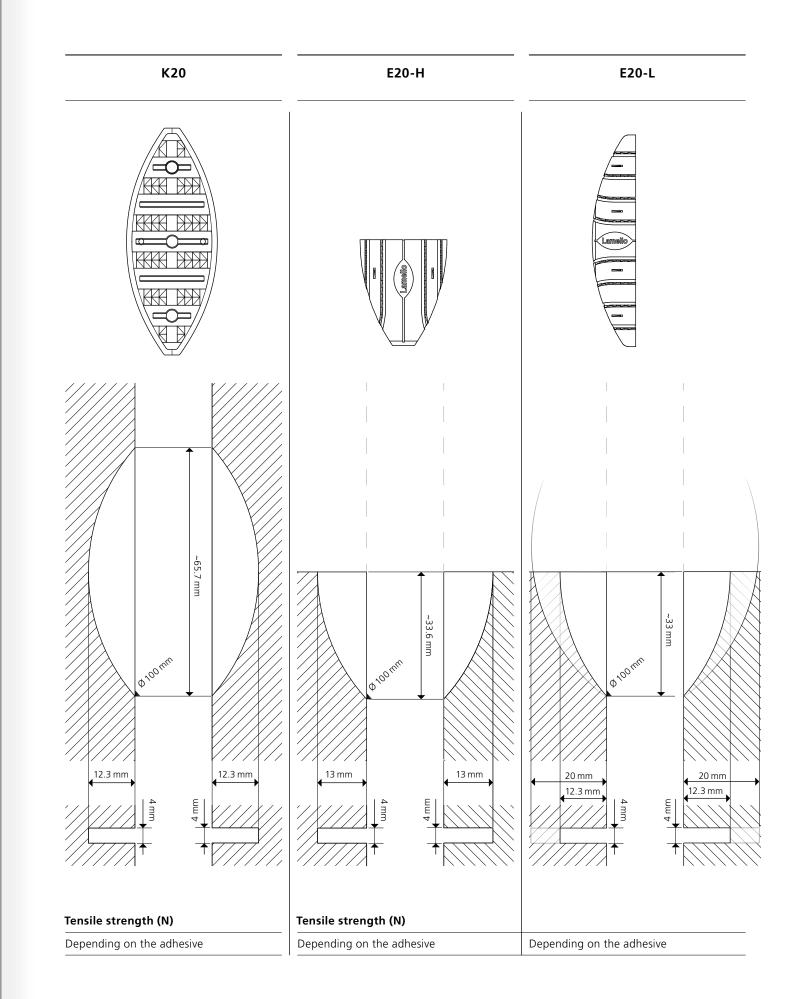


Technical information

112

Overview of connectors + grooves (scale 1:1)

Clamex	S-18	Simplex
	Lamello	
8 mm	70 mm	-67.3 mm 13 mm 4 mm 4 mm
Tensile strength (N)	Up to	
MDF Particle board	600¹ 600¹	Depending on the adhesive
Beech	9001	



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

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	251044	
position, ideal for obtuse mitre joints		







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



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



Groove cutter HW (carbide),

Ø 100×4ר 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, with spacer 132106 for Classic X

Groove cutter HW (carbide),

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



Groove cutter HW (carbide) with reversible blades,

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



Groove cutter HW (carbide) with reversible blades,

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



Groove cutter HW (carbide) with reversible blades,

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



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

Batteries



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



Battery pack 18 V, LiHD 5.5 Ah 313015



Art. No.

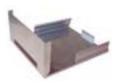
Art. No.

Battery charger ASC 55 123100

Accessories/ Spare Parts

Lamello System

Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine	251057
for 7eta P2/Ton 21/Classic X	



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



Carbide tipped saw blades HW (carbide)

for expansion gaps, Ø 100×2.4ר 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 40×1ר 22 mm	322510
with screw holes	
for Zeta P2/Top 21/Classic X	





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





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



Features Cabineo



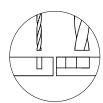
Fast assembly



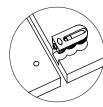
High clamping force



No edge drilling

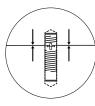


No dowel holes



One-piece and pre-installed

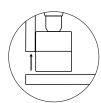
Features Invis Mx2



High clamping force



Invisible

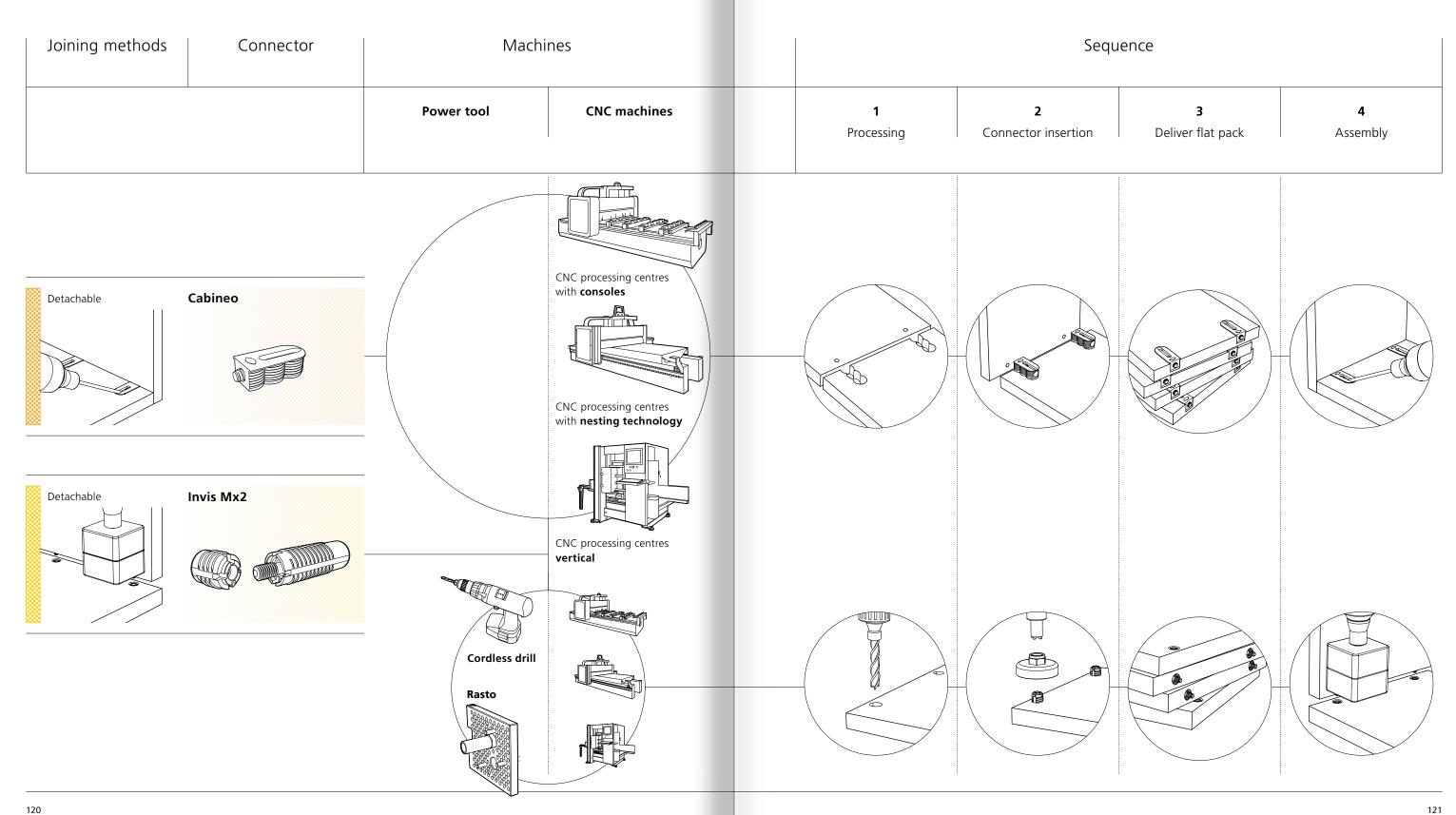


Detachable

Drilling System

– Cabineo – Invis Mx2

Overview





Drilling System

Applications

Furniture manufacturing





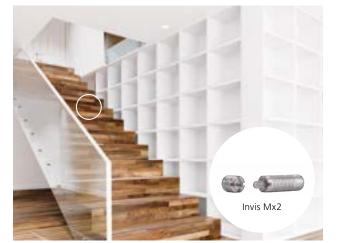


Interior fitting





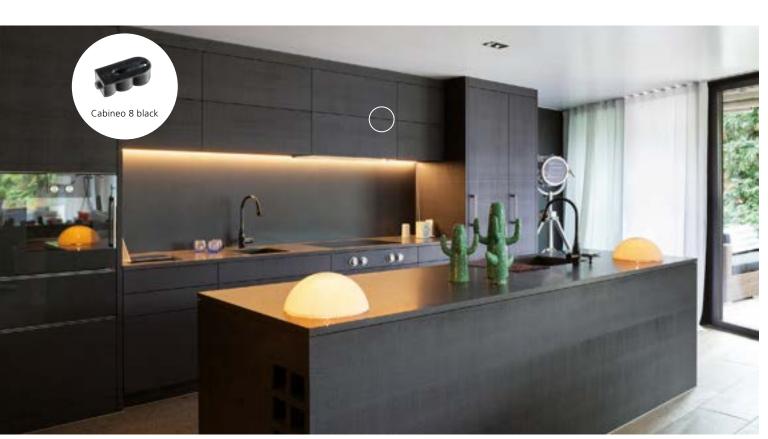




Drilling System

Applications

Kitchen manufacturing





Commercial joinery









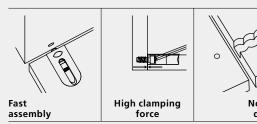
Shop fitting

Cabineo 12

Time-saving cabinet connector for corner joints from 13 mm



Features



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

Articles



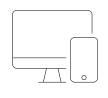
Cabineo 12	Art. No.
500 pieces	186320
2000 pieces	186321



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

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

www.lamello



Experience the connector live and receive comprehensive product information!





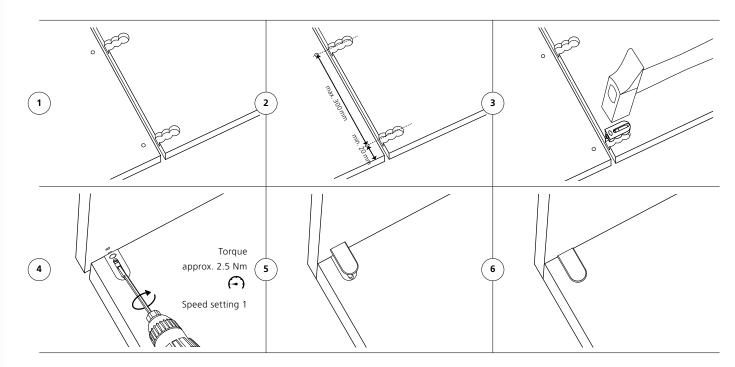








Function



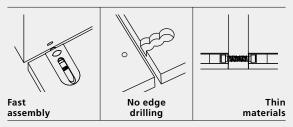
Joining methods	Size	33.8 × 16.5 ×	33.8 × 16.5 × 10.8 mm		
	Screw length	12 mm	12 mm		
	Cutter	Ø 12 mm or s	Ø 12 mm or smaller		
	Drill	Ø 5 mm and s	Ø 5 mm and Ø 15 mm		
E E E E E E E E E E E E E E E E E E E	Material housing	Fiberglass rei	Fiberglass reinforced plastic		
	Installation tolerace	Long. ± 0.1 m	ım		
	Strength per connector without dowel (N)				
	Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force	
		9001	850¹	900¹	
		10 N ~ 1 kg			
	Material range	Particle board hardwood et		od, softwood,	

Cabineo 8

Time-saving cabinet connector for centre panels from 16 mm



Features



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

Articles



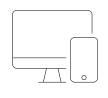
Cabineo 8	Art. No.
500 pieces	186310
2000 pieces	186311



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

Cabineo 8/12 Starter set	Art. No.
Cabineo 8 + 12 (40 pieces each),	186305
incl. Cabineo hex bit and set of cover caps (4	0 pieces)

www.lamello



Experience the connector live and receive comprehensive product information!





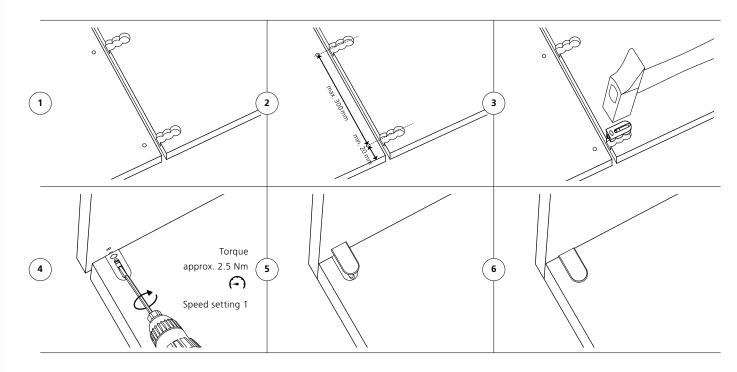








Function



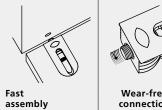
Joining methods	Size	33.8 × 16.5 ×	10.8 mm	
	Screw length	8 mm		
	Cutter	Ø 12 mm or s	maller	
E E 9 N N N N N N N N N N N N N N N N N	Drill	Ø 5 mm and Ø 15 mm		
	Material housing	Fiberglass reir	Fiberglass reinforced plastic	
	Installation tolerace	Long. ± 0.1 m	m	
	Strength per connector without dowel (N)			
	Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
		500 ¹	550¹	500¹
		10 N ~ 1 kg		
	Material range	Particle board hardwood etc		od, softwood,

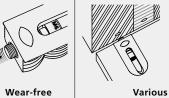
Cabineo 8 M6

Wear-resistant cabinet connector for various materials and increased strength



Features



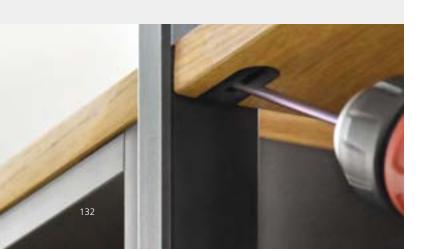


Cabineo 8 M6 is a one-piece cabinet connector which can be used with all CNC machines because only surface machining is required. The connector is ideal when joining wood composites with materials such as aluminium, steel or compact laminate.

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



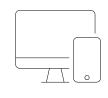
Cabineo 8 M6	Art. No.
500 pieces, metric thread M6	186315
2000 pieces, metric thread M6	186316



Art. No.
186345
186346

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

www.lamello



Experience the connector live and receive comprehensive product information!





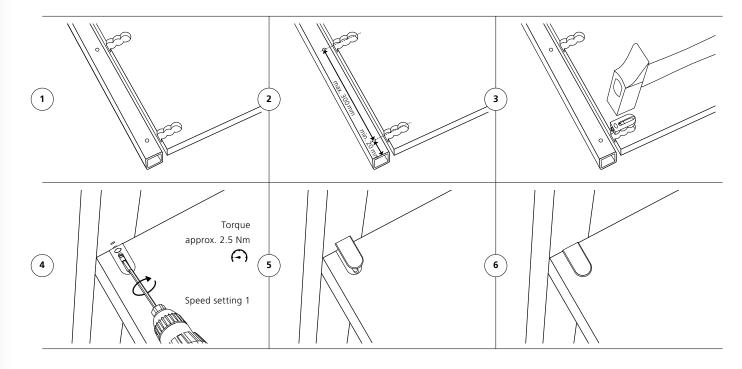








Function



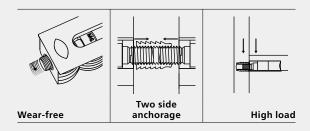
Joining methods	Size	33.8×16.5×	33.8 × 16.5 × 10.8 mm		
	Screw length	8 mm	8 mm		
	Cutter	Ø 12 mm or s	Ø 12 mm or smaller		
	Drill	Ø 15 mm	Ø 15 mm		
E	Screw thread	M6	M6		
	Material housing	Fiberglass reir	Fiberglass reinforced plastic		
	Installation tolerace	Long. ± 0.1 mm			
	Strength per connector without dowel (N)				
	In HPL 12 mm Up to	Tensile strength (N)	Shear strength	Clamping force	
		1700¹	1000¹	1700¹	
		10 N ~ 1 kg			
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.			

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.



Cabineo insertion tool is included in delivery for the inserts.



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

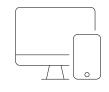


Cabineo insert M6×15.3	Art. No.
100 pieces, for dividing panels	186375
500 pieces, for dividing panels	186376



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

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Experience the connector live and receive comprehensive product information!



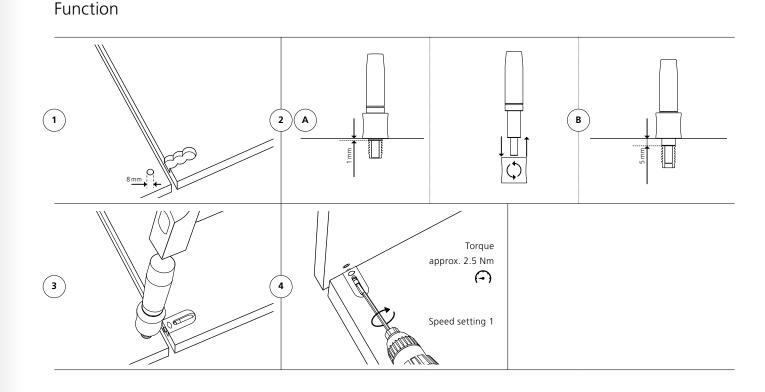




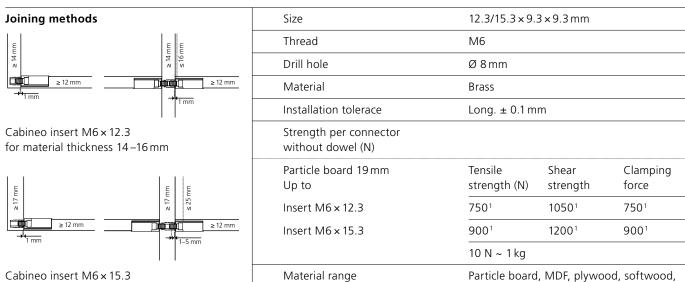








Technical data







hardwood etc.

Advantages of Cabineo

Simple, fast and strong

Cabineo compared with cam and dowel

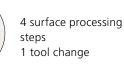
1. Advantages in production

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







Fit Cabineo into top or bottom shelf



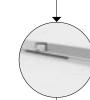
3 surface processing

2 tool changes

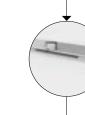
2 edge drill holes 1 tool change



Prepare fitting bag



Flat pack the



workpieces



Insert cam into shelf

the side



Install the screw in the side Insert dowel into

Assemble using a screwdriver

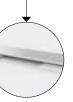
2. Advantages in transportation

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





Flat pack the workpieces





Assemble using a cordless drill

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

Examples of manufacturing and assembly processes

Cabineo



Flatpack workpiece delivery with pre-assembled connector.



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



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



Position top and push towards the furniture side.



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



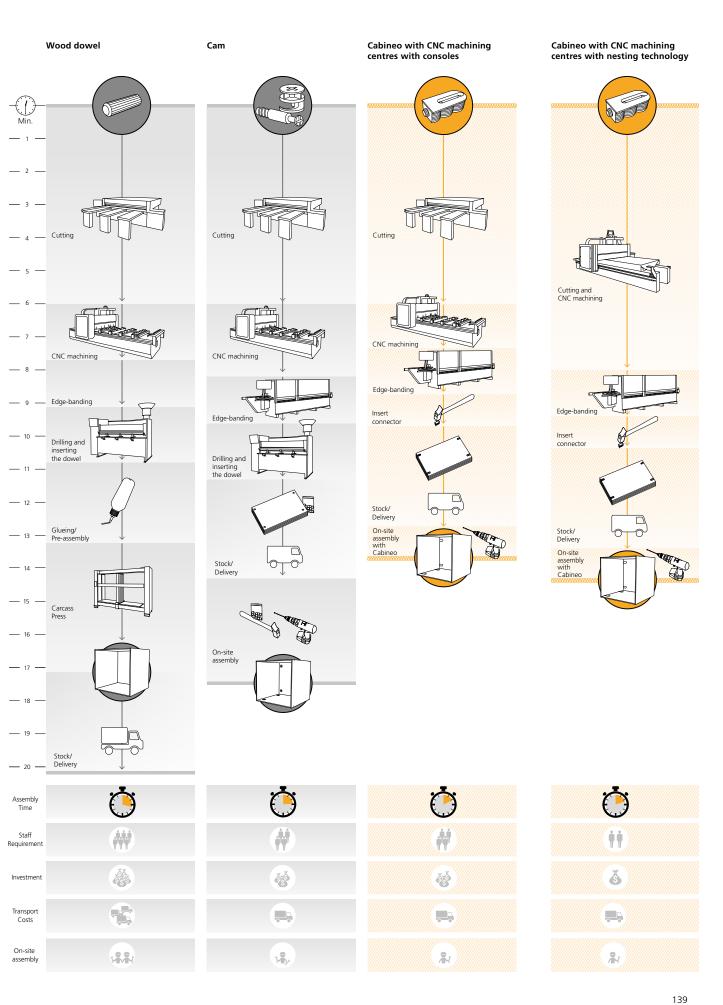
required positions.



Tip:

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

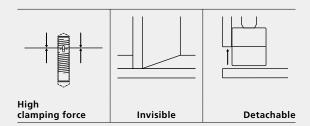




Invis Mx2

Magnet-driven connecting fittings





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 setArt. No.With 14 mm Invis Mx2 stud, 20 pairs6012300



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



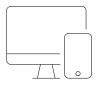
Invis Mx2 Starter set

ector sets, **6100300**

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

www.lamello



Experience the connector live and receive comprehensive product information!





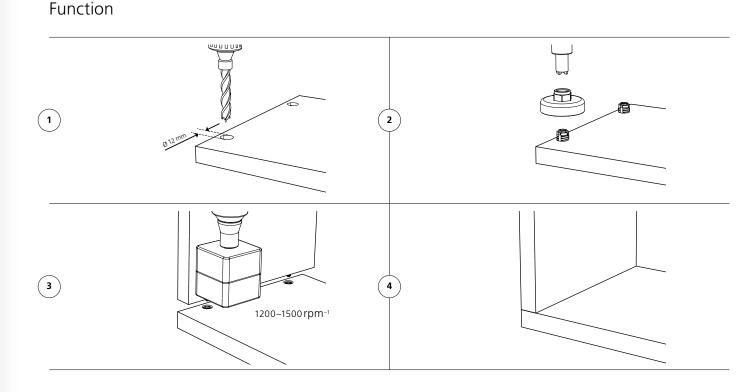








1200-1500 min⁻¹

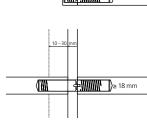


Technical data

Joining methods



≥ 18 mm



Size connector	Ø 12 × 35 mm		
Size stud	Ø 12 mm × 30/14 mm		
Size centre-wall stud	Ø 12 mm × 30 mm		
Drill	Ø 12 mm		
Speed MiniMag	Must be 1200–1500 rpm ⁻¹		
Material housing	Zinc		
Installation tolerace	Long. ± 0.1 mm		
Clamping force per connector	250 kg ¹		
Tensile strength (N) Up to	Connector sets with stud	14 mm	30 mm
	MDF	1500 N¹	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.		

Articles



 Invis Mx2 connector 35 mm
 Art. No.

 20 pieces
 6012317



 Invis Mx2 stud 14 mm
 Art. No.

 20 pieces
 6012312



 Invis Mx2 stud 30 mm
 Art. No.

 20 pieces
 6012309



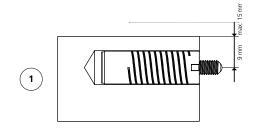
 Invis Mx2 centre wall stud 10 – 30 mm
 Art. No.

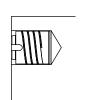
 10 pieces
 6012208

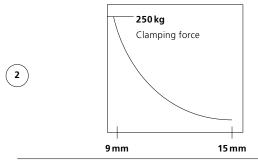


Invis Mx2 MiniMag Art. No.
Incl. screw bit 6100301

Function







Small distance from the edge for high clamping force

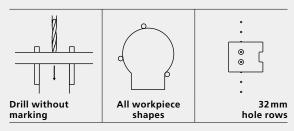


Rasto drill jig

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. No.

In a systainer: 2 transparent perforated plates,

126002

8 drill bushings, 2 × Ø 5, 8, 10, 12 mm,

3 wood drill bits Ø 5, 8, 12 mm, 6 positioning bolts,

2 fastening screws, 1 connection rod,

1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

Rasto Basic set

Art. No.

In a cardboard box: 1 transparent perforated plate, 126005

3 positioning bolts, 1 fastening screw

4 drill bushings Ø 5, 8, 10, 12 mm,

Rasto Mono set

Art. No.

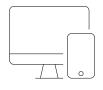
In a systainer: 1 transparent perforated plate, 126001

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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Experience Rasto live and receive comprehensive product information!





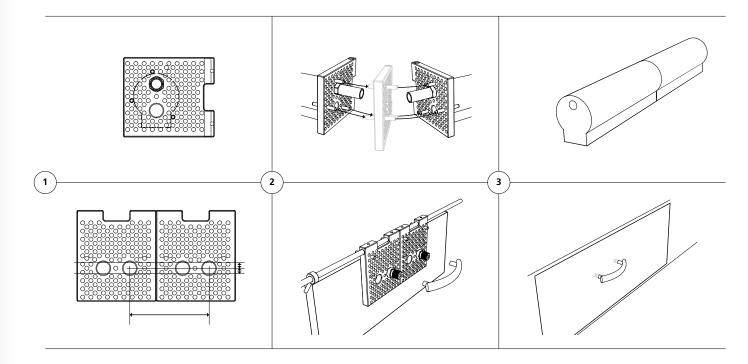








Function

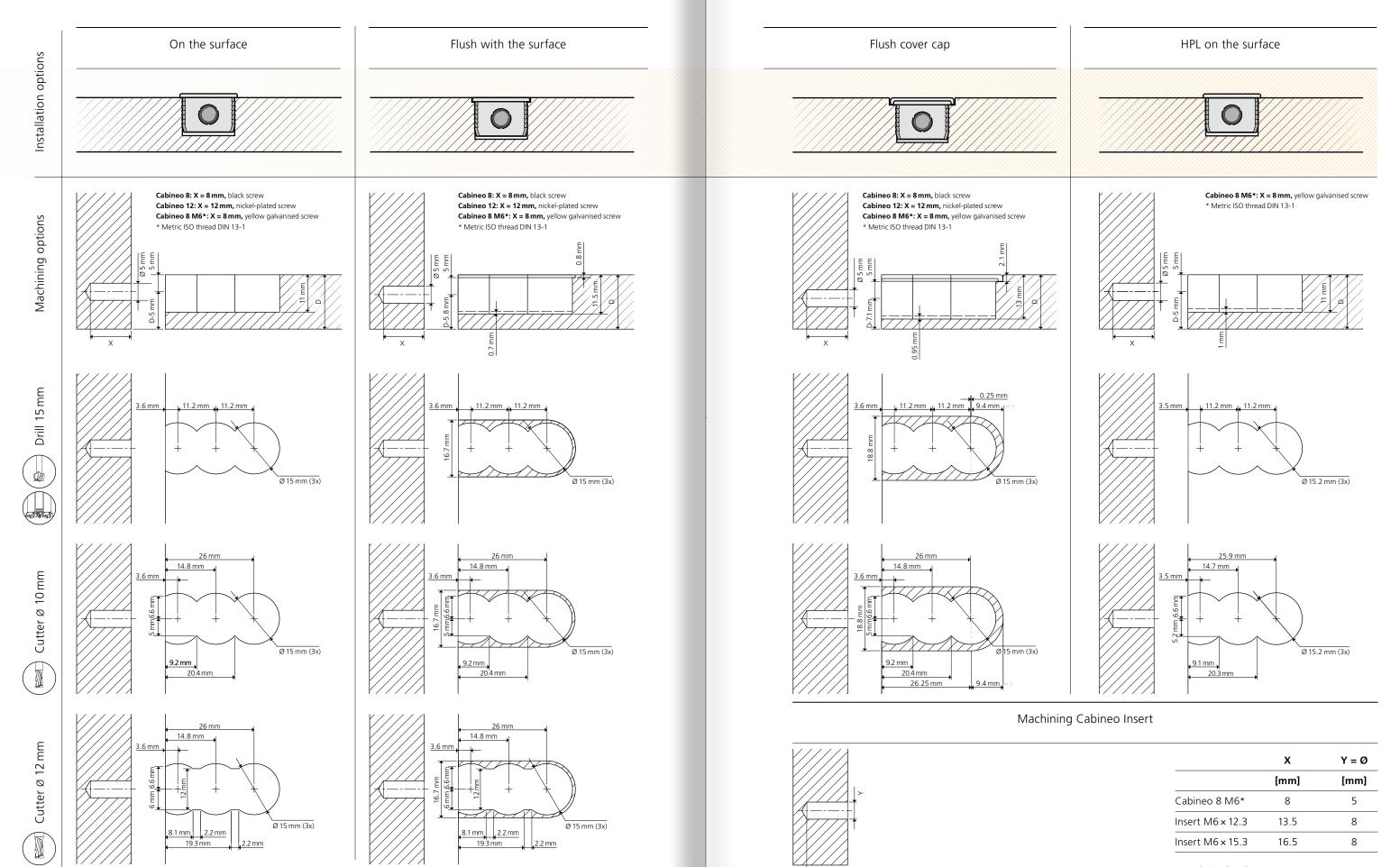


Technical data

Rasto perforated plate	Size Rasto plate	$110 \times 96 \times 12 \text{mm}$	
	Material Rasto plate	Polycarbonate	
32 mm 33 mm			

Technical information

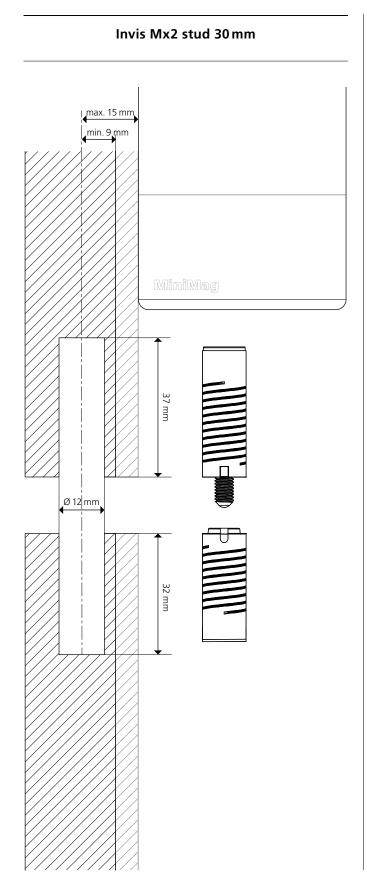
Machining Cabineo

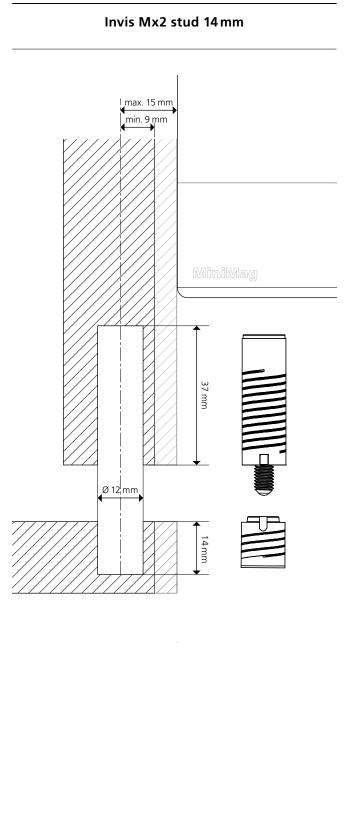


^{*} Metric ISO thread DIN 13-1

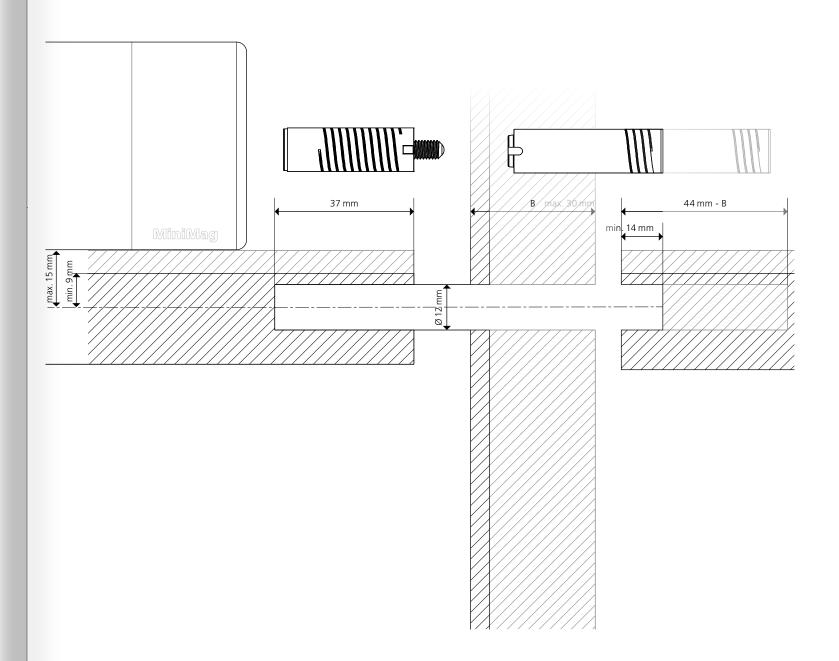
Technical information

Machining Invis Mx2









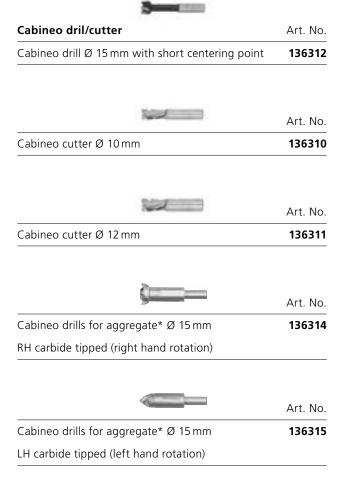
Drilling System



Cabineo



Cabineo installation tool	Art. No.
With handle, incl. hex bit 1/4"	256300
	Art. No.
Cabineo hex bit 1/4"	276312
	Art. No.
Cabineo hex bit 1/4" GL 80 mm	276308
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	276309





Cabineo cover caps	Art. No.		Art. No.
	100 pieces	2	000 pieces
RAL 9003 signal white	1863505	\bigcirc	1863515
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



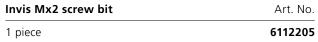
276310

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

Drilling System



Invis Mx2





Invis Mx2 MiniMag	Art. No
Incl. screw bit	6100301



Invis Mx2 flexible shaft	Art. No
1 piece	6100204

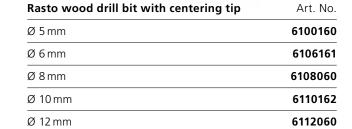


Invis Mx2 insertion jig	Art. No.
For studs 14 mm	6112333



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

Rasto





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



Invis Mx2 spacer	Art. No.
For Rasto	6112331



Rasto perforated plate	Art. No.
1 piece	6160000



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



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

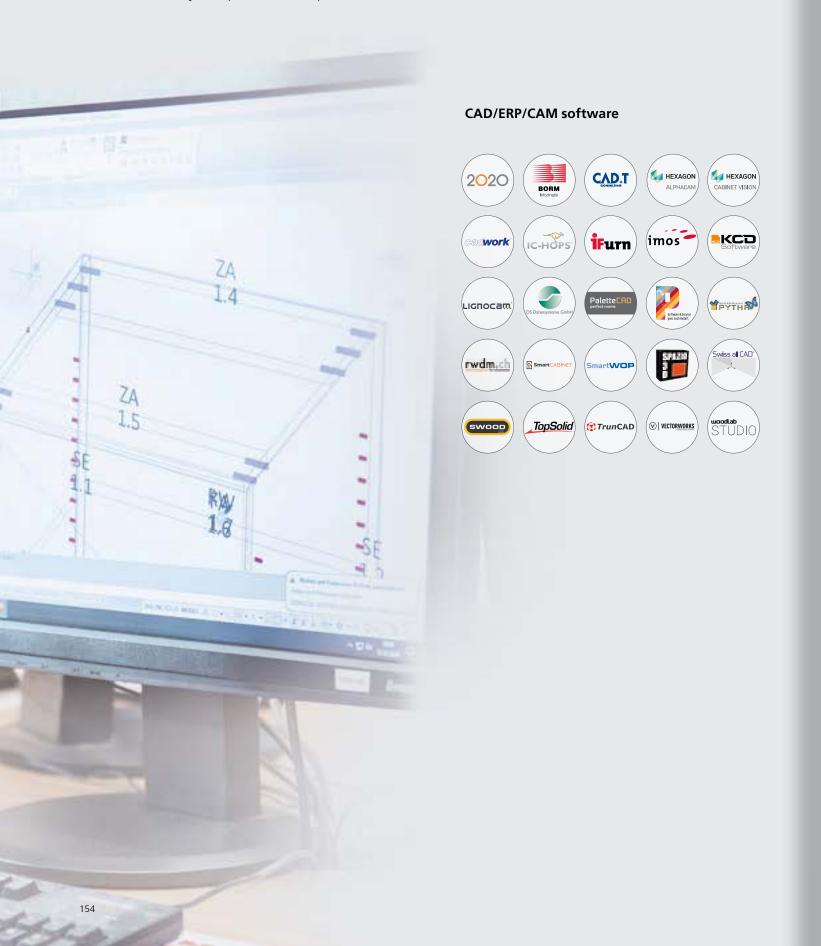
Rasto positioning bolts	Art. No.
Ø 5 × 40 mm	6160001

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

Networked production

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

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







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-processo

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



CNC machine

- Machine with 3/4/5-axis

The number of axes and equipment options influence the processing possibilities



CNC software

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

The macro/component determines/affects the processing possibilities





Suitable aggregate

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

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





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

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

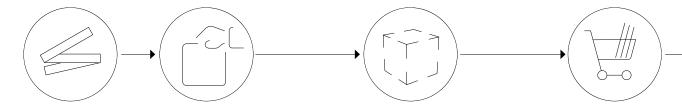
Networked production

Overview of the production process

Enabled by Lamello planning and machining partners



Sequence									
1 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	Cive programming data			



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.



connection to

specialist retailers,

procurement can be

example, this allows

the current prices to

checked and picking

be gueried, availability

both digital data

exchange and

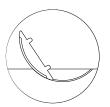
automated. For

implemented.

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



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



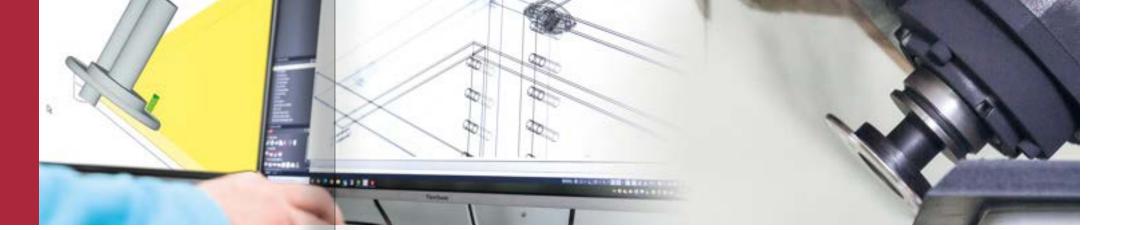
After CNC machining, or if the workpieces are ready for further processing, the edges are glued or the surface is painted and the connectors are then installed.



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

Service overview

Lamello's planning and machining partners



Company Com			_															
Product name Offer / Material management / Ordering Interface with CAD Visualisation / Planning / Construction / Parts list CAD 2D 3D software CAD 2D Software CAD 2D Software CAD 2D Software CAD 3D Sof			1	Plan	ning	j pa	rtn	ers	CAI	D/E	RP	/Confi	gurato	r/C	CAN	l softv	vare	9
Product name Product name ERP software Interface with procurement Interface with CAD Visualisation/ Planning/ Construction/ Parts list CAD 3D software																		
Product name	Company			2020		BRAINSOFTWARE	lite one of allows of	BOILLING		CAD+T		cadwork	direkt CNC-system	()	HEXAGON	iFurn		Imos
Product name				$\overline{}$		_				_								$\overline{}$
Product name				2020			BO	RM restk	C	AD.T		work	NC-HÖPS'	HE	EXAGON	i Furn	imc	, <u>,</u>
Material management / Ordering Interface with procurement Interface with CAD Visualisation / Planning / Construction / Parts list CAD 2D software CAD 3D software COnfigurator Interface with CNC CAD //CAM software	Product name			2020 CAD	SPAZIO3D PROF. + -ENTERP. PLUS	SPAZIO3D JOINERY + INDUSTY 4.0	Pointline CAD	BormBusiness/EVO	Design/Engineer	ERP/Konfigurator	CNC	Configurator	NC Hops	Alphacam	Cabinet Vision		iX CAD 2021	IX CAM 2021
Interface with procurement Interface with CAD Visualisation / Planning / Construction / Parts list CAD 2D software CAD 3D software COnfigurator Interface with CNC CAD /CAM software		ERP software		•				•		•								
Interface with CAD Visualisation / Planning / Construction / Parts list CAD 2D software CAD 3D software Configurator CNC programming data Interface with CNC CAD /CAM software	management/	Interface with procurement			•	•	•	•	•	•					•		•*	
Planning		Interface with CAD			•	•	•	•	•	•	•		•	•				
Construction / Parts list CAD 2D software CAD 3D software Configurator CNC programming data CAD/CAM software CAD/CAM software		Interface with ERP			•	•	•	•	•	•		•	•		•		•	
CAD 2D software • • • • • • • • • • • • • • • • • • •	Construction/	Data cloud for CAD data		•				•		•		•				•		
Configurator		CAD 2D software			•	•	•		•			•	•		•			
CNC programming data Interface with CNC CAD/CAM software Output Description:		CAD 3D software		•	•	•	•		•			•	•		•		•	
CAD/CAM software • • • • • •		Configurator		•	•	•	•			•		•	•		•		*	
CAD/CAM software • • • • • •		Interface with CNC		•	•	•	•		•	•	•	•	•	•	•			•
WOP programming software	data	CAD/CAM software			•	•					•		•	•				•
ISO programming software				•	•	•					•		•	•				

KCD Software	Kosmosoft	LIGNOCAM		OSD Datensysteme		raiettec.AD	7	FIICAIC	PHYTA	Qulity Industriale		Swiss-all-CAD		F. CO GOT		TrunCAD	extragroupe	rwdm.ch	Tibek		Eficad	
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KCD Software	Smart CABINET	LIGNOCAM	ERP/PPS	CAD/CAM	Palette CAD	Palette CAM	ERP P123 Corpora	CAD/CAM P305	3D CAD	woodlab STUDIO	AutoCAD/ZWCAD/BricsCAD	Matrizen – Excel – CAM	Matrizen – ERP – Manager	Wood CAD	Wood CAM	TrunCAD	VECTORWORKS	rwdm.ch	SmartWOP	SWOOD Design	SWOOD Service Center	SWOOD CAM/Nesitng
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Service overview

Lamello's planning and machining partners



		Mach	ninin	g pa	artne	rs C	NC m	achi	nes/	Aggr	egate	es/C	NC t	ools							,														-	
ompany		AES		Biesse			Felder		GANNOMAI		HOLZ-HER		Holzfraese		Homag				КОМО	IMA	INFOTEC	700000000000000000000000000000000000000	ואומאנפן אינסטט	SCM. Morbidelli		Vitap		Atemag	- !	Benz Tools	GROTHEFELD	HSD	Leitz	Leuco	Oertli	
) (⊠BIES	SE		FORM	GANN	omet	(H	AZHER	(<u>#</u>	loizfraes	e e	НЕ НОМА	G		(KOMO	IMA SCHELLING GROUP	INFOTE ON	c	sterwood	scm@g	group	Wit	tap	TEMAS		BENZ	GROTEFELD	HSD	eitz	LEUCO	OERTLI	•
Product name		CNC machines AesWOP	CNC machines	bSolid	NC Hops bCabinet	CNC machines	F4Integrate	wood riash CNC machines	GANNOMAT Editor	CNC machines NC Hops	CabinetControl NEO	3D-Master	CNC machines	Macchine CNC	WoodWOP (1975)				CNC machines	CNC machines	CNC machines	CNC machines	Masterwork/Master 3D	CNC machines Maestro CNC	Xylog Plus	CNC machines	Software TPA	Various		Various	Various	Various	Various	Various	Various	
ffer/	ERP software					-																														
laterial anagement/	Interface with procurement																																			
rdering	Interface with CAD				•				•			•	•							•			•	•			•									
sualisation/	Interface with ERP				•				•			-	•		•								-													
anning / onstruction /	Data cloud for CAD data																																			
rts list	CAD 2D software			•	•		•																				•									
	CAD 3D software			•	•		•					•			•								•				•									
	Configurator				•				• 1		•	•	•		•								•													
NC programming	Interface with CNC	•	4	•	• •		•		•	•	•	•	•		•					•	• 2		•	•			•									
ata	CAD/CAM software	•		•	• •		•			•	•	•	•		•					•			•	•			•									
	WOP programming software	•		•	• •		•		•	•		•	•		•					•				•	•											
	ISO programming software				•		•					•							• 2						•											
IC machining	CNC with consoles	•	•			•				•				•					•	•	• 3	•		•												
	CNC vertical/horizontal (compact)	•	•			•		•		•				•					•		•	•		•		•										
	CNC nesting	•	•			•				•			•	•					•	•	•	•		•												
	Aggregates		•			•				•				•										•		•		•		•	•	•				
	CNC tools																																•	•	•	

P-System with CNC

Joining methods and requirements for CNC machines/machining options

	<i>3</i> 1								1/10					
								-						
CNC machines			With console vertical or h			1				With nesting	technology			
Number of axes			3				4	5		3		5		
				Machining option	Machining option				Machining option	1	Machining option			
Joining methods	Machining									,				
	Access drill hole	U												
	Profile groove in the edge						C				G		G	
	Profile groove on the surface (close to the edge)	IJ	A	E	F		C			E	F	D	A	F
	Profile groove on the surface (centre of the surface)*		A	E	F		C	A		E	F	D	A	F
	Access drill hole 45°						C							
	Access drill hole 45°		B				C							
	Access drill hole 22 – 108°													
	Access drill hole 22 – 108°						C							
164 * The Divario	P-18 can also be used as an alternative connect	ting element in the mi	ddle of the surface. (2	×8mm holes with	out profile groove)		The information co	oncerns technical op	I tions regarding how	the applications could l	be implemented.			165



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

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

More regarding the machining on PAGE 171

The information concerns technical options regarding how the applications could be implemented.

These must be adapted to your company facilities and coordinated with the planning and machining partners.

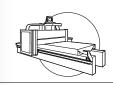
Possible combination of CNC machines with Zeta P2

G









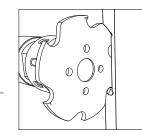


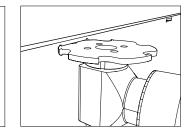


P-System equipment options

For CNC machines for particularly efficient machining







Vertical and horizontal CNC machining centres «CNC compact class»











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

 $\mathbf{0} \cdot \mathbf{Q} \cdot \mathbf{0}$



EVOLUTION 7405 Connect

BIESSE

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

BIESSE

 $1\times$ aggregate for 90° 1× aggregate 45° for 2× 45° 2× P-System CNC groove cutters 1× P-System CNC cutter arbor 1× drill Ø 6 mm





Brema Eko 2.2







0 . 0 . 0







Project TF 100/TF 100 2.0

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

0 . 2 . 6



4morbidelli

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





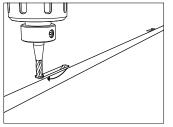
Nextec 7707 1× tool set

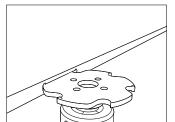
0 . 2 . 8

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

■Vitap

0 . 2 . 6







FORM AT

Creator 950

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

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





GANNO*mat*

ProTec + P-System add-on package

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

0 . 2 . 8



HE HOMAG

DRILLTEQ V-200

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



IE HOMAG

DRILLTEQ V-310

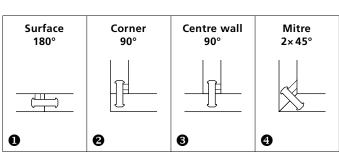
for $180^{\circ} + 90^{\circ}$ joints: woodWOP component «Lamello P-System» 1x P-System tool set

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

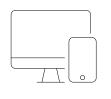
 $\mathbf{0} \cdot \mathbf{2} \cdot \mathbf{3}$



Connectivity



www.lamello



Experience CNC live and receive comprehensive product information!









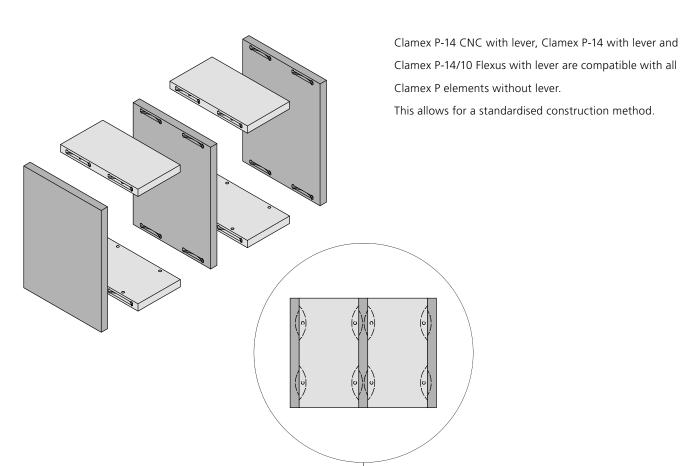






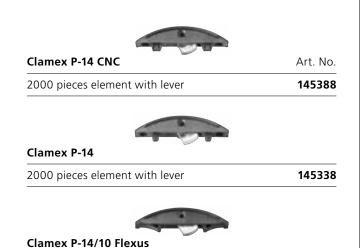
Ideas for standardising

The machining on a CNC machine



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

2000 pieces element with lever



145318

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

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

Possible combination of CNC machines with Zeta P2

Precise drilling on a CNC machine; use these drill holes to position the Zeta P2 to cut the P-System grooves.

This application is especially ideal if the CNC machine is a nesting machine and or no aggregate is available.

This method combines the precision and efficiency of a CNC machine and uses the simple and fast machining of a P-System groove with a Zeta P2.

Positioning drill holes for the Zeta P2









Positioning pin CNC for Zeta P2,

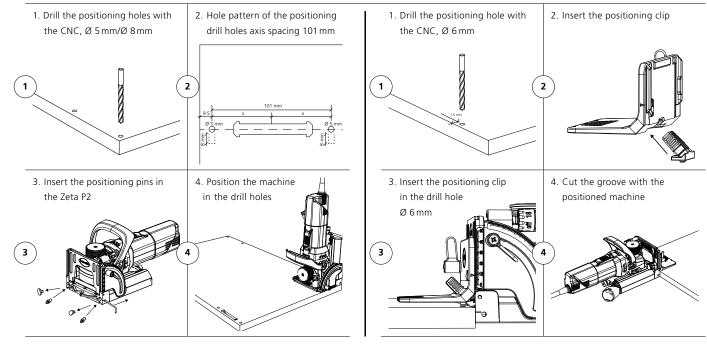
2 pieces	Art. No.
Ø 5 mm	251048
Ø8mm	251066

Positioning clip CNC

for Zeta P2	Art. No.
Ø 6 mm	251067
for positioning in the Clampy P	

access hole (6 mm)

Machining steps



Cabineo with CNC

Specific equipment options for CNC machines for Cabineo





CNC machine

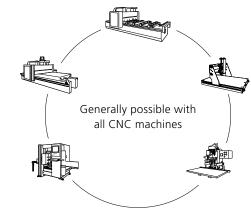
Homag CENTATEQ N-600

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!















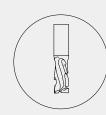
CNC tools - aggregate

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



CNC tools

Leuco triple drill

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

Leitz triple drill

Leuco triple drill set for Cabineo aggregate.













CNC tools

For the P-System



P-System CNC tools



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



P-System groove cutter CNC DP (diamond),

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



Art. No.

 \varnothing 100.4×7× \varnothing 30 mm, Z6, NL 4× \varnothing 6.6× \varnothing 48 mm **132145** suitable for all all P-System CNC cutter arbor listed on the right



Art. No.

 \varnothing 100.4×7× \varnothing 40 mm, Z3, NL 4× \varnothing 5.5× \varnothing 52 mm **132143** E.g. for angle aggregates and FLEX5+C/5-MOTION PLUS



Art. No.

Ø $100.4 \times 7 \times Ø$ 16 mm, Z3, NL $4 \times Ø$ 5.5 $\times Ø$ 28 mm **132144** E.g. for corner notching aggregate



Art. No.

Ø 100.4×7ר 35 mm, Z3, NL 4ר 5.5ר 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×M4ר 48 mm	Art. No.
Shaft Ø 20 × 50 mm, L = 102 mm	132150



Shaft Ø 25 × 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.

Art. No.

Shaft \emptyset 16 × 50 mm, L = 85 mm, with clamping **132154** surface (2°- angle) e.g. for aggregate for door locks



Art. No.
132155

132159

with clamping surface (2°- angle)

e.g. for aggregate for door locks

M6 × 16 mm Torx countersunk bolt, 4 pieces,

Shaft \emptyset 20 × 50 mm, L = 85 mm,

suitable for cutter arbors

Screwdriver with cross-grip, Torx T20 × 100 mm

271919

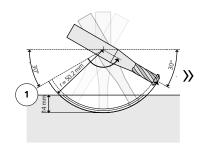


P-System CNC shaft tool cutter Art. No.

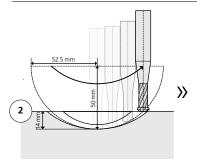
HW solid (carbide), shaft Ø 12 × 40 mm, L = 80 mm

131342

One tool with 2 functions



P-System CNC shaft tool cutter with 5-axis



P-System CNC shaft tool cutter with 3-axis

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

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

CNC tools

For Cabineo



Drilling System

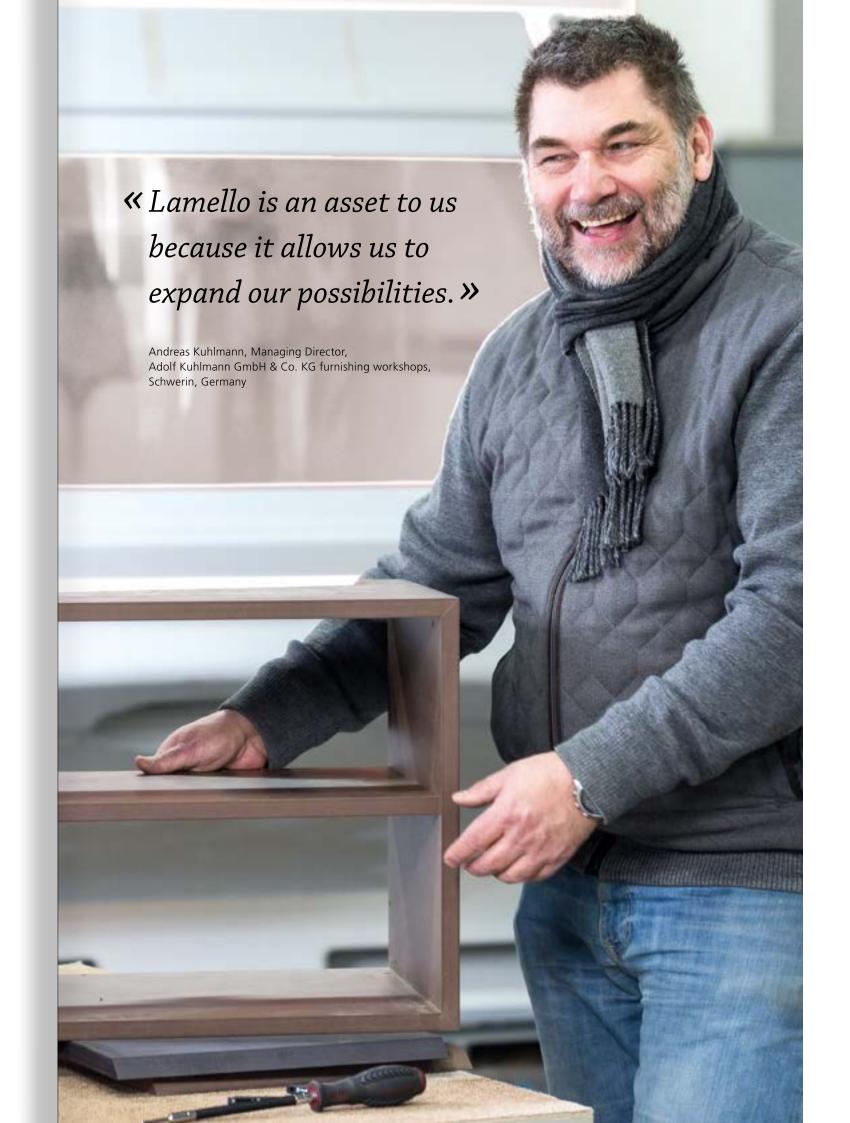
Cabineo dril/cutter

5	Art. No
Cabineo drill Ø 15 mm with short centering point	13631
	Art. No
Cabineo cutter Ø 10 mm	13631
	Art. No
Cabineo cutter Ø 12 mm	13631

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)	

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





P-System



P-System



P-System connector assortment

professional	Art. No.
Scope of delivery: 120 pairs Clamex P-14,	145323
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.
In Systainer3 M187, scope of delivery:	145321
80 pairs Clamex P-14, 80 pairs Tenso P-14,	
incl. preload clip, 30 pairs Clamex P-14/10 Medius,	
30 pairs Clamex P14/10 Flexus, 20 pieces Bisco P-14	and
Tenso P-14/10 preload tool	

Clamex P





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







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

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







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



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



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

P-System



Combination CNC and Zeta P2



Positioning pin CNC for Zeta P2*,

2 pieces	Art. No.
Ø5mm	251048
Ø8mm	251066



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

Tenso P



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



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

Divario P



Divario P-18 Marking jig metal with

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



Divario P-18 Marking jig plastic,

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



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



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

Zeta P2



Stop square for

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







Spacer for Zeta P2, Top 21, Classic X	Art. No
5 mm, aluminium for 18 mm panels	25302
2 mm, plastic for 16 mm panels	253023
4 mm, plastic for mitres	253020



P-System groove cutter DP (diamond),

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



P-System groove cutter HW (carbide),

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



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

Batteries



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



Battery pack 18 V, LiHD 5.5 Ah 313015

Art. No.



Art. No. Battery charger ASC 55 123100

* For detailed information, see PAGE 166/171

Lamello System

Lamello System



Stop square for

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







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



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



Groove cutter HW (carbide),

Ø 100×4ר 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, with spacer 132106 for Classic X

Groove cutter HW (carbide),

Ø 78×3ר 22mm Art. No.

Z4, 4 Screw holes, with hub for original wooden biscuit H9 for Zeta P2/Top 21/Classic X



Groove cutter HW (carbide) with reversible blades,

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



Groove cutter HW (carbide) with reversible blades,

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



Groove cutter HW (carbide) with reversible blades,

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



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

Batteries



Art. No.

Battery pack 18 V, LiHD 4.0 Ah

313013



Battery pack 18 V, LiHD 5.5 Ah **313015**



Art. No.

Art. No.

Battery charger ASC 55 123100

Lamello System

Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine	251057
for 7eta P2/Ton 21/Classic X	





Carbide tipped saw blades HW (carbide)

Art. No.
132350



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





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





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

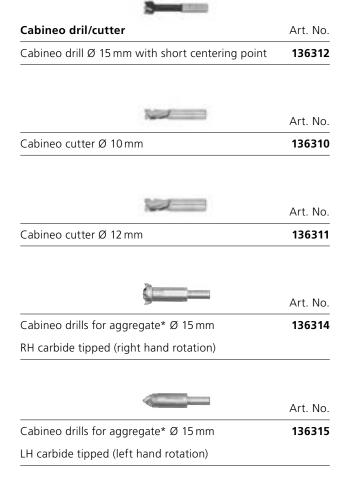
Drilling System



Cabineo



Cabineo installation tool	Art. No.
With handle, incl. hex bit 1/4"	256300
	Art No.
Cabineo hex bit 1/4"	Art. No. 276312
	Art. No.
Cabineo hex bit 1/4" GL 80 mm	276308
Cabineo hex bit 1/4" GL 80 mm, 100 pieces	276309





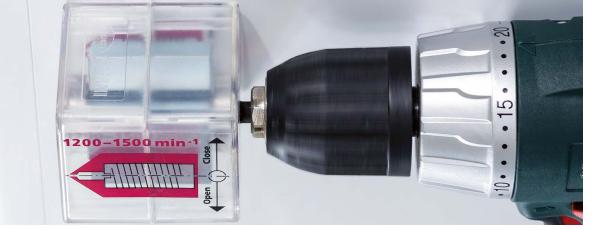
Cabineo cover caps	Art. No.		Art. No.
	100 pieces	2	2000 pieces
RAL 9003 signal white	1863505	\bigcirc	1863515
RAL 9010 pure white	186350W		186351W
RAL 9018 papyrus white	186350P		186351P
RAL 1015 light ivory	186350H		186351H
RAL 1011 brown beige	186350B		186351B
RAL 8007 fawn brown	186350R		186351R
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



276310

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

Drilling System



Invis Mx2





Invis Mx2 MiniMag	Art. No
Incl. screw bit	610030°



Invis Mx2 flexible shaft	Art. No.
1 piece	6100204

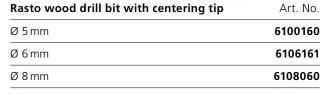


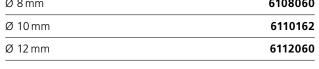
Invis Mx2 insertion jig	Art. No
For studs 14 mm	6112333



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









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



Invis Mx2 spacer	Art. No.
For Rasto	6112331



Rasto perforated plate	Art. No
1 piece	6160000



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



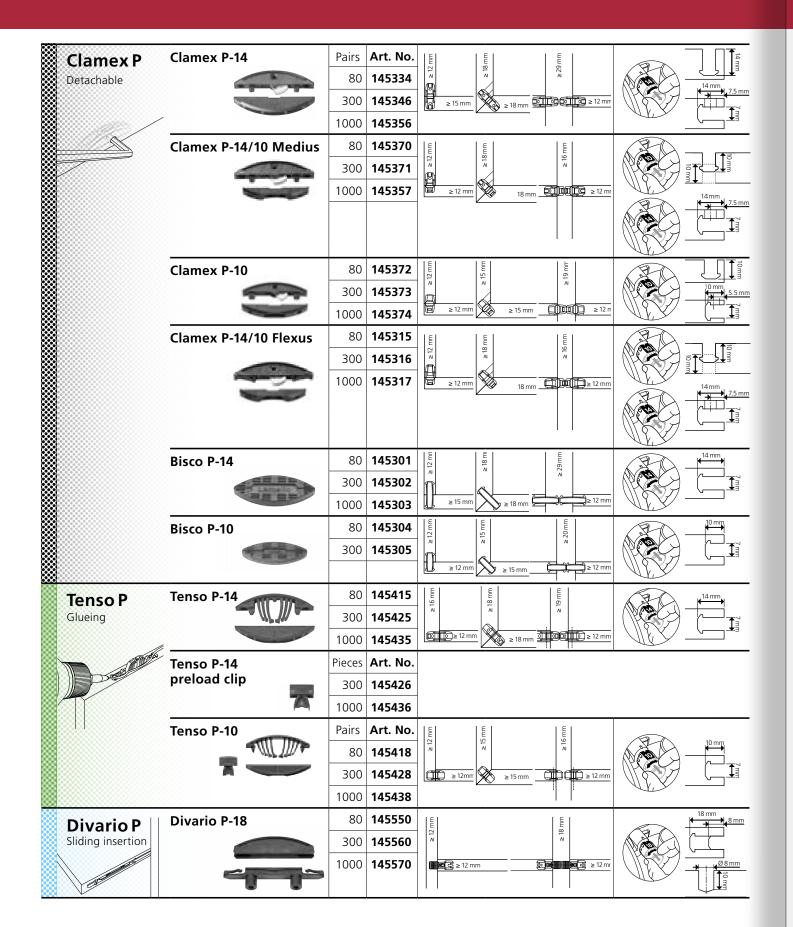
Rasto fixing screw	Art. No.
4.5 × 35 mm, TX 25	6560450

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

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

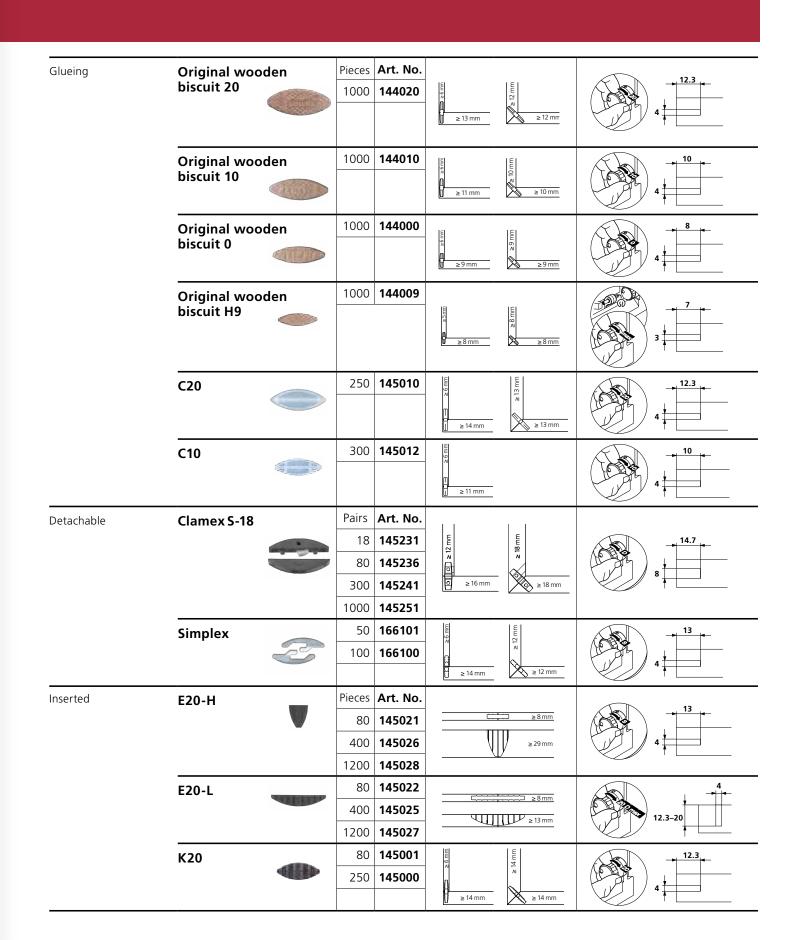
Overview of connectors

P-System



Overview of connectors

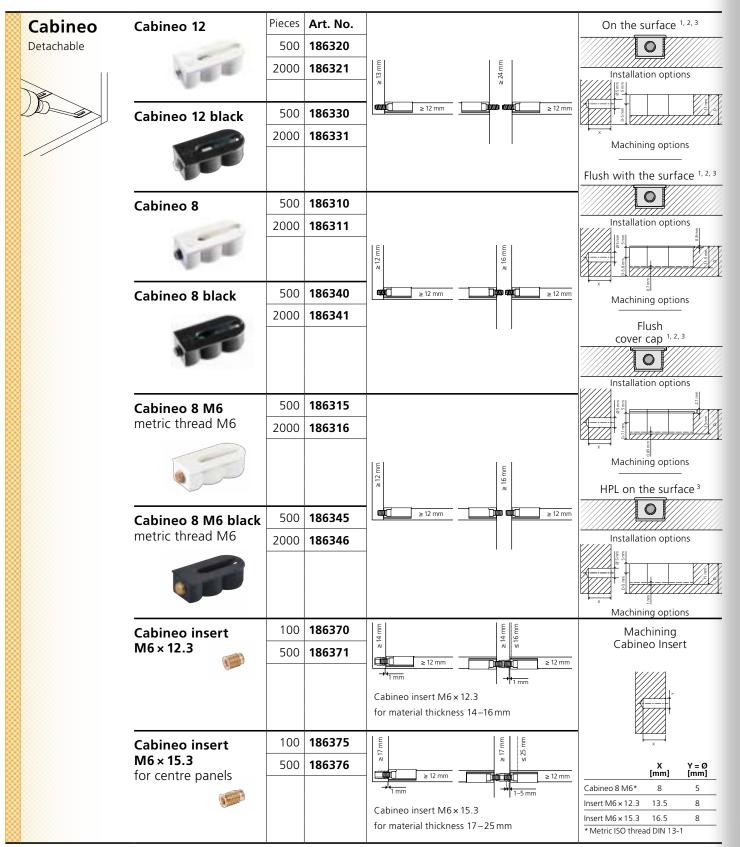
Lamello System

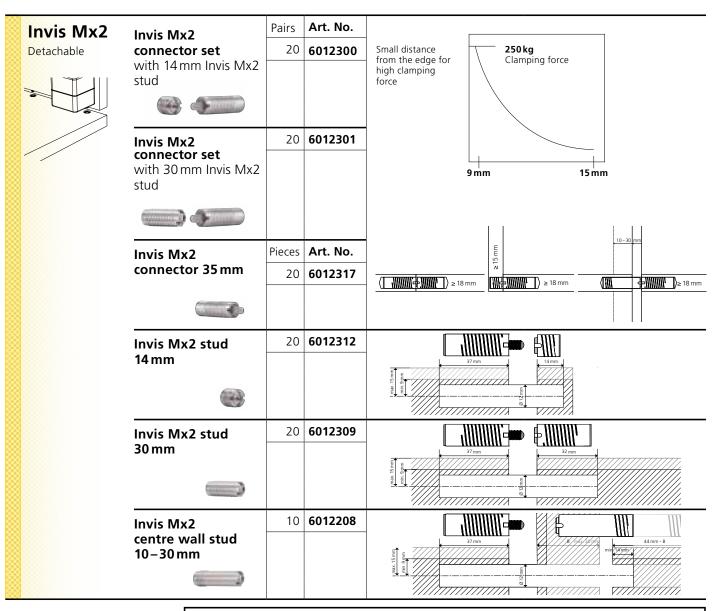


Overview of connectors

Drilling System

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





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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