Lamello

Catalogue

2023/2024 english



A strong connection.
Inspiring.



Content



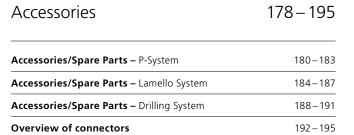
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Subject to modifications and amendments

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Accessories/Spare Parts – P-System

70-73





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

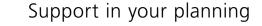
Do you have any questions concerning our products or a certain application? Would you like to learn more about the process benefits for your business? Our qualified employees and sales partners will be happy to help you quickly and competently, whether by telephone, online or during a personal support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

Latest news

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



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



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.

2

Competent planning and machining partners

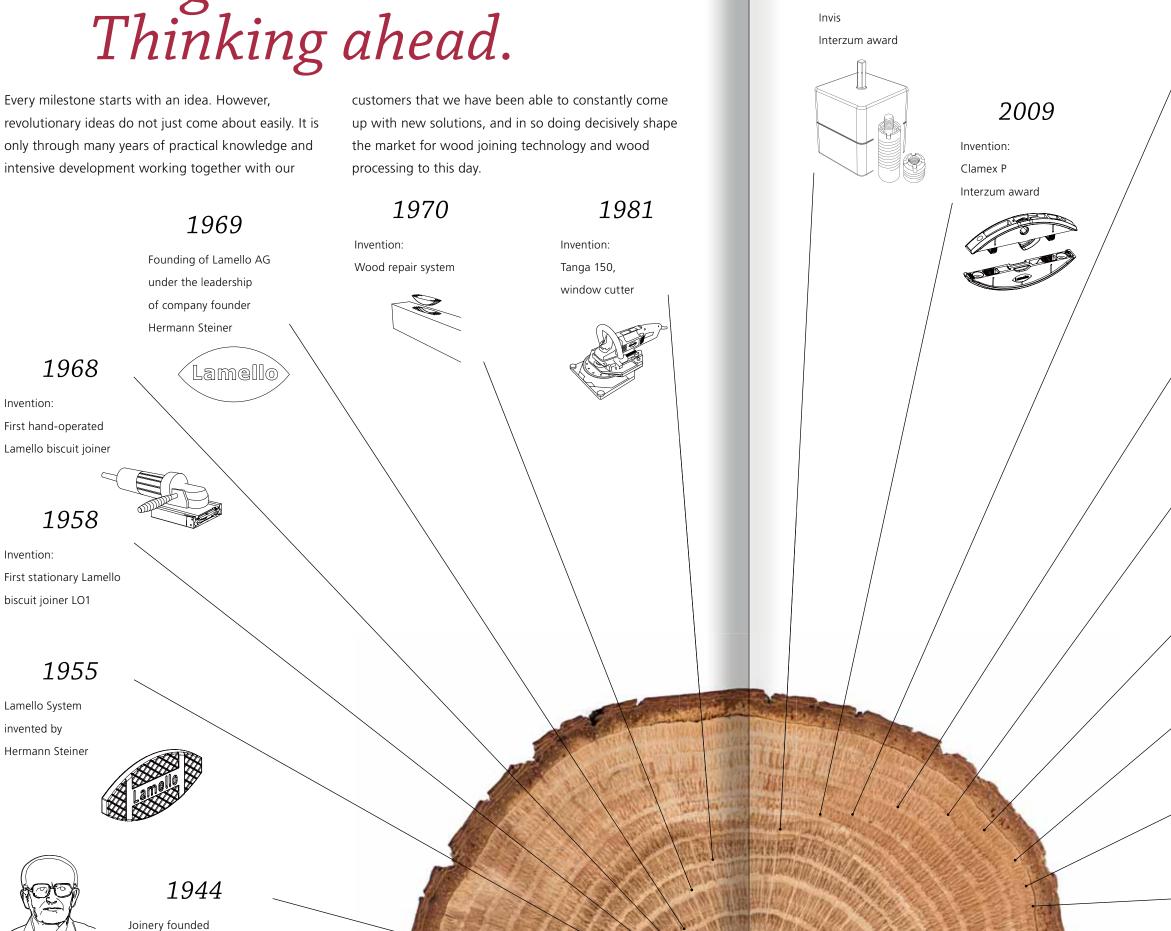
From planning and design to the right tool to machine with the CNC machine: more than 40 industry-leading partner companies support the efficient use and integration of our products into your production.



P-System configurator

Looking back. Thinking ahead.

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



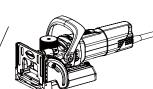
2010

Zeta, power tool for

2001

Invention:

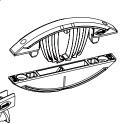
the P-System



2013

Invention:

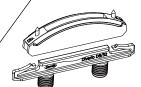
Tenso P-14 Interzum award



2015

Invention: Divario P-18

Interzum award



2017

Invention:

Cabineo CNC connector



2019

Invention: Tenso P-10

Interzum Award



Invention:

Clamex P-14/10 Flexus Interzum award

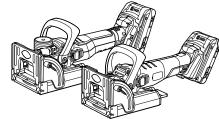
2020



2022

Introduction: Zeta P2 cordless and

Classic X cordless



by Hermann Steiner

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.»

Günther Schweiger

Speedmaster Managing Director, Eberstalzell, Austria

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



ᅫ



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.







Independent & self-determined

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

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

Personal & unconstrained

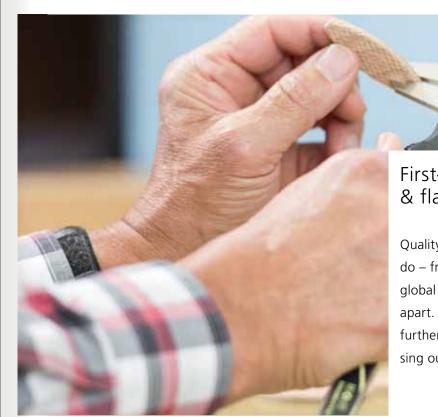
As a family company, we cultivate a culture of appreciation. We encourage initiative in our employees and support them in taking on new responsibilities. In striving for improvement we always look for fast and pragmatic solutions.



Inventive & imaginative

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





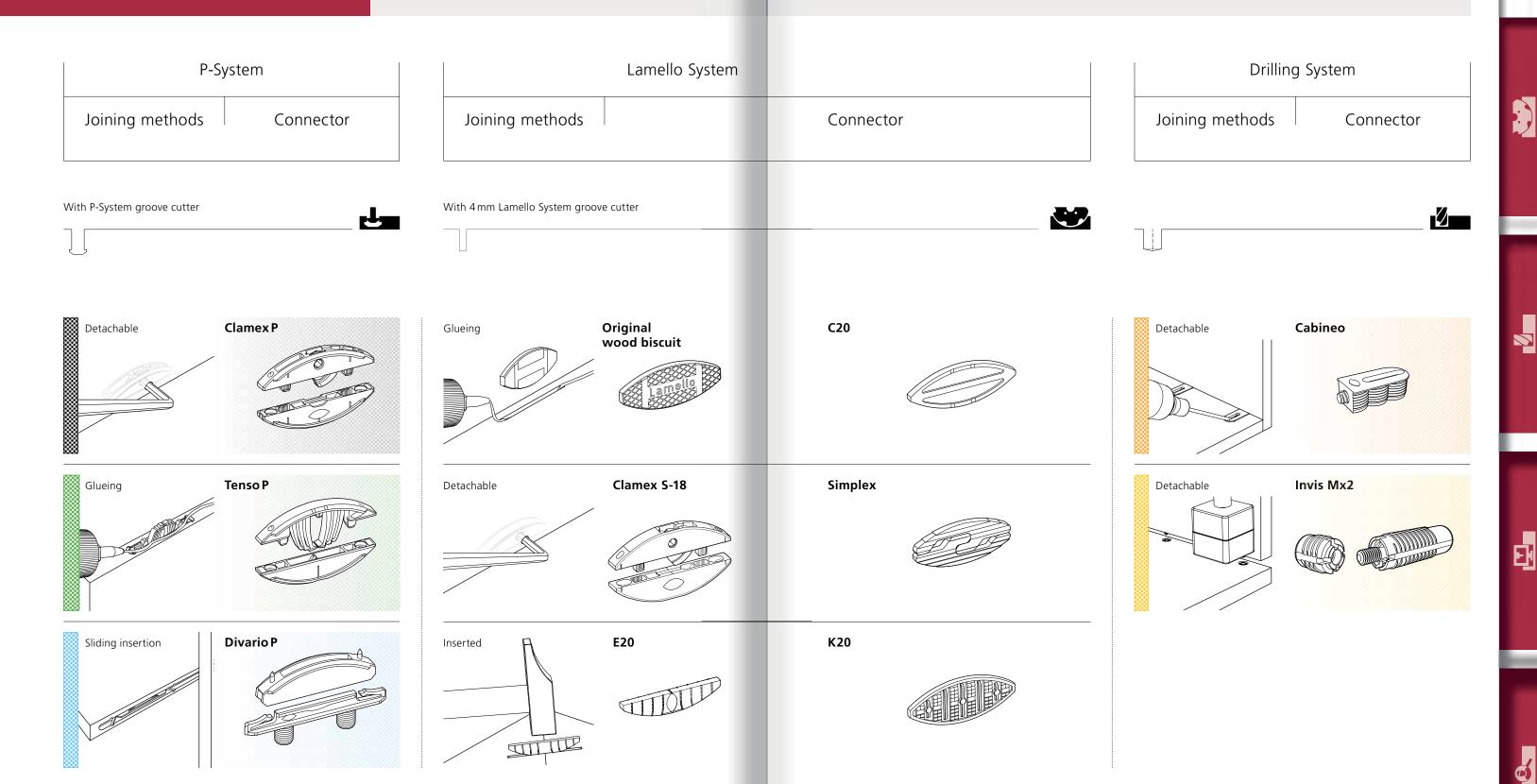
First-class & flawless

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

Systems

- P-System
- Lamello System
- Drilling System

Overview



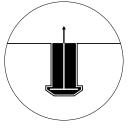


Features



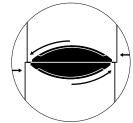
Fast installation

Inserting instead of screwing or glueing



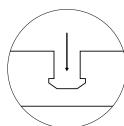
Strong

Form-locking anchorage across large surface areas



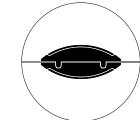
Lateral tolerance

Perfect, flush alignment of both workpieces



Shallow depth

Minimal cutting depth with maximum tensile strength



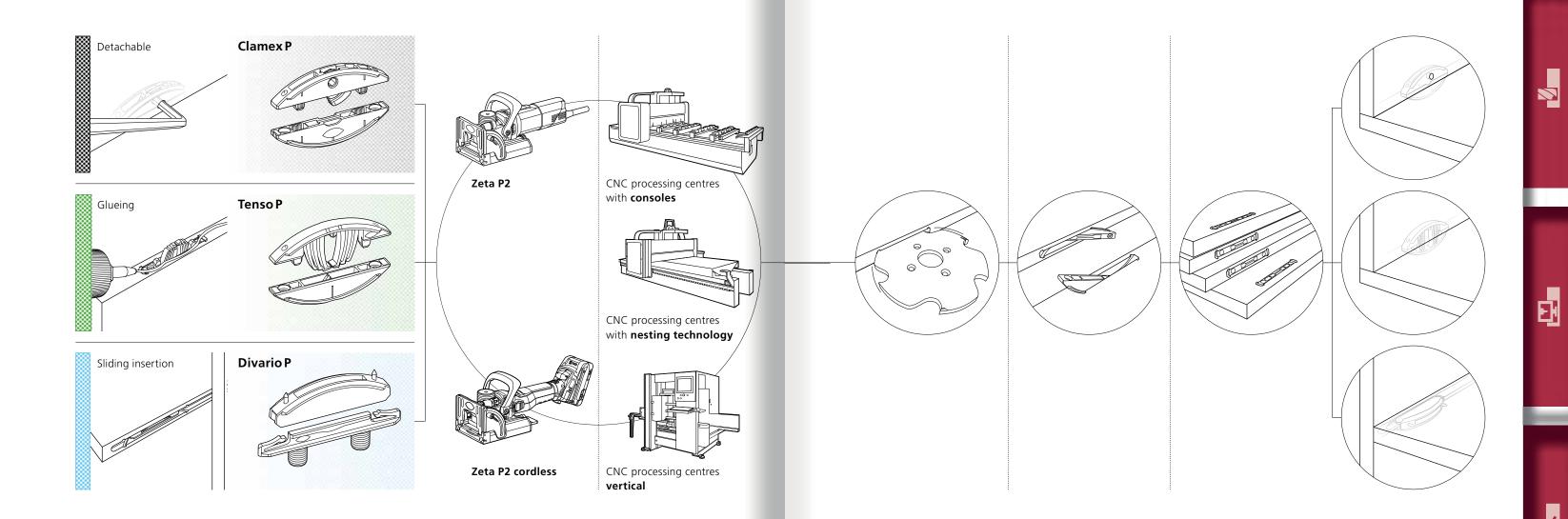
No twisting

The positioning pins prevent twisting without additional dowels

P-System

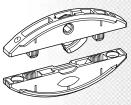
Overview

Joining methods C	onnector	Machines			Sequ	ence	
	Po	ower tool	CNC machines	1 Cut	2 Insert the connector	3 Deliver flat pack	4 Connect the workpieces



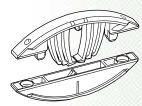
Connectors

Features overview



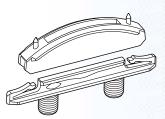
Clamex P

Detachable furniture connector



Tenso P

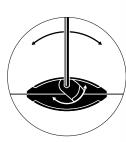
Self-clamping connector for glueing



Divario P

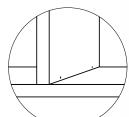
Self-clamping, invisible connector for slide insertion

Features



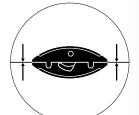
Detachable

Open the connection time and time again with the rotating lever



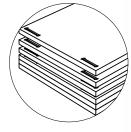
Aesthetic

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



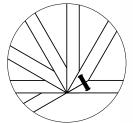
High clamping force

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



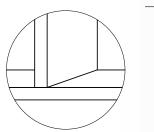
Versatile

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



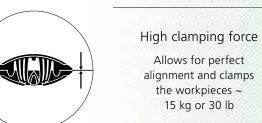
Glueing

Fixed joints of two workpieces



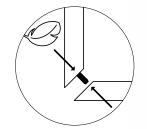
Invisible

No visible connector



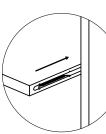
Simple glueing of mitre joints

Versatile



Lower assembly force

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



Sliding insertion

Į.

Insertion between two fixed sides or shelves via a guiding groove



Invisible

Guiding groove covers the connectors



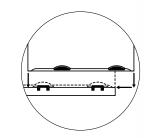
Clamped joint

No resistance while inserting until shortly before building the clamping force



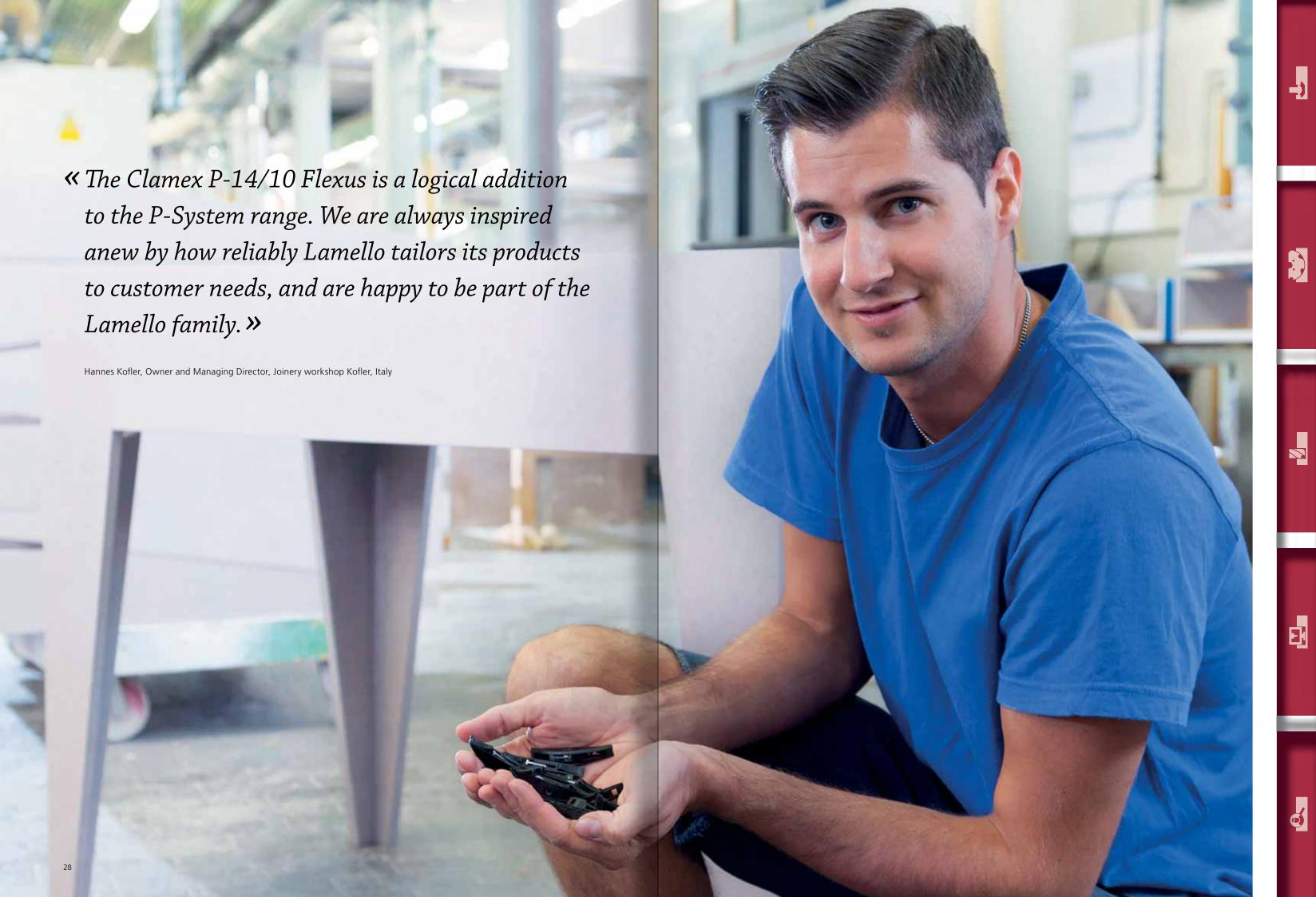
Fast installation

Quick installation of the connectors without glue after transport



Assemble by sliding

Partially routed guiding groove for completely invisible furniture joints



P-System

Applications

Furniture manufacturing

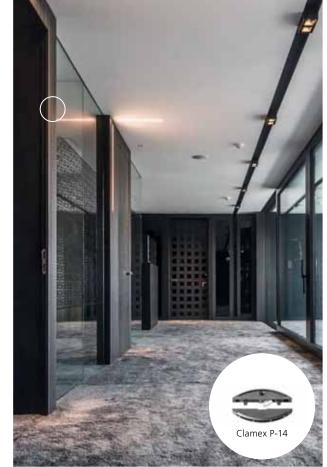






Interior fitting









1

P-System

Applications

Kitchen manufacturing





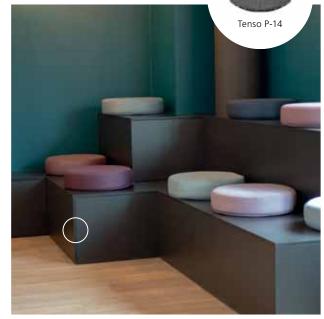












Shop fitting

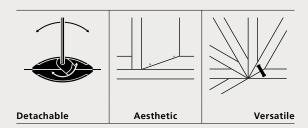
32

Clamex P-14

Detachable furniture connector



Features



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

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

Clamex P-14 eliminates the need for glue, allows aesthetic joints at all angles and is ideal for permanently joined or detachable mitres.

Clamex P-14 is used on mitre joints from 18 mm material thickness and in butt joints from 15 mm.

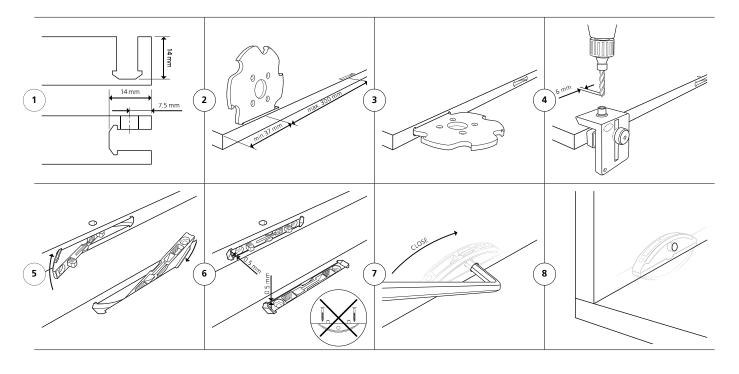


Articles



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

Function



www.lamello



Experience the connector live and receive comprehensive product information!













Technical data

Joining methods	Size	64×27×	9.7 mm	
	Cutter	Ø 100.4	Ø 100.4×7ר 22 mm	
E	Material connector	Fiberglas	ss reinforced plastic	
N N N N N N N N N N	Material of lever	Zinc die	cast	
≥ 15 mm ≥ 18 mm	Installation tolerance	Long. ±	1 mm/radial ± 1 mm	
	Tensile strength (N)	MDF	Particle board	Beech
I I	Up to	900¹	8001	1000 ¹
	Material range	Particle I	poard, MDF, plywood,	softwood

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

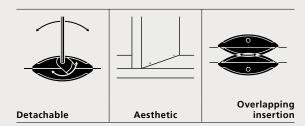
¹ See comment on load limits on **PAGE 195**

Clamex P-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.

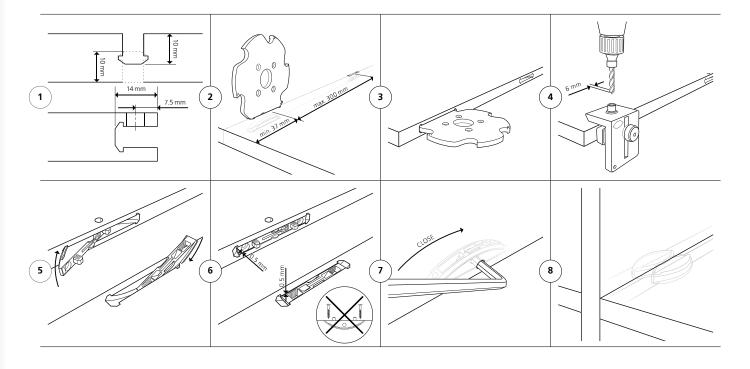
The connector for divisions has two installation depths and is used when two shelves are attached to the same dividing panel at the same height. Due to the reduced installation depth of 10 mm, the minimal thickness for the division is 16 mm.

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 E	Size		5 × 9.7 mm × 9.7 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 l hardwoo	board, MDF, plywood, od etc.	softwood,	

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

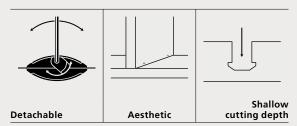
¹ See comment on load limits on **PAGE 195**

Clamex P-10

Detachable connector for materials from 12 mm thickness



Features

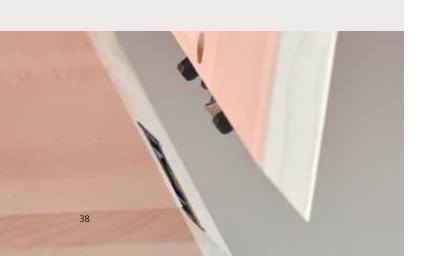


Clamex P-10 is a detachable connector and is anchored in the form-locking P-System groove within seconds.

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.

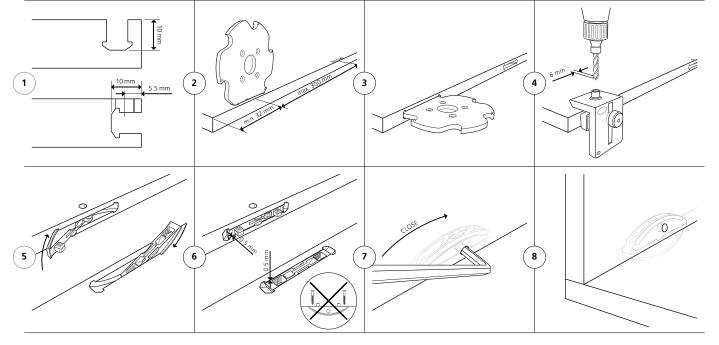


Articles

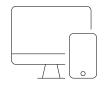


Clamex P-10	Art. No.
80 pairs	145372
300 pairs	145373
1000 pairs	145374
2000 pieces element without lever	145358

Function



www.lamello



Experience the connector live and receive comprehensive product information!







Technical data

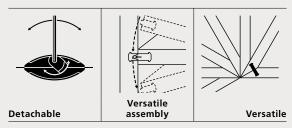
Joining methods	Size	$52 \times 19 \times 9.7 \mathrm{mm}$
	Cutter	Ø 100.4×7ר 22 mm
	Material connector	Fiberglass reinforced plastic
2 12 mm 2 15 mm 2 15 mm 2 19 mm	Material of lever	Zinc die cast
	Installation tolerance	Long. ± 0.5 mm/radial ± 0.5 mm
≥ 15 mm ≥ 1	Tensile strength (N)	MDF Particle board Beech
	Up to	600 ¹ 600 ¹ 900 ¹
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.

Clamex P-14/10 Flexus

Detachable furniture connector with flexible positioning pins



Features



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

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

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

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



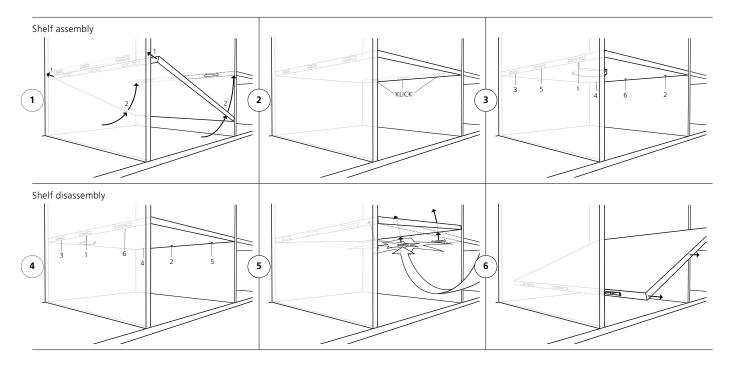
Articles





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

Function



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Experience the connector live and receive comprehensive product information!







Technical data

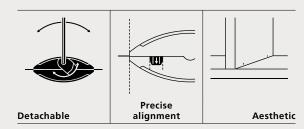
Joining methods	Size		5 × 9.7 mm × 9.7 mm	
	Cutter	Ø 100.4	×7ר 22 mm	
12 mm 18 mm 16 mm	Material connector	Fiberglas	ss reinforced plastic	
2 8 7 9 9 9	Material of lever	Zinc die	cast	
≥ 12 mm 18 mm = ≥ 12 r	Installation tolerance	Long. ±	0 mm/radial ± 1 mm	
	Tensile strength (N) Up to	MDF 720 ¹	Particle board 600 ¹	Beech 810 ¹
	Material range	Particle hardwoo	board, MDF, plywood, od etc.	softwood,

Clamex P-14 CNC

Detachable furniture connector with precise alignment



Features



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

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

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

Articles



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



Clamex P-14Art. No.2000 pieces element without lever145339

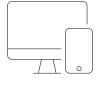


Clamex P-10Art. No.2000 pieces element without lever145358



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

www.lamello



Experience the connector live and receive comprehensive product information!





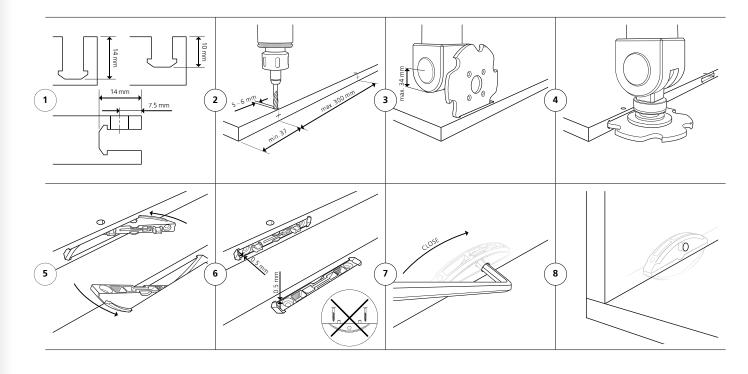




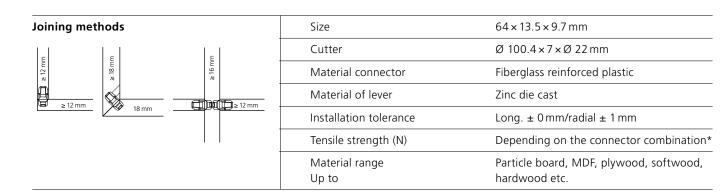




Function



Technical data



Advantages of the Clamex P

Detachable furniture connector



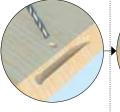
1. Advantages Advantages in production in transportation in assembly

- 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



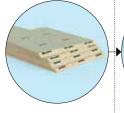
Machining with
a Zeta P2 or
CNC machine



2. Only one tool change



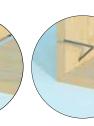
3.
Tool-free
connector
installation



Flat pack

delivery

Versatile for all angles and joining situations



Strong and detachable connection

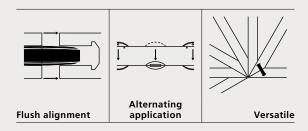


Bisco P

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

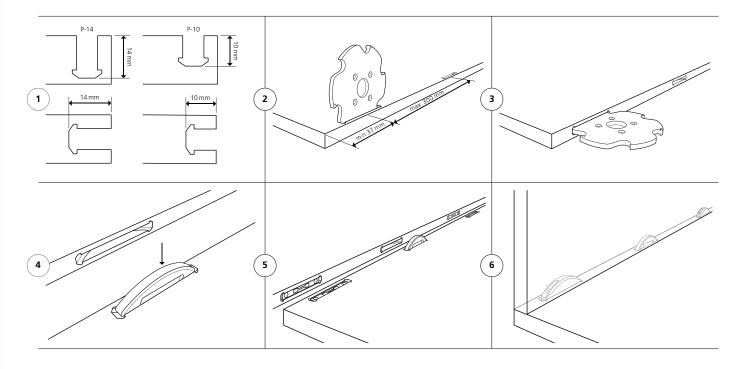


Bisco P-14	Art. No.
80 pieces	145301
300 pieces	145302
1000 pieces	145303



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

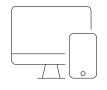
Function



Technical data

oining methods	Bisco P-14	
18 mm 29 mm 29 mm	Size	65 × 27 × 7 mm
2 × 18 mm = 18 mm = 2 × 18 mm = 1 × 19 mm	Cutter	Ø 100.4×7ר 22 mm
≥ 15 mm ≥ 18 mm	Material connector	Plastic
	Installation tolerance	Long. ± 2 mm
	Tensile strength (N)	Depending on the connector combination*
	Bisco P-10	
12 mm 20 mm	Size	52 × 19 × 7 mm
2 20	Cutter	Ø 100.4×7ר 22 mm
12 mm ≥ 12 mm	Material connector	Plastic
	Installation tolerance	Long. ± 2 mm
	Tensile strength (N)	Depending on the connector combination*
	Material range	Particle board, MDF, plywood, softwood, hardwood etc.

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Experience the connector live and receive comprehensive product information!















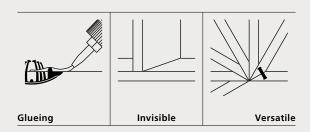


Tenso P-14

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!





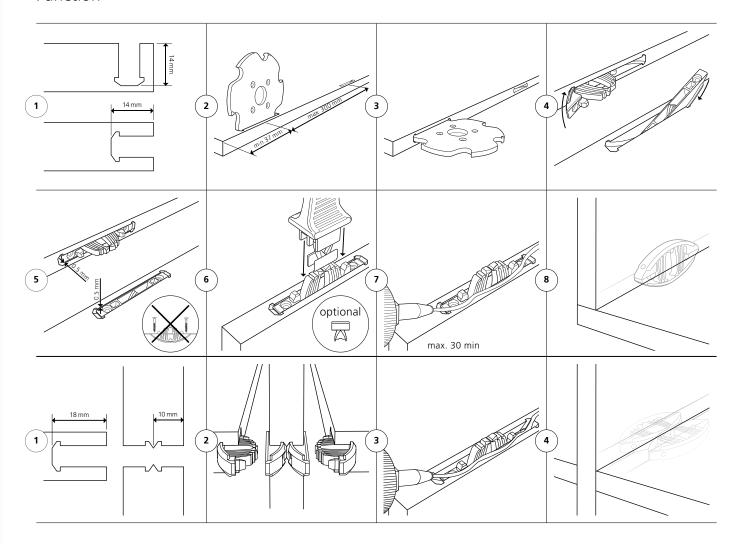






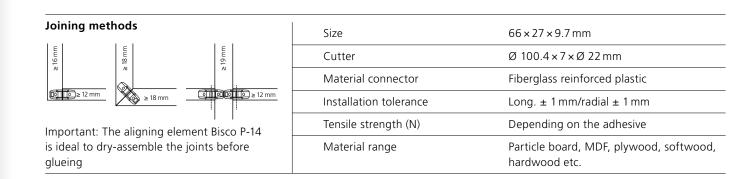


Function



2

Technical data

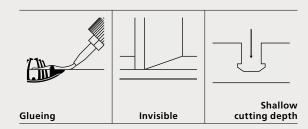


Tenso P-10

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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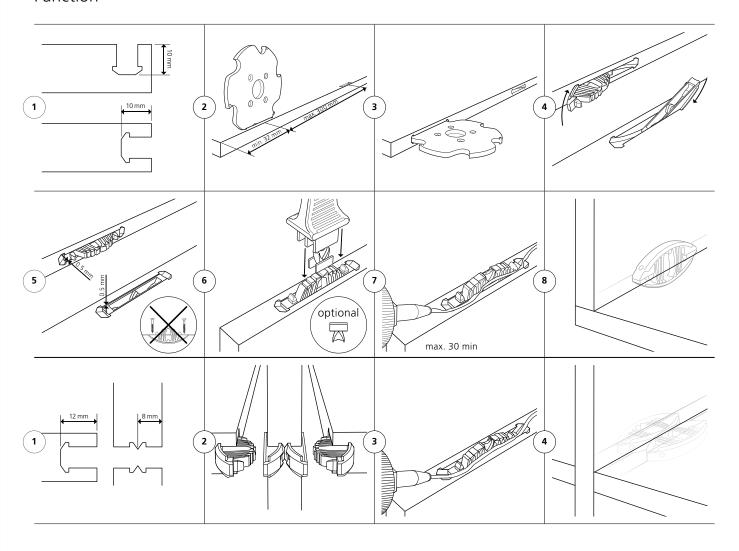
Experience the connector live and receive comprehensive product information!



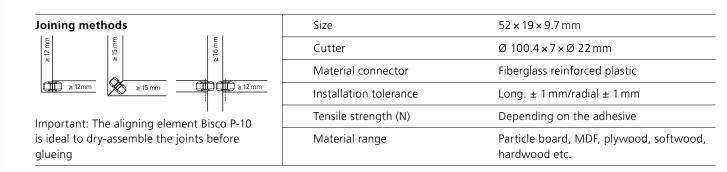




Function



Technical data

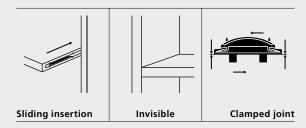


Divario P-18

Self-clamping, invisible connector for slide insertion



Features



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

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

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

Articles



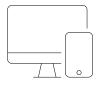


Divario P-18	Art. No.
80 pairs	145550
300 pairs	145560
1000 pairs	145570
2000 pieces, element	145520
for P-System groove	
2000 pieces, element	145540
for drill holes	_



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

www.lamello



Experience the connector live and receive comprehensive product information!





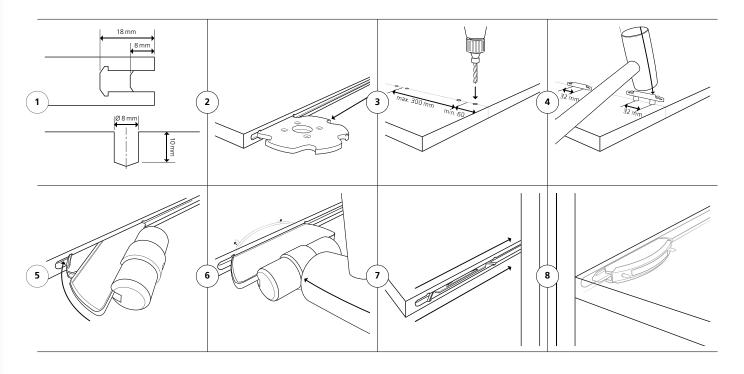




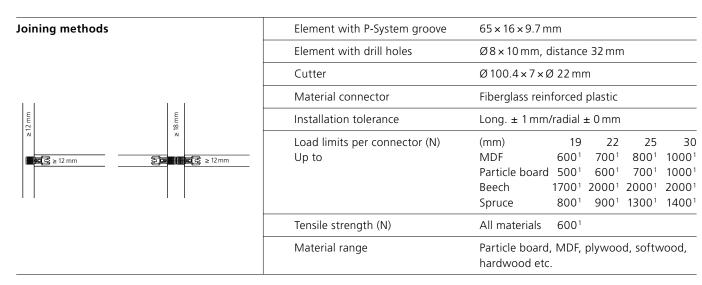




Function



Technical data





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





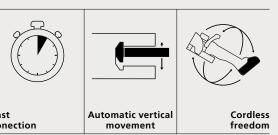
Zeta P2 cordless

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 (diamond)	Art. No.
In systainer, incl. 2 batteries and charger	101801SD
In systainer, without batteries, without charger	101800SD

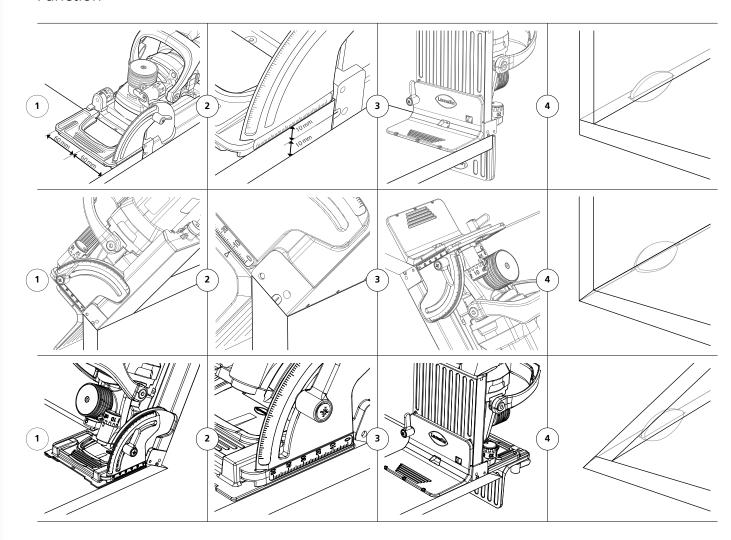


Zeta P2 cordless biscuit joiner, DP, 2 × battery pack 18 V, LiHD 4.0 Ah*, battery charger ASC 55*, P-System drill jig incl. drill, suction stub 36 mm, spacer 2 and 4 mm, dust bag, tool

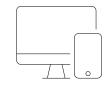
Kit contains

set, stop square

Function



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Experience Zeta P2 cordless live and receive comprehensive product information!













Technical data

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

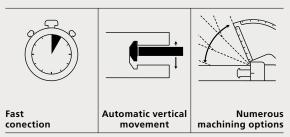
^{*} Only included in art. No. 101801SD

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 formlocking 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



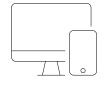
Zeta P2 Art. No. With P-System groove cutter HW (carbide) 1014035 in Systainer With P-System groove cutter DP (diamond) 101403SD in Systainer



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!





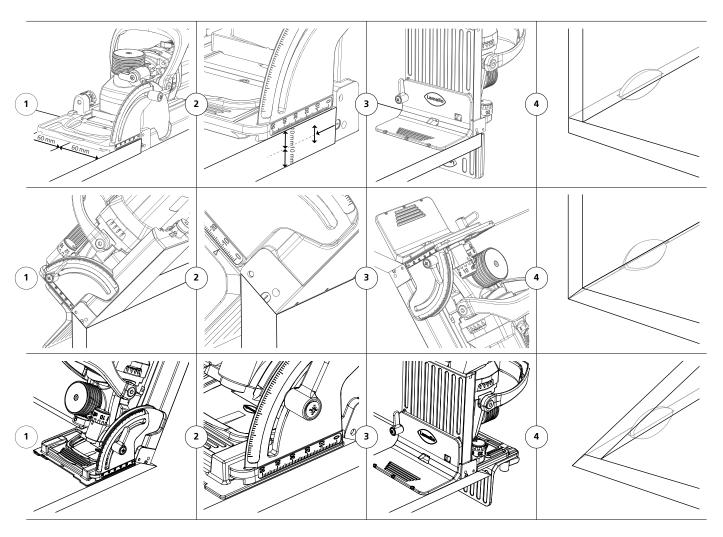












Technical data

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		





Į.

Accessories

Zeta P2 cordless and Zeta P2

Connected in seconds ...

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

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	







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



Groove cutter HW (carbide),

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



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

Batteries



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



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



Art. No.

Battery charger ASC 55 123100

Advantage

with Clamex P – de	etachable			Time for one connector pair	
(A				1. Cut	25
				2. Drill	15
				3. Insert	5
	unundu		The state of the s	4. Connect –	5
	- Annumum.	annunui -		finished!	
Cut	Drill	Insert	Connect – finished!	Ready in	50 s
with Tenso P – glu	ed			Time for one	
инишинини,	Thomas and the state of the sta			connector pair	
				1. Cut	25
	THE STATE OF THE S			2. Insert	5
	Whitemannaman			Insert Apply glue	5
				2. Insert3. Apply glue4. Connect –	5
		m _m		Insert Apply glue	5
Cut	Insert 2	Apply glue	Connect – finished!	2. Insert3. Apply glue4. Connect –	5

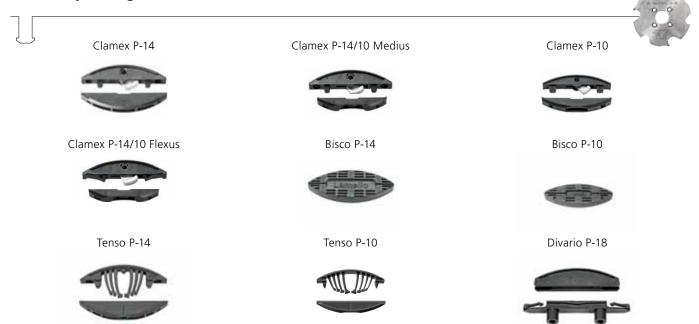


Versatile use with many different connecting elements.

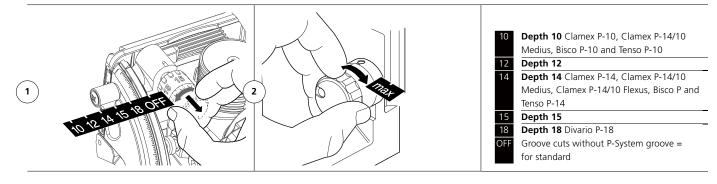
With the Zeta P2, you can quickly and easily connect parts with a range of angles and joining situations. Suitable for individual pieces of furniture as well as prototypes and line production.



With P-System groove



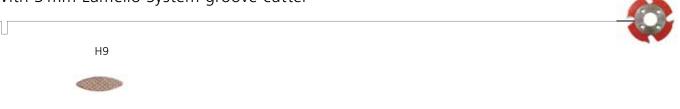
P-System depth adjustment



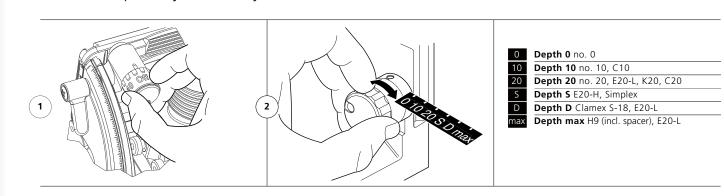
With 4 mm Lamello System groove cutter

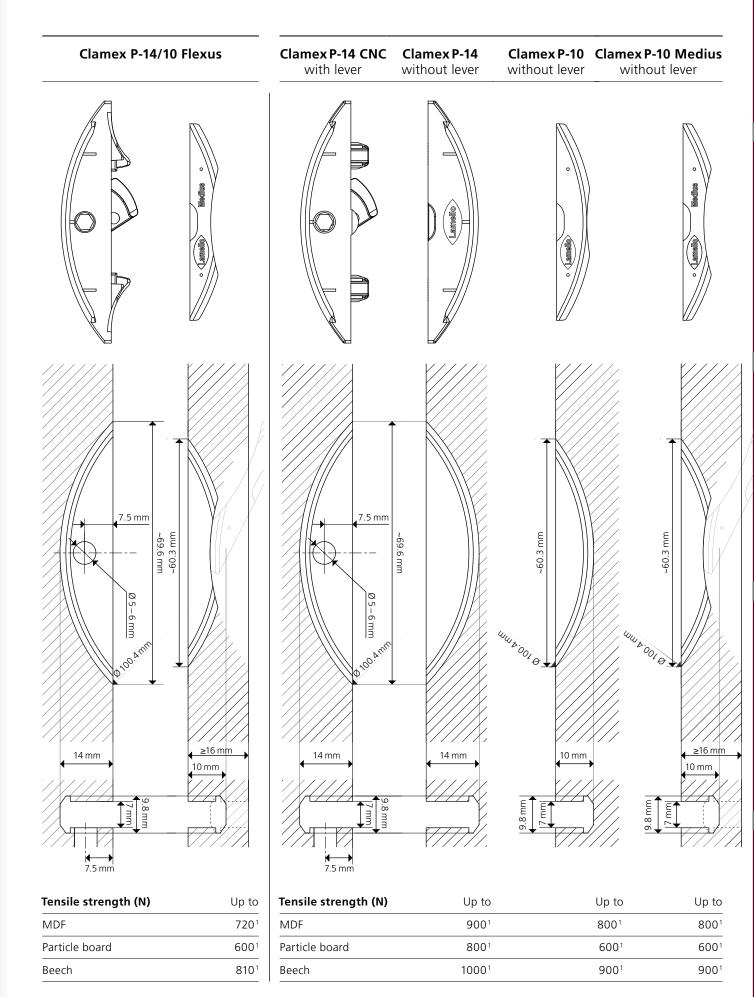


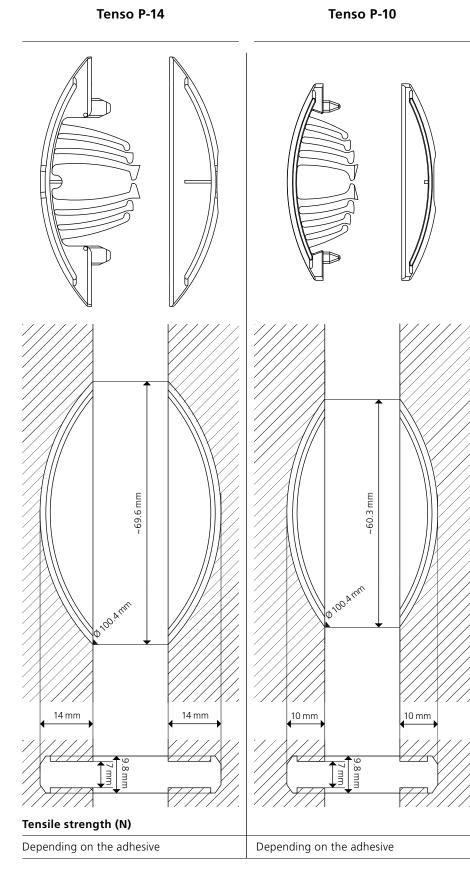
With 3 mm Lamello System groove cutter

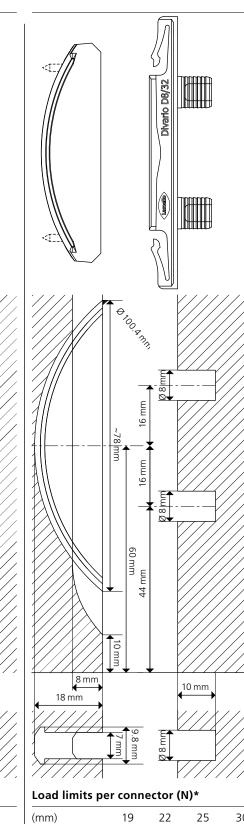


Lamello depth adjustment system









600¹

600¹

1700¹ 2000¹ 2000¹ 2000¹ 2000¹ 800¹ 900¹ 1300¹ 1400¹

Particle board 500¹

Tensile strength (N)

All materials

700¹ 800¹ 1000¹

700¹ 1000¹

Divario P-18

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	



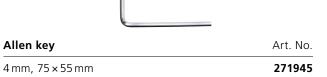
P-System connector assortment

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

4 mm, 120 × 50 mm





271945A





Art. No.

335280

335298



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 335285 RAL 9002 grey white RAL 7035 light grey 335286 335287 RAL 7040 window grey 335288 RAL 7031 blue grey

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



RAL 7022 umbra grey







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	



Art. No.
131506
131508
255243

Accessories / Spare Parts

P-System



Combination CNC and Zeta P2



Positioning pin CNC for Zeta P2*,

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



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

Tenso P



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



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	253027
2 mm, plastic for 16 mm panels	253023
4 mm, plastic for mitres	253026



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	257532

Batteries



 Battery pack 18 V, LiHD 4.0 Ah
 313013



Art. No.

Battery pack 18 V, LiHD 5.5 Ah

313015



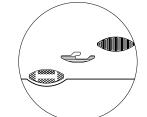
Art. No.

Battery charger ASC 55 123100

72 * For detailed information, see PAGE 166/171

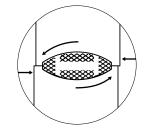


Features



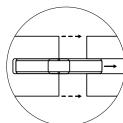
Versatile applications

One cutting principle for many different joining elements



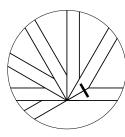
Lateral tolerance

The generous sliding tolerance allows for perfect flush alignment of workpieces



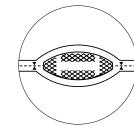
Perfect fit

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



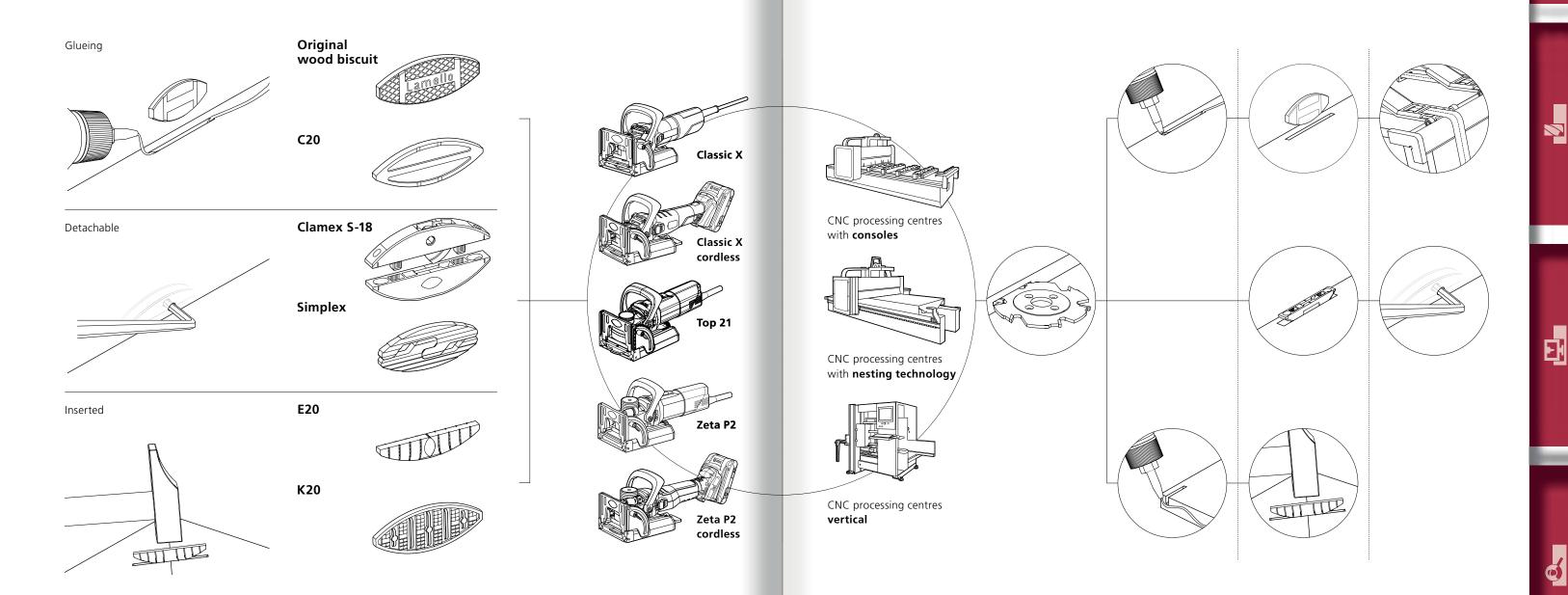
Symmetrical

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





Lamello System

Applications

Furniture manufacturing







Interior fitting



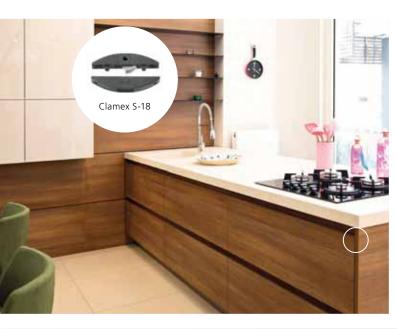


80

Lamello System

Applications

Kitchen manufacturing







Commercial joinery







1

Shop fitting

Original wood biscuit

The original wood biscuit that always fits





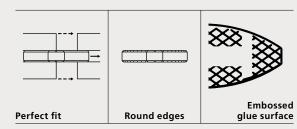








Features



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



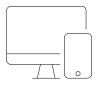
Original wood biscuit 0	Art. No.
1000 pieces	144000



144009

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

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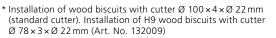




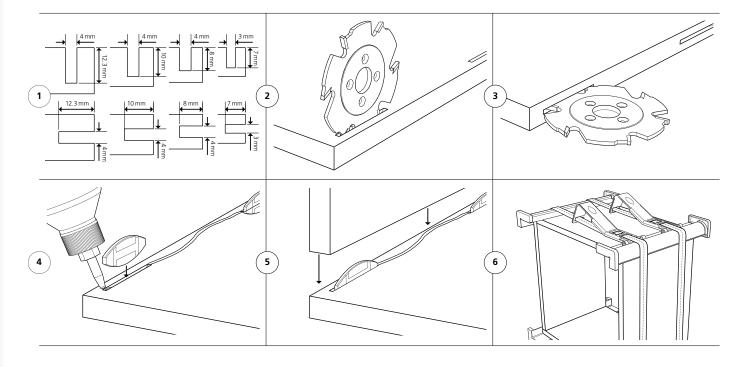






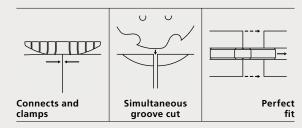


Function



Joining	g methods		Size 20	56×23×4mm
	151	151	Size 10	53 × 19 × 4 mm
	■ ≥ 6 m f	12 mm	Size 0	47 × 15 × 4 mm
20	≥ 13 mm	≥ 12 mm	Cutter	Ø 100×4ר 22 mm
	≅ 6 mm	E	Size H9	38 × 12 × 3 mm
10	<u>1</u> ≥ 11 mm	^\ ≥ 10 mm	Cutter	Ø 78×3ר 22 mm
	<u>e mm</u>	 E E	Material connector	Beech
0	^/	∑ ≥9 mm	Installation tolerance	Long. ± 1.0 mm/radial ± 1.0 mm
	[8]	IEI	Clamping force (N)	Depending on the adhesive
Н9	^ D ≥8 mm	\(\frac{\pi}{\pi}\) ≥8 mm	Material range	Particle board, MDF, plywood, softwood, hardwood etc.

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

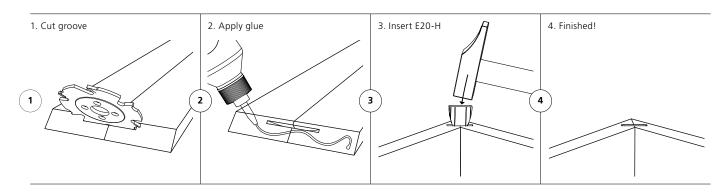


E20-L	Art. No.
80 pieces	145022
400 pieces	145025
1200 pieces	145027

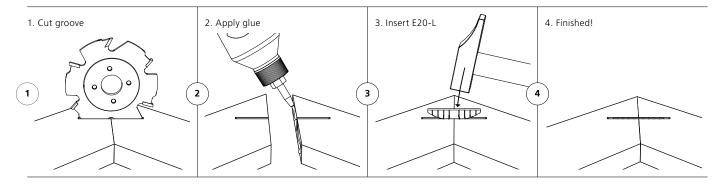
Assorted	Art. No.
40/40 pieces (E20-H/E20-L)	145020

Function

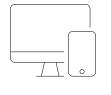
E20-H



E20-L



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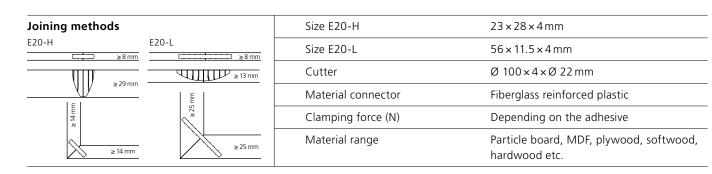








Technical data

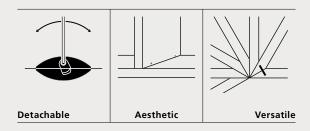


Clamex S-18

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	

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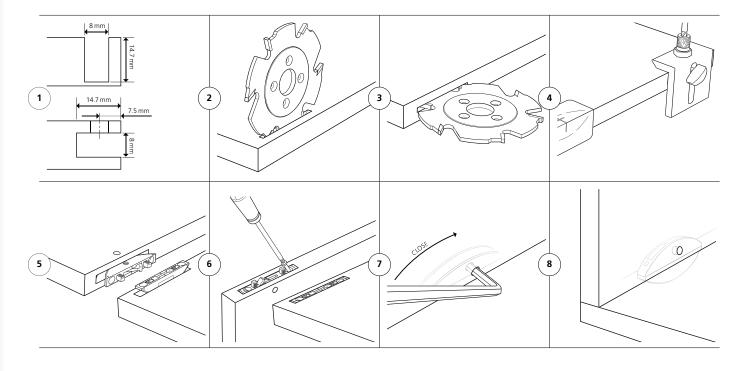






* Double cut with 4 mm cutter and spacer Single cut with 8 mm cutter Art. No. 132108

Function

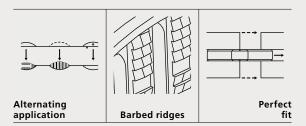


Joining methods	Size	66×29	×8mm		
E E E E E E E E E E E E E E E E E E E	Cutter	Ø 100×	Ø 100×8ר 22 mm		
	Material connector	Fibergla	Fiberglass reinforced plastic		
	Material of lever	Zinc die	Zinc die cast		
	Screw	Panhead	Panhead 3×16 mm		
	Installation tolerance	Long. ±	1.0 mm		
	Clamping force (N)	MDF	Particle board	Beech	
	Up to	600¹	6001	9001	
	Material range		Particle board, MDF, plywood, softwood, hardwood etc.		

The clamping element, which holds the workpiece in position



Features



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

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

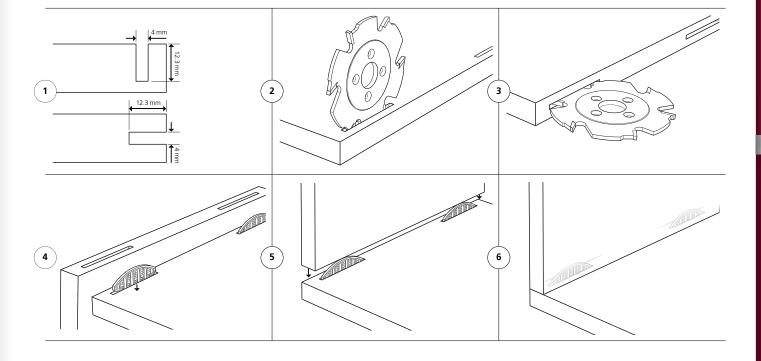
The combination with the original wood biscuits size 20 results in a joint with high strength.

Articles

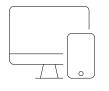


K20	Art. No.
80 pieces	145001
250 pieces	145000

Function



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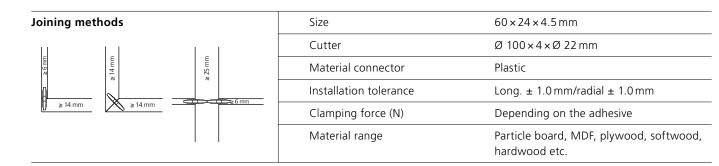










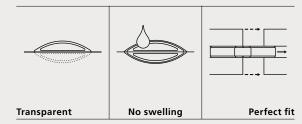


C20/C10

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.

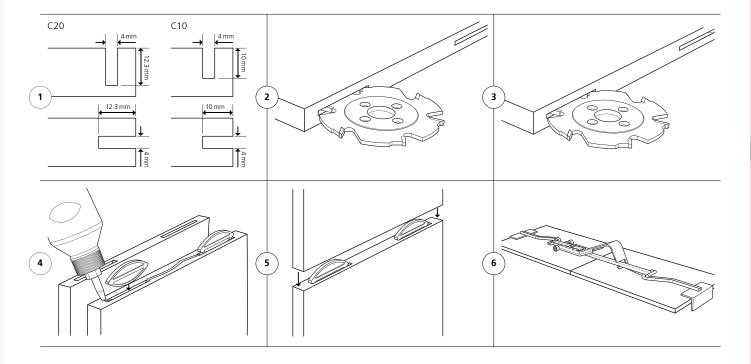
Articles



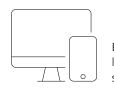


C10	Art. No.
300 pieces	145012

Function



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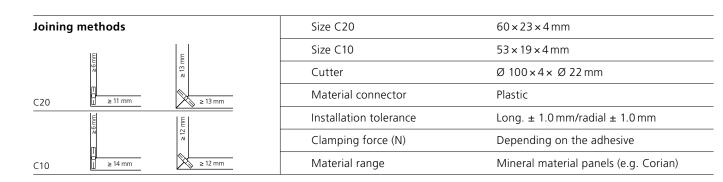








Technical data



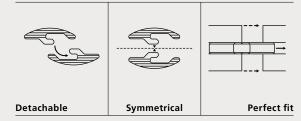
93

Simplex

Detachable slide-in connector



Features



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

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

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

Articles



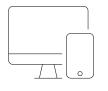
Simplex	Art. No.
50 pairs	166101
100 pairs	166100

Accessories



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

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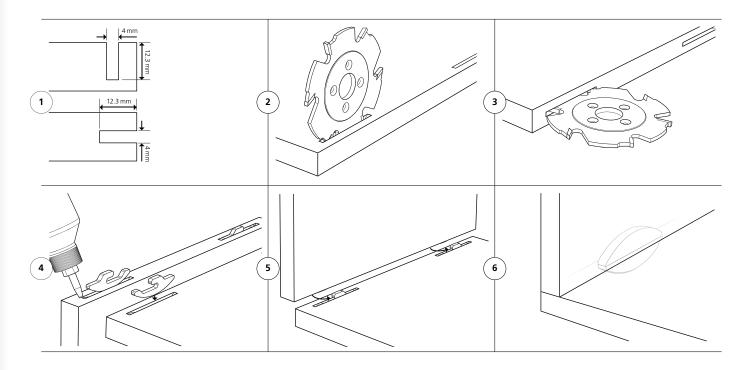
Experience the connector live and receive comprehensive product information!

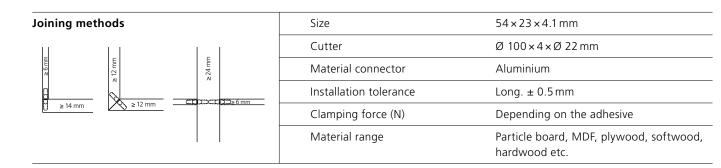






Function





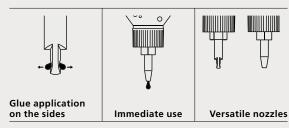


Minicol

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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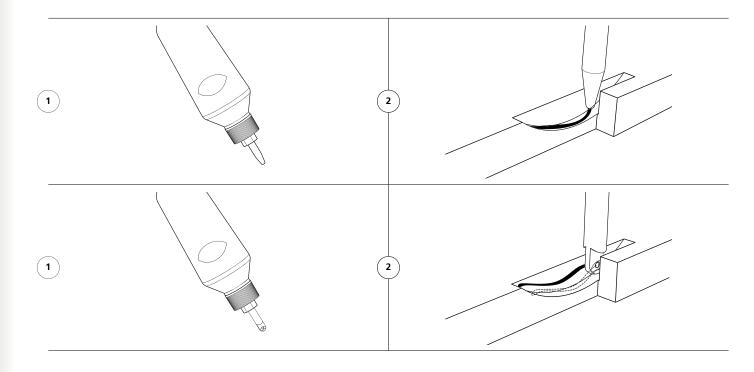








Function



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

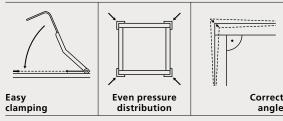
Clamping set

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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Experience the clamping set live and receive comprehensive product information!







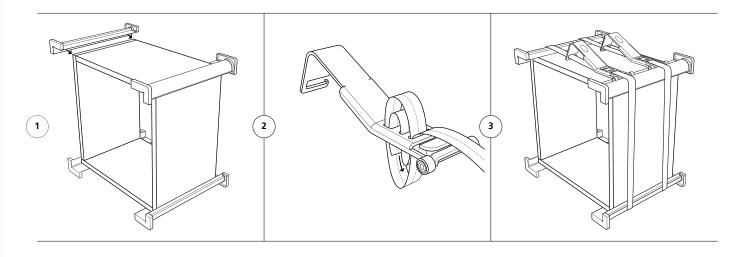








Function



7

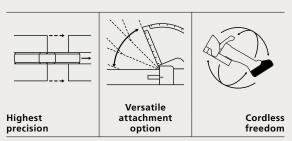
Min. workpiece length	150 mm	
Material	Aluminium protectors	Anodised aluminium
	Polyester belt for clamps	Polyester
	Clamps/Tension hooks	Metal powder-coated

Classic X cordless

The original biscuit joiner – precise and cordless



Features



Classic X cordless is the original, battery-powered biscuit joiner from the inventor of the Lamello system for cutting the 4 mm groove.

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

Precision in every component leads to perfect accuracy of the workpieces, and the cordless freedom means even more flexible application.

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

100

Articles



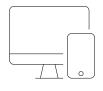
Classic X cordless biscuit joiner	Art. No.
In systainer, incl. 2 batteries and charger	101701DES
In systainer, without batteries, without charger	101700DES
In carton, without batteries, without charger	101700DEK



Kit contains

Classic X cordless biscuit joiner, $2 \times$ 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 information!









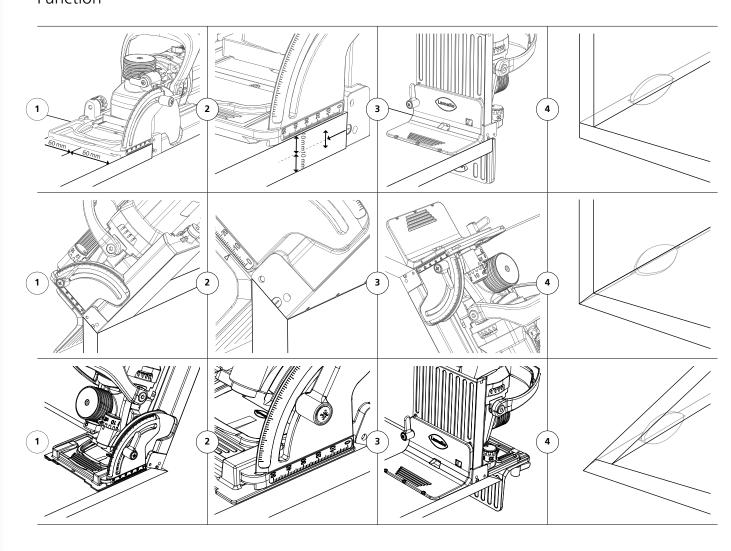






More information regarding the battery system on **PAGES 54–57**

Function



Technical data

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

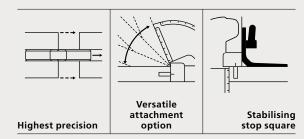
^{*} Only included in art. No. 1017015

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.



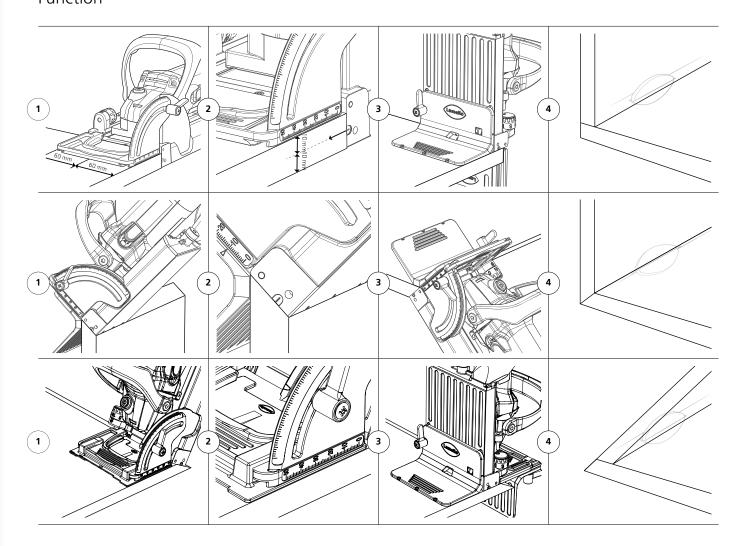


Classic X	Art. No.
In systainer	1016025
In carton	101602K

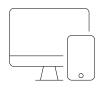


Classic X, groove cutter HW (carbide), suction stub 36 mm, stop square, spacer 4 mm, tool set

Function



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Experience Classic X live and receive comprehensive product information!















Technical data

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

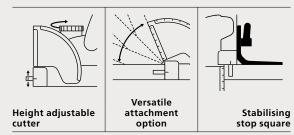
7

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

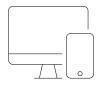


Top 21	Art. No.
In systainer	1015015
In systainer with carbide reversing blade cutter	101501SW



Top 21, groove cutter HW, suction stub 36 mm, dust bag, stop square, spacer $4 \, \text{mm}$, tool set

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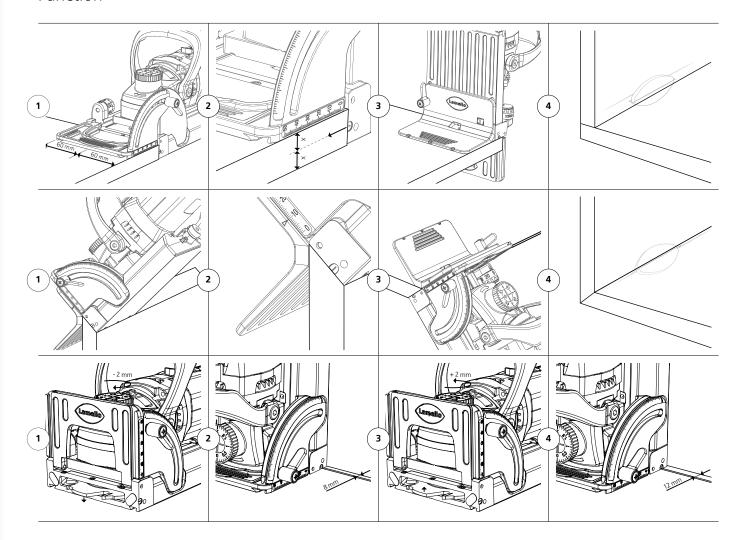
Experience Top 21 live and receive comprehensive product information!







Function



Technical data

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

Accessories

Classic X cordless, Classic X and Top 21

Accessories

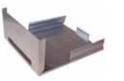


Stop square

for Zeta P2, Top 21, Classic X	Art. No.
For stabilising the biscuit joiner in the vertical	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,	132106
with spacer 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 100×8ר 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



Art. No.

Battery pack 18 V, LiHD 4.0 Ah

313013



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



Art. No.

Battery charger ASC 55 123100

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

Original Lamello biscuit joiners

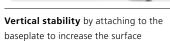
These properties make the difference

Features

Multifunctional stop square included in the kit

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

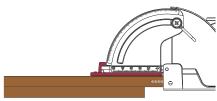
Swivelling front with fixed rotational point

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

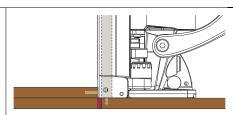
Allows alternating the application surface from the swivelling front 1. to the baseplate 2. Especially important when cutting thin dividing panel connections



- 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 baseplate

The dividing panel (moved by 4 mm) serves as application surface

High-precision machined application surfaces



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



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

Versatile use ...

... with various connecting elements.

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

With 4 mm Lamello System groove cutter



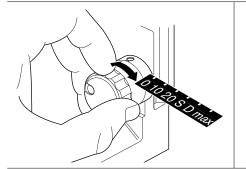
With 8 mm Lamello System groove cutter



With 3 mm Lamello System groove cutter



Lamello depth adjustment system

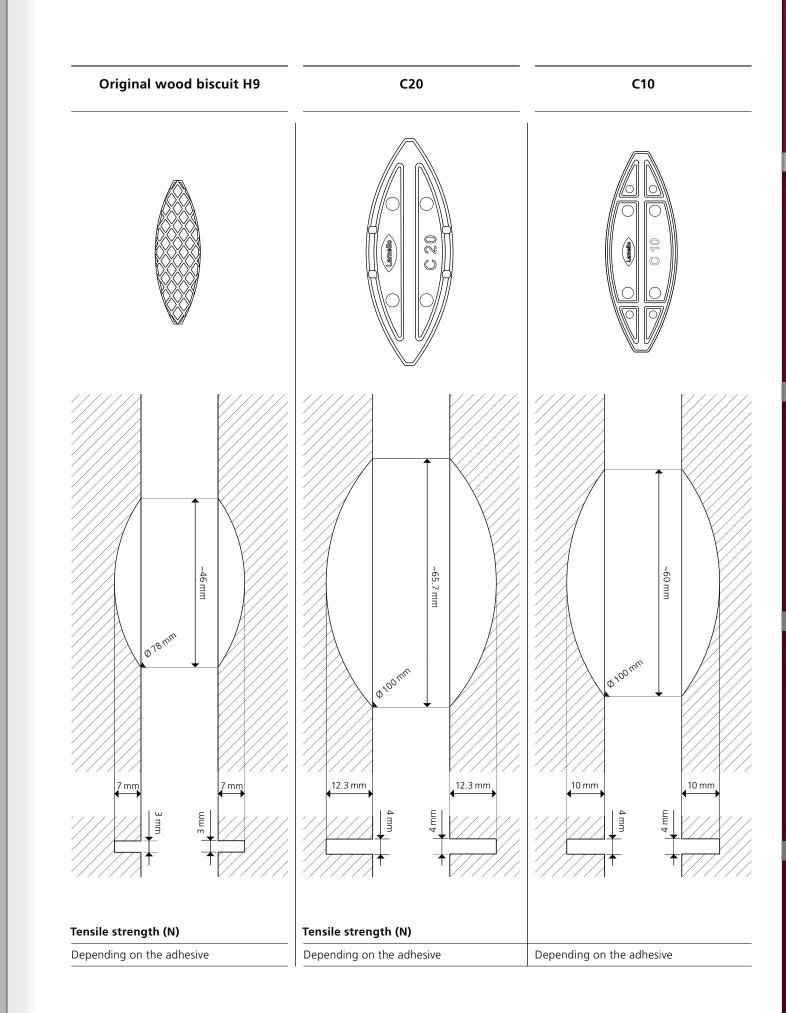


Depth 0 no. 0 **Depth 10** no. 10, C10 **Depth 20** no. 20, E20-L, K20, C20 Depth S E20-H, Simplex Depth D Clamex S-18, E20-L Depth max H9 (incl. spacer), E20-L

Technical information

Overview of connectors + grooves (scale 1:1)

Original wood biscuit 20	Original wood biscuit 10	Original wood biscuit 0
0100 mm 12.3 mm 12.3 mm	-60 mm 10 mm 10 mm 4 mm 4 mm	254 mm 4 mm 4 mm 4 mm
Tensile strength (N) Depending on the adhesive	Depending on the adhesive	Depending on the adhesive



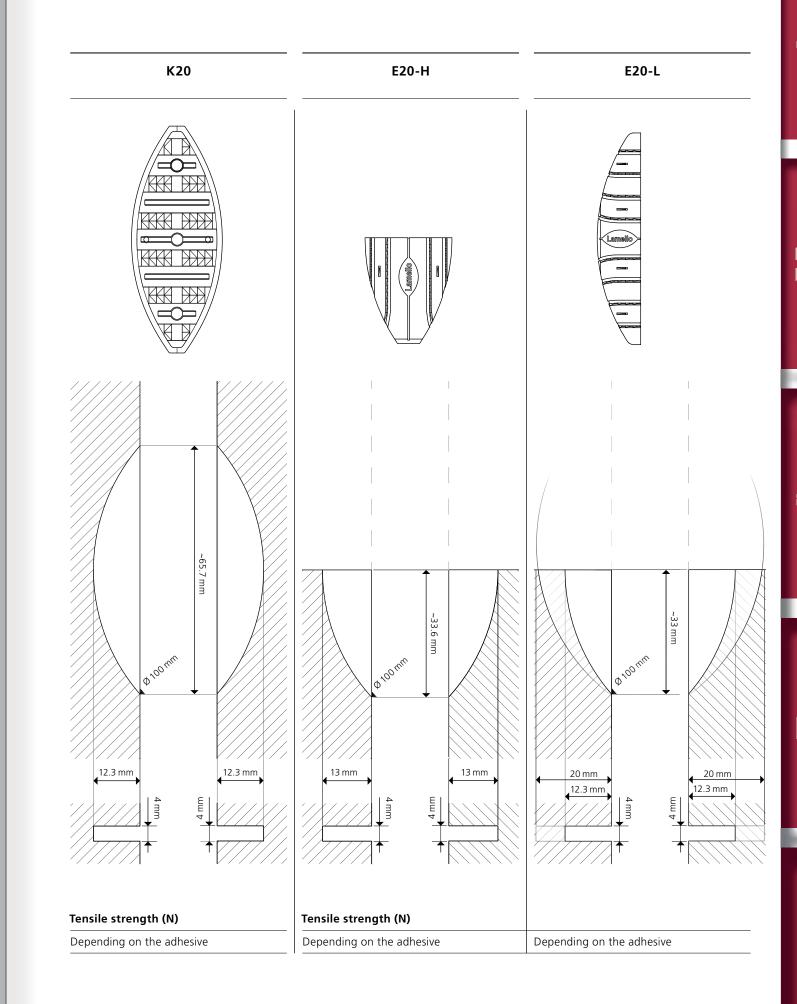
Particle board

Beech

112

Overview of connectors + grooves (scale 1:1)		
Clamex	S-18	Simplex
14.7 mm	70 mm	-67.3 mm 13 mm 13 mm 4 mm
Tensile strength (N) MDF	Up to 600 ¹	Depending on the adhesive
IVIUF	6001	Depending on the adhesive

600¹



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

Ø 78×3ר 22mmArt. No.Z4, 4 Screw holes, with hub for original wooden132009biscuit 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**



Art. No.

Battery pack 18 V, LiHD 5.5 Ah 313015

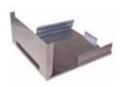


Art. No.
Battery charger ASC 55 123100

Accessories/ Spare Parts

Lamello System

Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine	251057
for 7eta 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	



Accessories for saw blades	Art. No.
Spacer, Ø 40 × 1 × Ø 22 mm	322510
with screw holes	
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	



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

Art. No.

175060





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





Tension hooks	Art. No.
2 pieces	175200



Art. No.
175401
175402
175403



Features Cabineo



Fast assembly



High clamping force

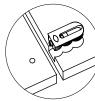


No edge drilling 8

1

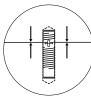


No dowel holes



One-piece and pre-installed

Features Invis Mx2



High clamping force



Invisible



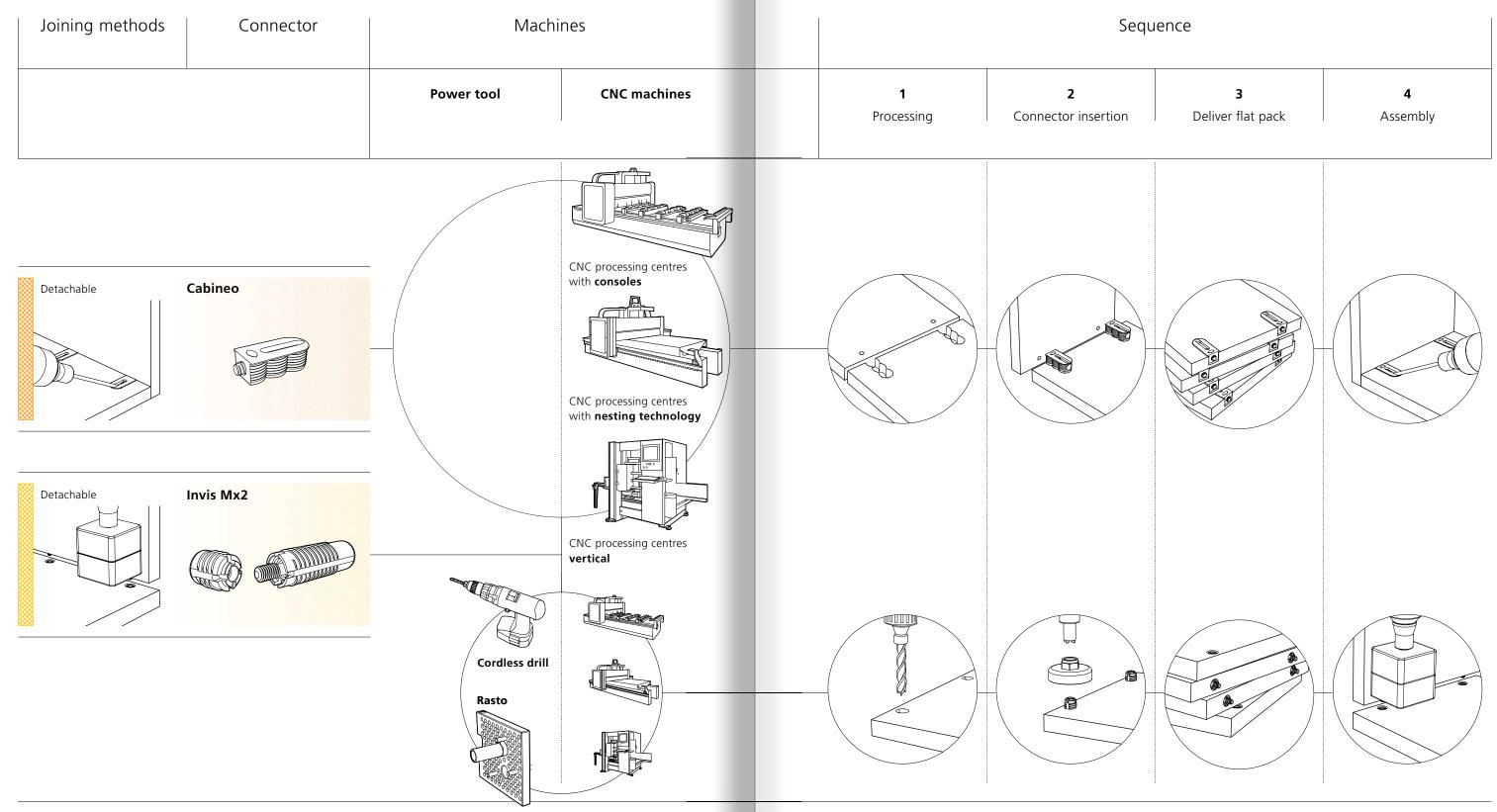
Detachable

Drilling System

Cabineo

– Invis Mx2

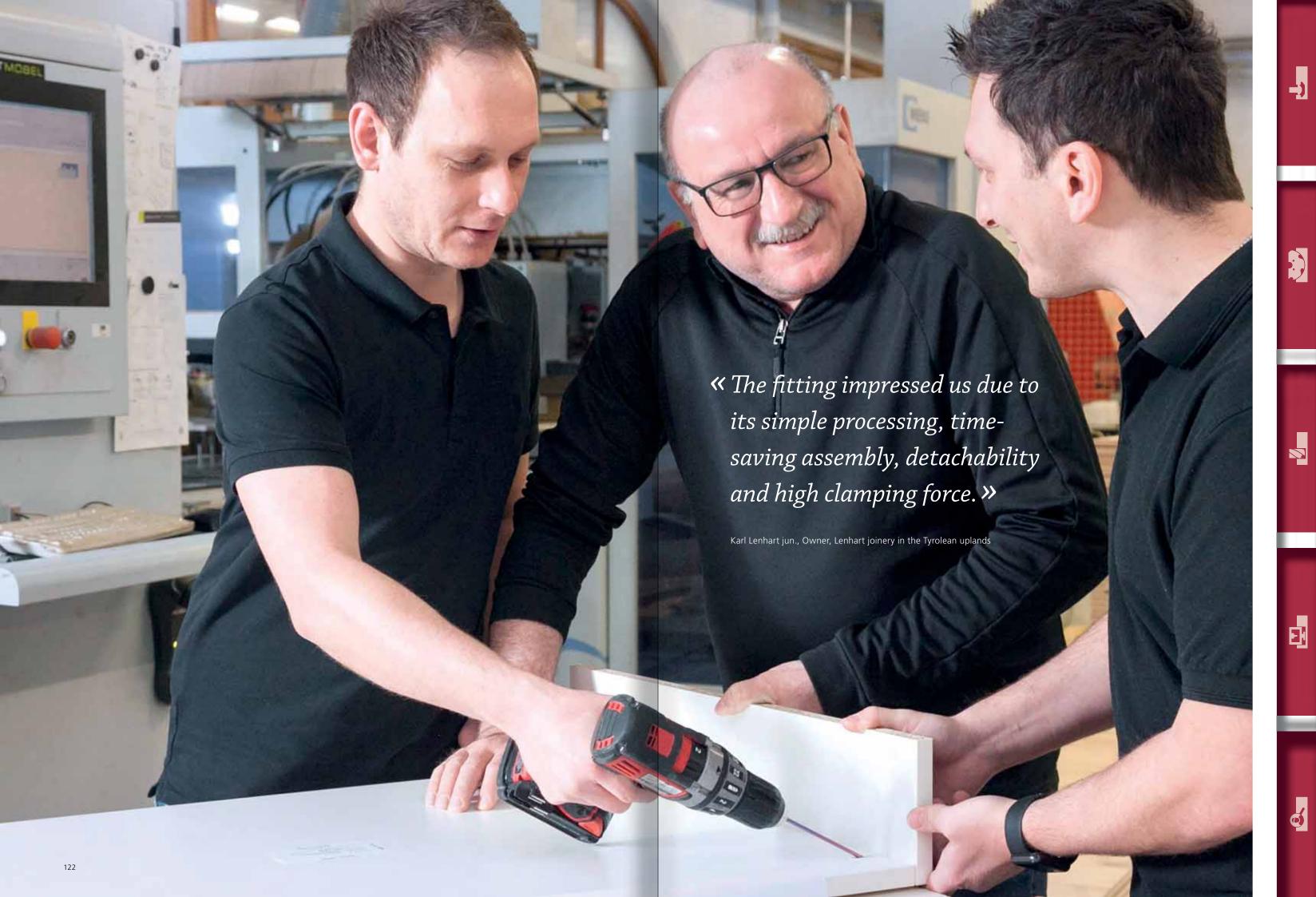
Overview



120

0

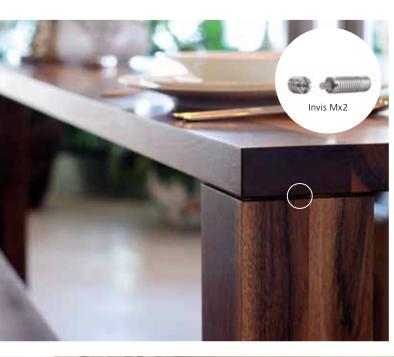
E



Drilling System

Applications

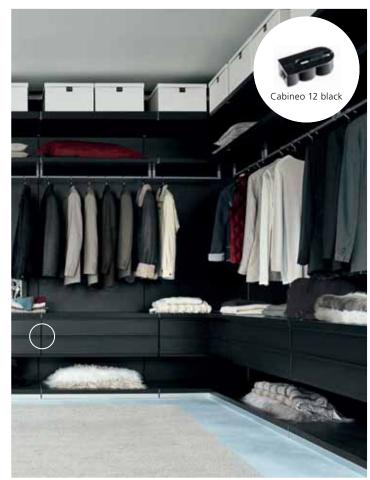
Furniture manufacturing







Interior fitting





2





Drilling System

Applications

Kitchen manufacturing





Commercial joinery





2

øj





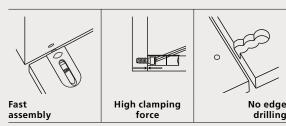
Shop fitting

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



Art. No.
186330
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	ieces)

www.lamello



Experience the connector live and receive comprehensive product information!





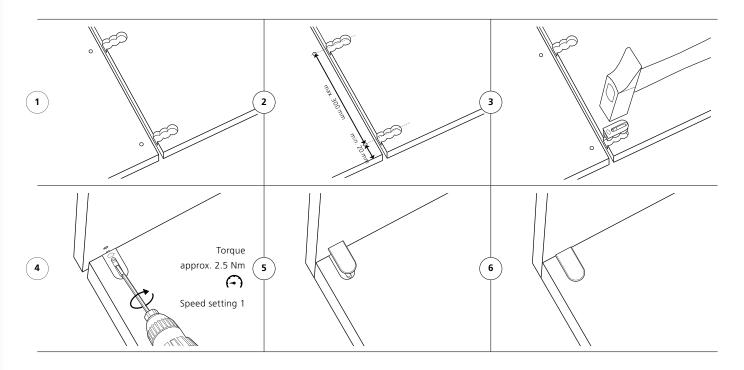








Function



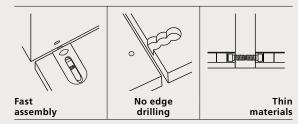
Joining methods	Size	33.8 × 16.5 ×	10.8 mm	
	Screw length	12 mm		
	Cutter	Ø 12 mm or s	maller	
	Drill	Ø 5 mm and Ø	Ø 15 mm	
	Material housing	Fiberglass reir	Fiberglass reinforced plastic	
E E E E E E E E E E E E E E E E E E E	Installation tolerace	Long. ± 0.1 m	m	
	Strength per connector without dowel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



Art. No.
186340
186341

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

www.lamello



Experience the connector live and receive comprehensive product information!





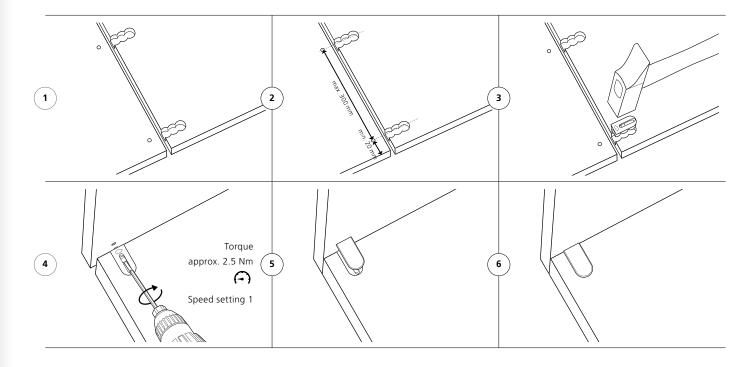








Function



Joining methods E C N E C N E D E D E D E D E D	Size	33.8×16.5×	10.8 mm	
	Screw length	8 mm		
	Cutter	Ø 12 mm or s	maller	
	Drill	Ø 5 mm and Ø	Ø 15 mm	
	Material housing	Fiberglass reinforced plastic		
	Installation tolerace	Long. ± 0.1 mm		
	Strength per connector without dowel (N)			
	Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force
		500¹	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



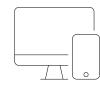
Cabineo 8 M6	Art. No.
500 pieces, metric thread M6	186315
2000 pieces, metric thread M6	186316



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

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

www.lamello



Experience the connector live and receive comprehensive product information!





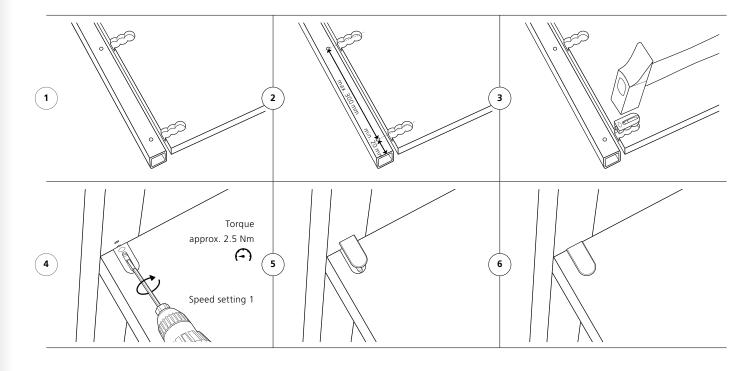








Function



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

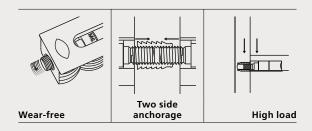
Cabineo insert M6

For repeated assembly and disassembly without loss of strength



Features

134



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

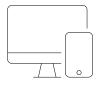


Cabineo insert M6 × 15.3	Art. No.
100 pieces, for dividing panels	186375
500 pieces, for dividing panels	186376



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

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Experience the connector live and receive comprehensive product information!





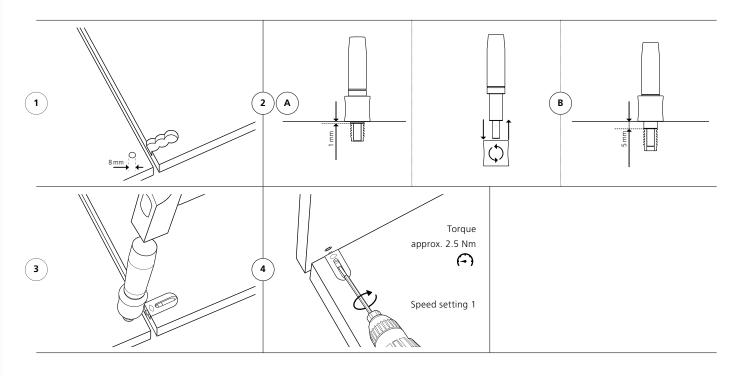




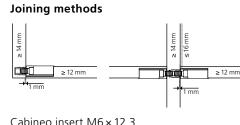




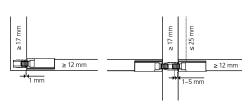
Function



Technical data



Cabineo insert M6 \times 12.3 for material thickness 14–16 mm



Cabineo insert M6 x 15.3
for material thickness 17-25 mm

Size	12.3/15.3 × 9.3 × 9.3 mm			
Thread	M6			
Drill hole	Ø8mm			
Material	Brass			
Installation tolerace	Long. ± 0.1 mm			
Strength per connector without dowel (N)				
Particle board 19 mm Up to	Tensile strength (N)	Shear strength	Clamping force	
Insert M6 × 12.3	750¹	1050¹	750¹	
Insert M6 × 15.3	900¹	1200¹	900¹	
	10 N ~ 1 kg			
Material range	Particle board, MDF, plywood, softwood, hardwood etc.			



Advantages of Cabineo

Simple, fast and strong

Cabineo compared with cam and dowel

1. Advantages in production

Time-saving in production



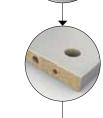
- Optimised process due to surface machining;
 no edge drilling necessary
- Only one tool change from 5 mm to 15 mm drill;
 no tool change for the dowel hole drill necessary
- No dowel holes means less drill holes per connector
- Shallow element of 10 mm allows for panels from
 12 mm thickness







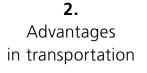
Fit Cabineo into top or bottom shelf



3 surface processing steps



2 edge drill holes1 tool change



Time-saving in transportation

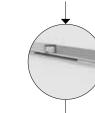


- Efficient pre-installation of the one-piece connector in the factory
- Flat pack delivery with pre-installed connectors
- No extra bags or loose hardware required with furniture shipment
- Detachable for transport or if the fixed shelves need adjusting





Flat pack the workpieces



Prepare fitting bag



3. Advantages in assembly

Time-saving in the assembly

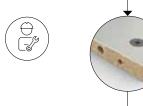


- One-piece connector without dowels; no pre-assembly of screws or dowels in the side panels necessary
- Easy positioning of the Cabineo in the corresponding hole due to the protruding screw
- Fast assembly with a cordless drill
- Installation of fixed shelves or vertical dividers in an already assembled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





Assemble using a cordless drill



Insert cam into shelf



Install the screw in the side Insert dowel into the side



Assemble using a screwdriver

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.



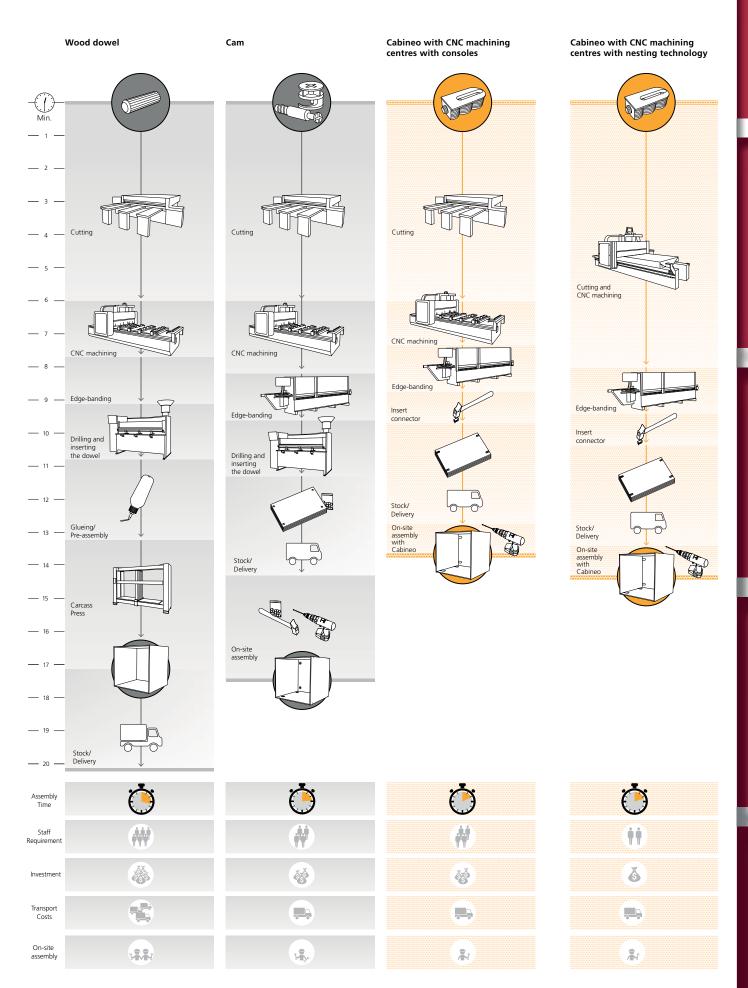
required positions.



Tip:

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

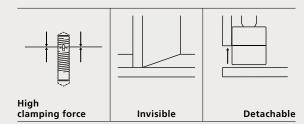




Invis Mx2

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



With 30 mm Invis Mx2 stud, 20 pairs 6012301



Invis Mx2 Starter set

Art. No. **6100300**

Invis Mx2 MiniMag, Invis Mx2 connector sets, 20 pairs, with 14 mm Invis Mx2 stud, Rasto drill jig with 12 mm drill bit, depth adjuster, bushing, screw bit, flexible shaft, insertion jig

www.lamello



Experience the connector live and receive comprehensive product information!







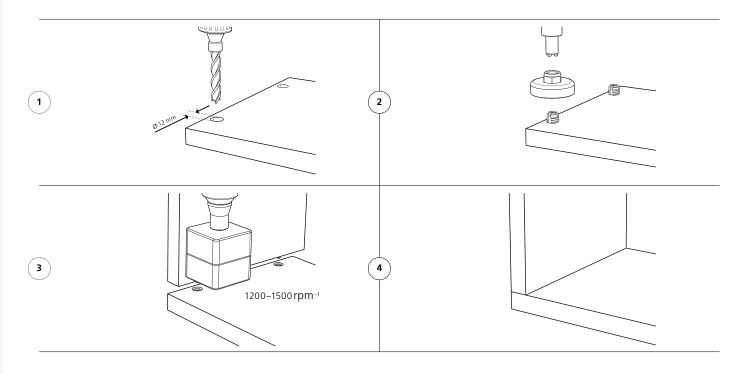






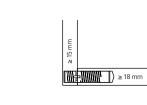
Function

1200-1500 min:

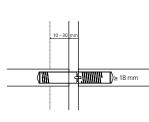


Technical data

Joining methods



≥ 18 mm



Size connector	Ø 12 × 35 mm				
Size stud	Ø 12 mm × 30/14 m	Ø 12 mm × 30/14 mm			
Size centre-wall stud	Ø 12 mm × 30 mm				
Drill	Ø 12 mm				
Speed MiniMag	Material housing Zinc				
Material housing					
Installation tolerace					
Clamping force per connector	250 kg ¹				
Tensile strength (N) Up to	Connector sets with stud	14 mm	30 mm		
	MDF Particle board Beech Spruce	1500 N ¹ 600 N ¹ 2000 N ¹ 1000 N ¹	4000 N ¹ 1600 N ¹ 4000 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



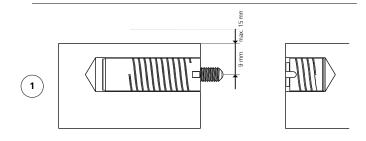
 Invis Mx2 centre wall stud 10-30 mm
 Art. No.

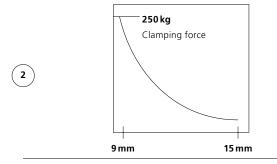
 10 pieces
 6012208



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

Function





Small distance from the edge for high clamping force

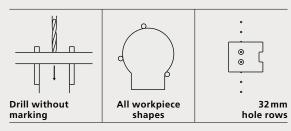


Rasto drill jig

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

- 4 drill bushings Ø 5, 8, 10, 12 mm,
- 3 positioning bolts, 1 fastening screw

Rasto Mono set

Art. No. 126001

In a systainer: 1 transparent perforated plate,

- 4 drill bushings Ø 5, 8, 10, 12 mm, 3 wood drill bits
- Ø 5, 8, 12 mm, 3 positioning bolts, 1 fastening screw,
- 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

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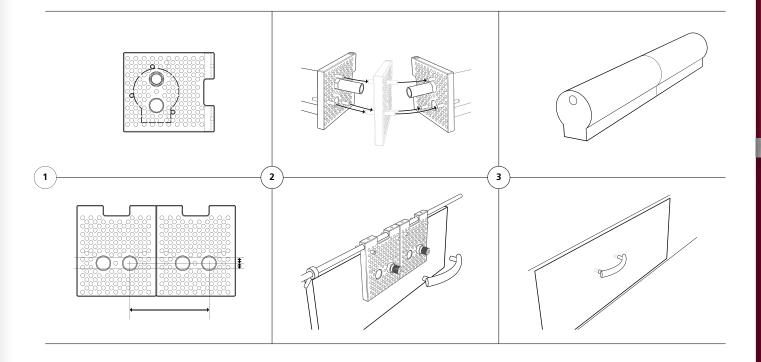








Function

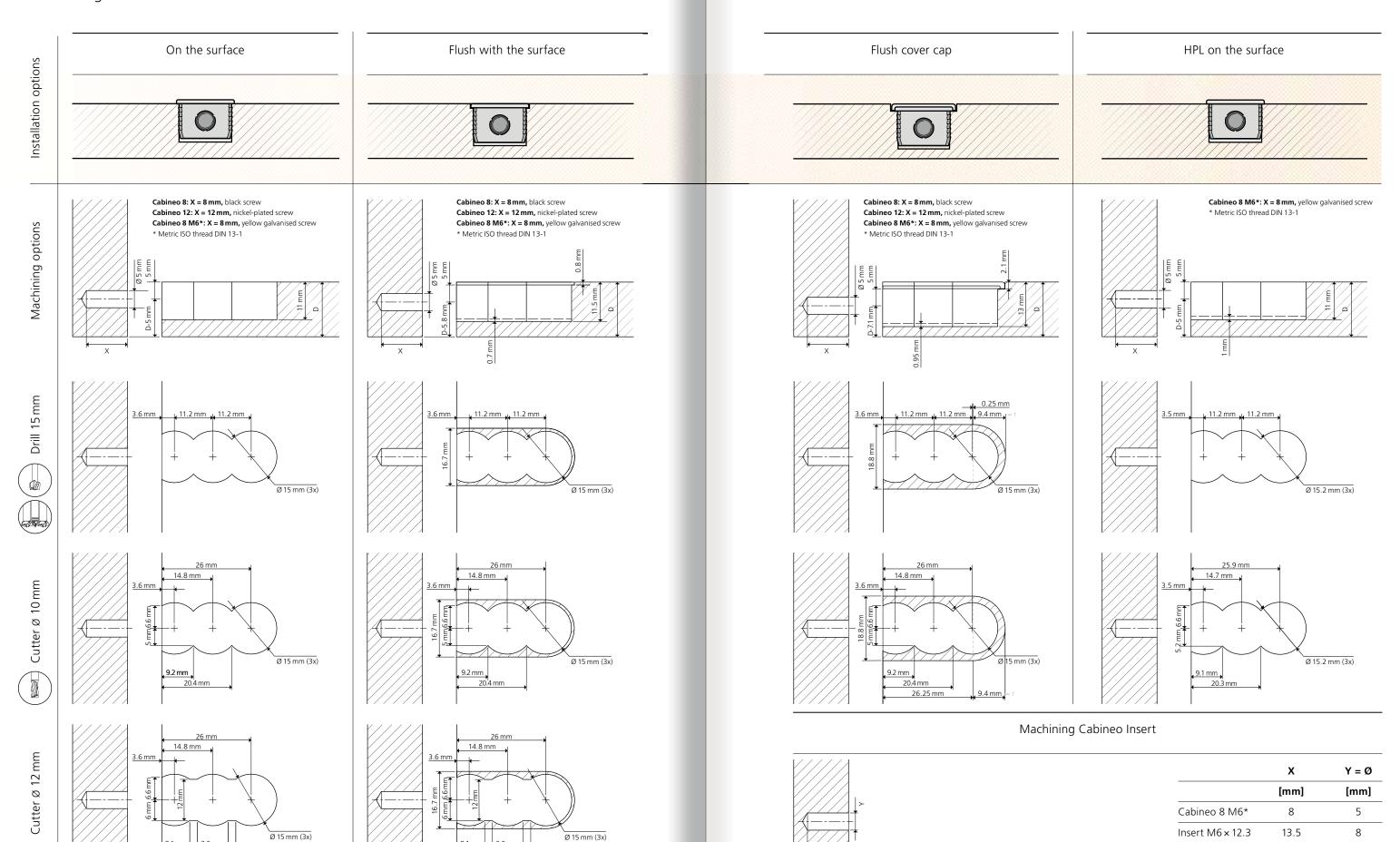


Technical data

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

Technical information

Machining Cabineo



1

16.5

Insert M6 x 15.3

8

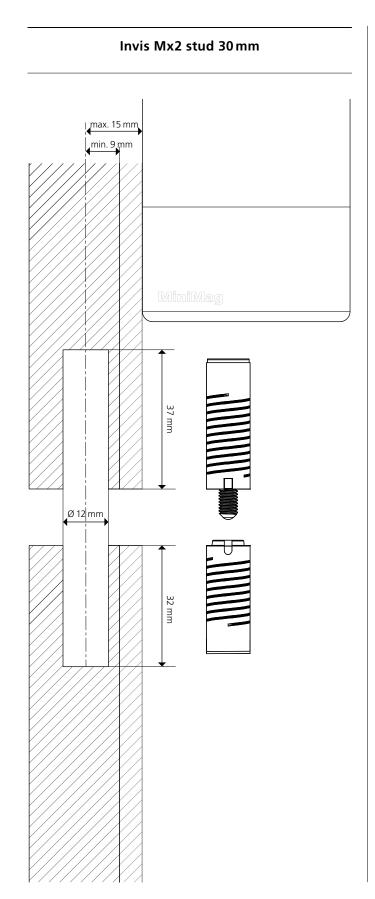
147

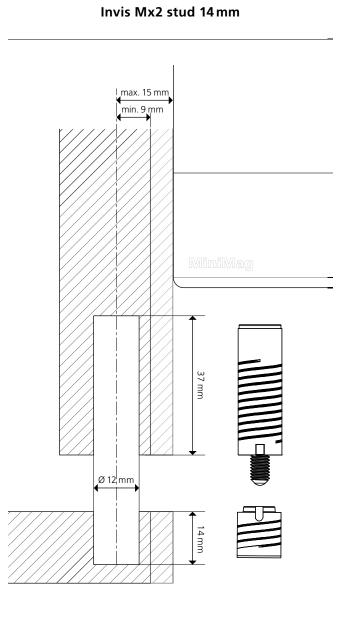
* Metric ISO thread DIN 13-1

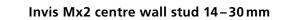
8.1 mm 2.2 mm

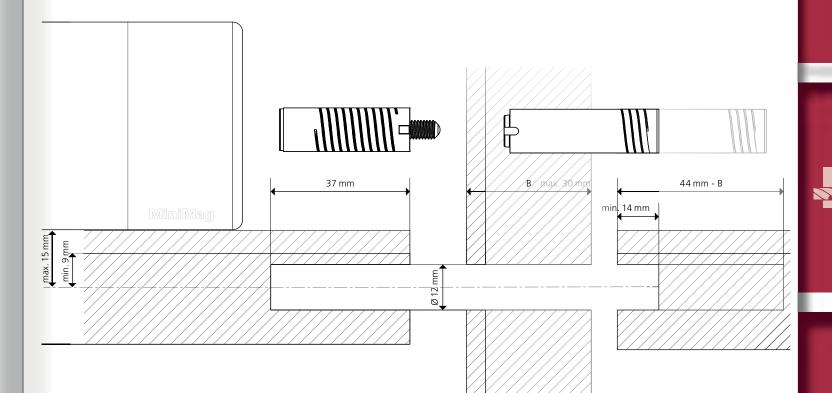
Technical information

Machining Invis Mx2









Drilling System



Art. No.

Cabineo



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

Cabineo drill Ø 15 mm with short centering point	136312
	_
	Art. No.
Cabineo cutter Ø 10 mm	136310
	Art. No.
Cabineo cutter Ø 12 mm	136311
·	
	Art. No.
Cabineo drills for aggregate* Ø 15 mm	136314
RH carbide tipped (right hand rotation)	
-	Art. No.
Cabineo drills for aggregate* Ø 15 mm	136315
LH carbide tipped (left hand rotation)	

Cabineo dril/cutter



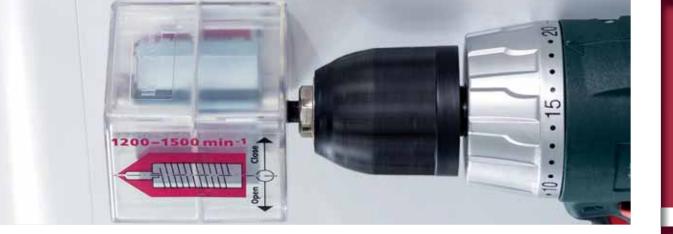
Cabineo cover caps	Art. No.		Art. No.
	100 pieces	2	000 pieces
RAL 9003 signal white	1863505	\bigcirc	1863515
RAL 9010 pure white	186350W		186351W
RAL 9018 papyrus white	186350P		186351P
RAL 1015 light ivory	186350H		186351H
RAL 1011 brown beige	186350B		186351B
RAL 8007 fawn brown	186350R		186351R
RAL 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



Cabineo insert insertion tool		Art. No	
	For insert M6	276310	

^{*} Benz: 2x136314 and 1x136315 (MULTI V3 CABINEO)
Atemag: 1x136314 and 2x136315 (VERTINEO Cabineo Drilling)

Drilling System



Invis Mx2



Invis Mx2 screw bit	Art. No.
1 piece	6112205



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



Invis Mx2 flexible shaft	Art. No.
1 piece	6100204

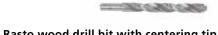


Invis Mx2 insertion jig	Art. No
For studs 14 mm	611233



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

Rasto



Rasto wood drill bit with centering tip	Art. No.
Ø 5 mm	6100160
Ø 6 mm	6106161
Ø8mm	6108060
Ø 10 mm	6110162
Ø 12 mm	6112060



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



Invis Mx2 spacer	Art. No.
For Rasto	6112331



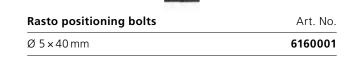
Rasto perforated plate	Art. No.
1 piece	6160000



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



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



Rasto connection rod 500 mm	Art. No.
wo-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-processor

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



CNC machine

- Machine with 3/4/5-axis

The number of axes and equipment options influence the processing possibilities



CNC software

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

The macro/component determines/affects the processing possibilities





Suitable aggregate

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

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





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

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

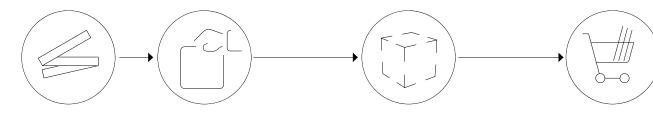
Networked production

Overview of the production process

Enabled by Lamello planning and machining partners



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



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, both digital data exchange and automated. For

With an online procurement can be example, this allows the current prices to be gueried, availability checked and picking implemented.

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



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

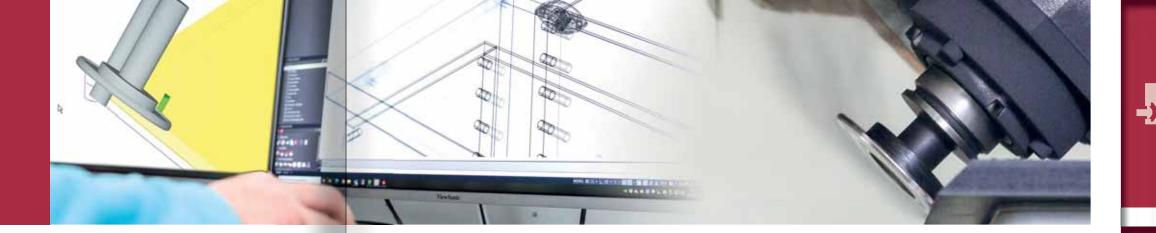


After CNC machining, The items of furniture or if the workpieces are now ready to be are ready for further transported to the processing, the edges customer. Ideally, the are glued or the furniture should be surface is painted sent as a flat pack, and the connectors which is no problem are then installed. at all with the Lamello connectors.



Service overview

Lamello's planning and machining partners



	Planning	partners	CAD	/ERP	/Configu	rator/	CAM	software	9
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												J					
Company		0000	7070	I d A MY FIRST OCCUPANT A d d		Ji+c mu of ol mu o d	DOLLINGER		CAD+T		cadwork	direkt CNC-system	NOGAXAH		iFurn	imos	
		20	20			BOI	RM ratik	(<u>\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\</u>		work	NC-HOPS'	HE	XAGON	iFurn	imos	
Product name		2020 CAD	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	
Offer/ Material	ERP software						•		•							J.	
management / Ordering	Interface with procurement			•	•	•	•	•	•					•		•*	
	Interface with CAD			•	•	•	•	•	•	•		•	•				
Visualisation / Planning / Construction /	Interface with ERP Data cloud for CAD data			•	•	•	•	•	•		•	•		•		•	
Parts list	CAD 2D software	•					•		•		•			•	•		
	CAD 3D software	•		•	•	•		•			•	•		•			
	Configurator	•		•	•	•			•		•	•		•		*	
CNC programming	Interface with CNC		•	•	•	•		•	•	•	•	•	•	•		•	
data	CAD/CAM software		•	•	•					•		•	•			•	
	WOP programming software		•	•	•					•		•	•				
	ISO programming software		•	•	•					•		•	•				

	KCD Software	Kosmosoft	LIGNOCAM	000	USD Datensysteme	Q V ()	raiette (AD		רשור שור	PHYTA	Qulity Industriale		Swiss-all-CAD			pilosdol	TrunCAD	extragroupe	rwdm.ch	Tibek		Eficad	
(KCD Software	SmartCABINET	Lignocam	OS Datesty	atzene GridH	Palet	teCAD		were k Service touch Stellar	* DOY YOU	woodab STUDIO	Sv	viss al CAI		Тор	Solid	TrunCAD	(VECTORWORKS	rwdm,ch	SmartWOP		wood	
	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



		Mad	hinir	ng pa	rtner	's CN	IC ma	chine	es/Ag	ggre	gate	s/CN	IC to	ols																		
Company		AES		Biesse			Felder	GANNOMAT		HOI Z-HFR			Holzfraese		Homag		KOMO	IMA	INFOTEC	Masterwood		SCM, Morbidelli	ori/		Atemag	Benz Tools	GROTHEFELD	HSD	Leitz	Leuco	Oertli	Utensiltecnica
				⊠ BIESS	SE	(FORMAT	GANNO		HOIZH	HER	Ho	Izfraese	(•	E HOMAC		КОМС		INFOTECTION OF THE PROPERTY OF	masterw	s (1000)	cm@group	■Vi	tap	TEMAS .	BENZ	GROTEFEL	HSD	leitz	LEUCO	OERTLI	● UTEN
Product name		CNC machines	Aeswor CNC machines	bSolid	NC Hops bCabinet	CNC machines	F4Integrate Wood Flash	CNC machines	GANNOMAI Editor CNC machines	NC Hops	CabinetControl NEO	3D-Master	SmartWOP	Macchine CNC	WoodWOP cabinetCreator	ı	CNC machines	CNC machines	CNC machines		Masterwork/Master 3D CNC machines	Maestro CNC	Aylog Plus CNC machines	Software TPA	Various	Various	Various	Various	Various	Various	Various	Various
Offer/	ERP software																															
Material management/	Interface with procurement																															
Ordering	Interface with CAD				•				•	•		•	•					•			•	•		•								
Visualisation/	Interface with ERP				•				•				•		•																	
Planning / Construction /	Data cloud for CAD data																															
Parts list	CAD 2D software			•	•		• •																	•								
	CAD 3D software			•	•		• •					•			• •						•			•								
	Configurator				•				1		•	•	•		•						•											
CNC programming	Interface with CNC		4	•	• •		• •		•	•	•	•	•		• •			•	• 2	•	•	•		•								
data	CAD/CAM software		•	•	• •		• •			•	•	•	•		•			•			•	•		•								
	WOP programming software		•	•	• •		• •		•	•		•	•		• •			•				•	•									
	ISO programming software				•		•					•					• 2						•									
CNC machining	CNC with consoles	•	•			•			•					•			•	•	• 3	•	•											
	CNC vertical/horizontal (compact)	•	•			•		•	•					•			•		•	•	•		•									
	CNC nesting	•	•			•			•			•		•			•	•	•	•	•											
	Aggregates		•			•			•					•							•		•		•	•	•	•				
	CNC tools																												•	•	•	•

P-System with CNC

Joining methods and requirements for CNC machines/machining options

							1		41.77				
CNC machines			With consol vertical or h					1000	With nesting	g technology	,		
Number of axes			3			4	5		3		5		
				Machining option	Machining option			Machining option		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)*	IJ	A	E	F	C	A		E	F	D	A	F
	Access drill hole 45°					C							
	Access drill hole 45°		B			C							
	Access drill hole 22 – 108°					C							
	Access drill hole 22 – 108°					C							



Detailed information on machining	Detailed information on machining	Possible setup of aggregates and tools Comments	S
		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 of PAGE 175	on
		Saw blade clamp Ø 40/DTK 52 mm and cutter 132143 or with collet chuck and cutter arbor Saw blade clamp Ø 40/DTK 52 mm and cutter 132143 or with collet chuck and cutter arbor PAGE 174/175	Ø and
A Para Salar managan salar man		Angle aggregate One to four spindle angle aggregates Floating trimming unit for P-System Corner notching aggregate A unit overview can be found on the Lamello version to the spindle angle aggregate to the system to the system to the system and the system to the system to the system and the system to the system and the	websi-
B		Manually adjustable swivelling aggregates Information: Several tool changes required for angle cuts, drilling and P-System grooves Note: The cutting depth the centre of the surface be restricted depending the model. Tip: For a manual drill with the manual drill	ce may ng on mitre,
C TOO 4 mm	o o o o o o o o o o o o o o o o o o o	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	oove
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	ool
E			

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

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

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

Possible combination of CNC machines with Zeta P2

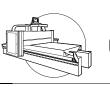
More regarding the machining on PAGE 171











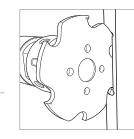


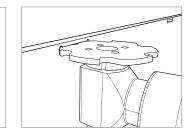


P-System equipment options

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)



EVOLUTION 7405 Connect

0 · 2 · 3

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

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





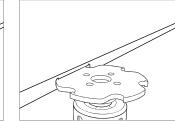
Creator 950 1× P-System CNC groove cutter in HSK63F 1x P-System CNC shaft tool cutter* in HSK63F 1× drill Ø 6 mm

FORM AT

*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

 $\mathbf{0} \cdot \mathbf{2} \cdot \mathbf{8}$



HE HOMAG

DRILLTEQ V-200 woodWOP «Lamello P-System»

component 1x P-System tool set

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



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°





masterwood

Project TF 100/TF 100 2.0

1× aggregate

2× P-System CNC

groove cutters

1× P-System CNC cutter arbor

1× drill Ø 6 mm 0 . 2 . 8















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

0 . 2 . 3



Nextec 7707 1× tool set

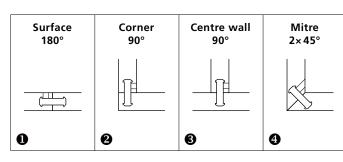
0 . 2 . 8



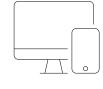
1× aggregate 2× P-System CNC groove cutters 1× P-System CNC cutter arbor 1× drill Ø 6 mm

0 . 2 . 3





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Experience CNC live and receive comprehensive product information!













Ideas for standardising

The machining on a CNC machine

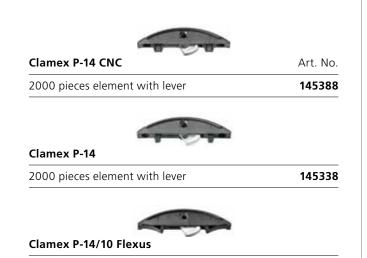
Possible combination of CNC machines with Zeta P2

Clamex P-14 CNC with lever, Clamex P-14 with lever and Clamex P-14/10 Flexus with lever are compatible with all Clamex P elements without lever.

This allows for a standardised construction method.

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

2000 pieces element with lever



Clamex P-10 Art. No.

2000 pieces element without lever 145358

Depth 10 mm for all P-System grooves

in the surface

Clamex P-10 Medius

145318

2000 pieces element without lever

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,

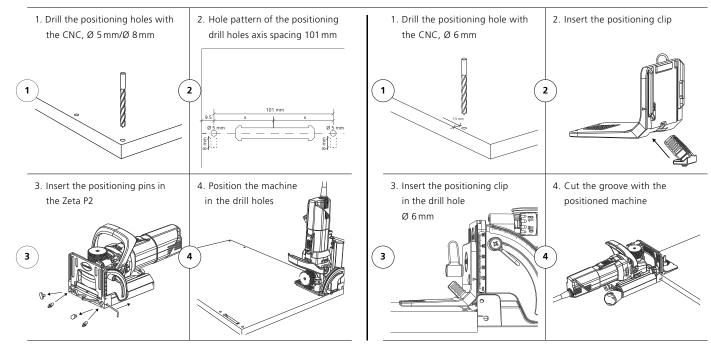
2 pieces	Art. No.
Ø 5 mm	251048
Ø8mm	251066

Positioning clip CNC

access hole (6 mm)

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

Machining steps



170

Cabineo with CNC

Specific equipment options for CNC machines for Cabineo





CNC machine

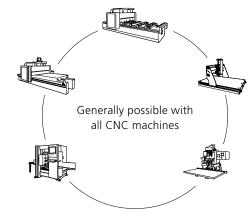
Homag CENTATEQ N-600

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

Gannomat Basica Variabel 0194

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





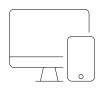








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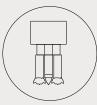












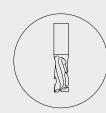
CNC tools - aggregate

Benz MULTI V3 CABINEO

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



Atemag 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, 131556 L = 100/35 mm, shaft = \emptyset 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

One tool with 2 functions



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



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



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



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



Art. No.

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



Art. No. Shaft \emptyset 20 × 50 mm, L = 85 mm, 132155 with clamping surface (2°- angle)

e.g. for aggregate for door locks

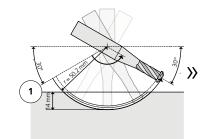
M6 × 16 mm Torx countersunk bolt, 4 pieces, 132159

suitable for cutter arbors

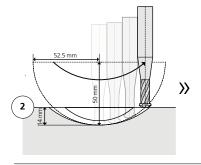
Screwdriver with cross-grip, Torx T20 × 100 mm **271919**



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



P-System CNC shaft tool cutter with 5-axis



P-System CNC shaft tool cutter with 3-axis

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

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

CNC tools

For Cabineo



Drilling System

Cabineo dril/cutter

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

Cabineo drills for triple aggregate*

	Art. No.
Cabineo drills for aggregate Ø 15 mm	136314
RH carbide tipped (right hand rotation)	
	_
	Art. No.
Cabineo drills for aggregate Ø 15 mm	136315
LH carbide tipped (left hand rotation)	

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





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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:	14532
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









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	



Art. No.
131506
131508
255243

P-System



Combination CNC and Zeta P2



Positioning pin CNC for Zeta P2*,

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



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

Tenso P



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

P-System 4 mm depth

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

Divario P



Divario P-18 Marking jig metal with

marking points	Art. No.
Marking jig incl. drill with centering point and	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	253027
2 mm, plastic for 16 mm panels	253023
4 mm, plastic for mitres	253026



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	257532

Batteries



13.	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

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.

Art. No.

Z6 alternating teeth, without hub, with spacer 132106 for Classic X

Groove cutter HW (carbide),



Ø 78×3ר 22mm

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,

Art. No
13210
13213
13213
13211



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

Batteries



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



Art. No.

Battery pack 18 V, LiHD 5.5 Ah

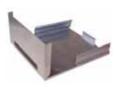
313015



Art. No.
Battery charger ASC 55 123100

Lamello System

Lamello System



Slide shoe for biscuit joiner	Art. No.
To protect the wall and the machine	251057
for 7eta P2/Top 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 × 1 × Ø 22 mm	322510
with screw holes	
for 7eta P2/Ton 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





175050

	The same of the sa		
		Art. No.	
Per meter m ¹		335000	



Tension hooks	Art. No.
2 pieces	175200



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

Drilling System



Art. No.

Cabineo



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

Cabineo drill Ø 15 mm with short centering point	136312
	_
	Art. No.
Cabineo cutter Ø 10 mm	136310
	Art. No.
Cabineo cutter Ø 12 mm	136311
	-
<u></u>	Art. No.
Cabineo drills for aggregate* Ø 15 mm	136314
RH carbide tipped (right hand rotation)	
	Art. No.
Cabineo drills for aggregate* Ø 15 mm	136315
LH carbide tipped (left hand rotation)	

Cabineo dril/cutter



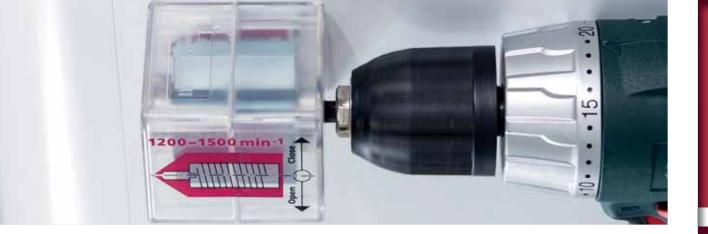
Cabineo cover caps	Art. No.		Art. No.
	100 pieces	2	000 pieces
RAL 9003 signal white	1863505	\bigcirc	1863515
RAL 9010 pure white	186350W		186351W
RAL 9018 papyrus white	186350P		186351P
RAL 1015 light ivory	186350H		186351H
RAL 1011 brown beige	186350B		186351B
RAL 8007 fawn brown	186350R		186351R
RAL 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



Cabineo insert insertion tool	Art. No
For insert M6	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 screw bit	Art. No
1 piece	6112205



invis wix2 wiiniwag	Art. No
Incl. screw bit	610030°



Invis Mx2 flexible shaft	Art. No.
1 piece	6100204



Invis Mx2 insertion jig	Art. N
For studs 14 mm	611233



Art. No	
6112330	

Rasto

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



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



Invis Mx2 spacer	Art. No.
For Rasto	6112331



Rasto perforated plate	Art. No.
1 piece	6160000



Art. No.
6100065
6100056
6100057
6100067
6100058



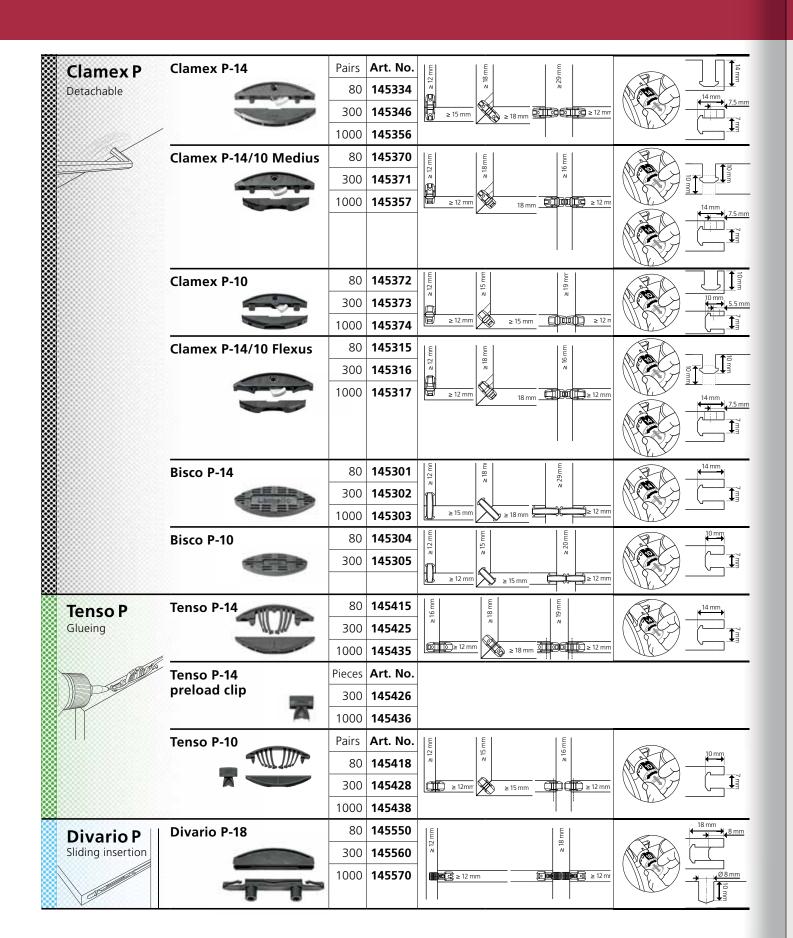
Art. No.
560450

Art. No.
6160001

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

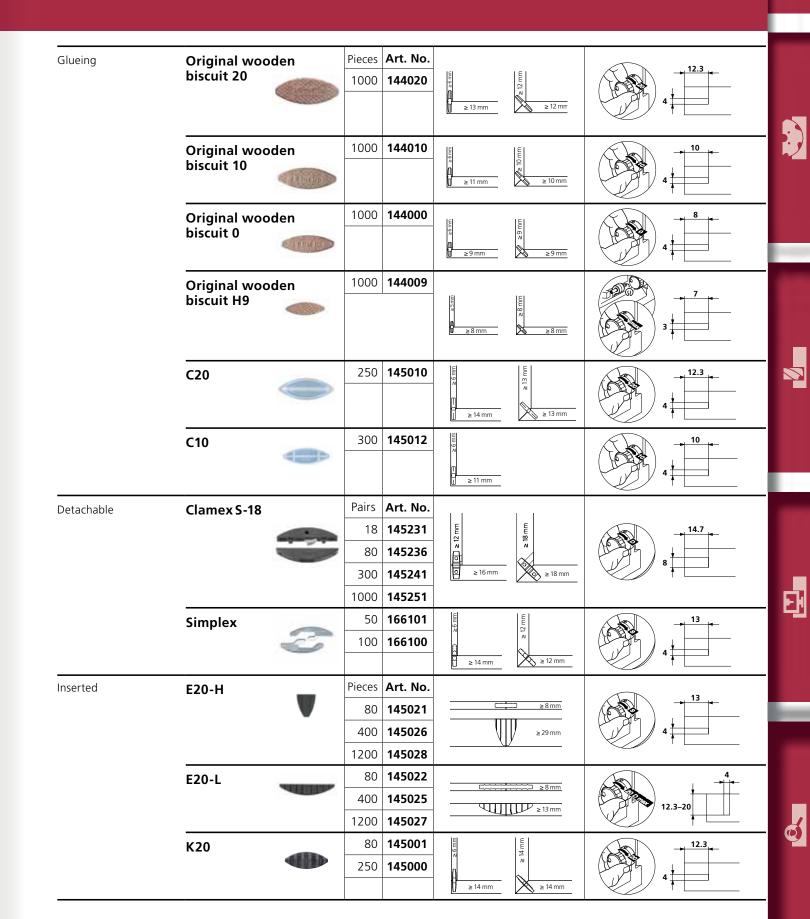
Overview of connectors

P-System



Overview of connectors

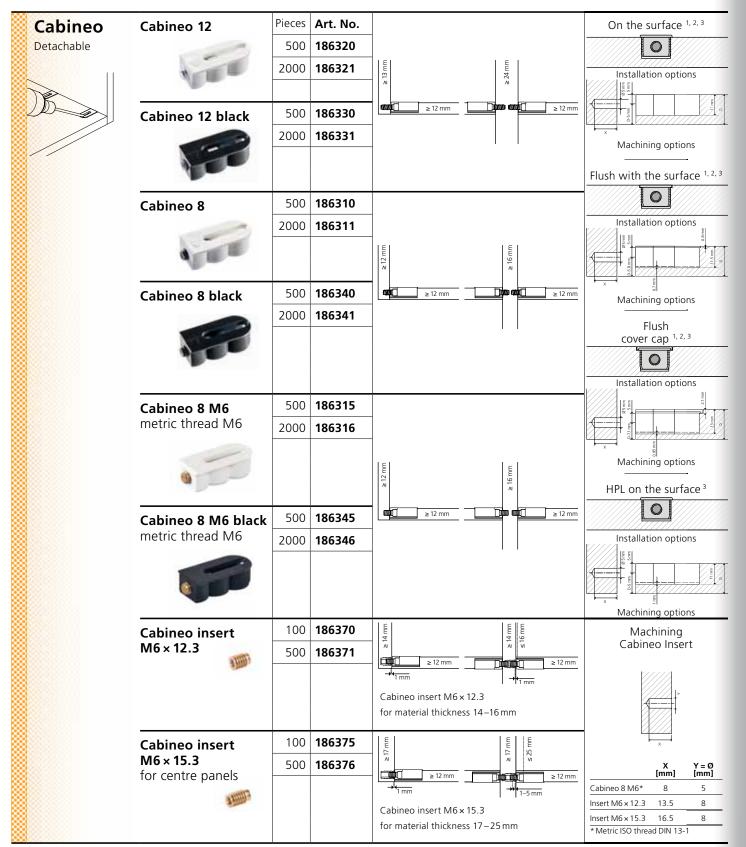
Lamello System

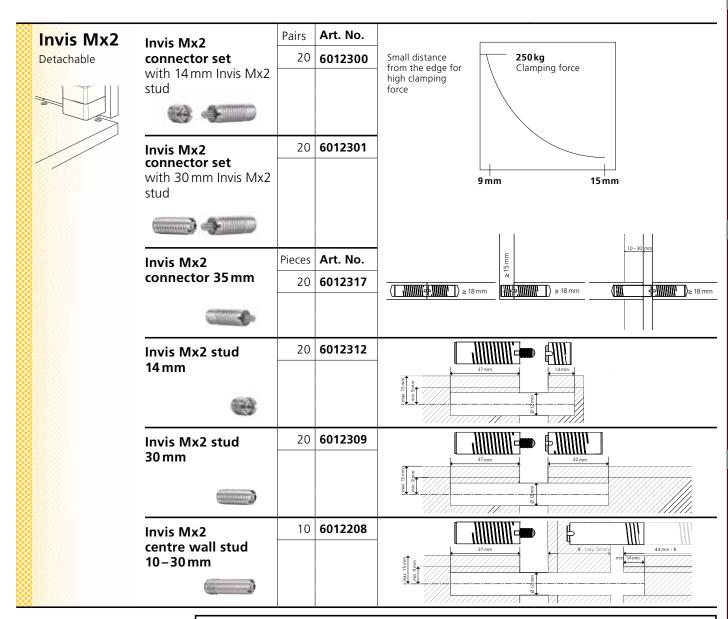


Overview of connectors

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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