



Catalogue

2017/2018

english



Pioneering wood joining
simple ingenuity

A strong connection. Inspiring.

High-end system solutions.

Lamello's exciting and successful history started when the company was founded in 1944. The invention of the original biscuits in 1955 saw Lamello gain worldwide recognition, and large quantities are still produced and installed to this day. Yet anyone who knows Lamello knows that we don't like to stand still. Lamello has continuously developed over the years and has launched numerous innovations. We are proud to be the market leader in the manufacture of

precision joining systems. Working together as a team, we strive to constantly supplement our system solutions with new, practical components that are simpler than you might expect. This in turn enables us to continuously expand the use of our system. Our customers from trade and industry thereby benefit from a wide spectrum of design options, practical functionality and optimised process costs.



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*Far-reaching.
Close to home.*



Lamello head quarter, Bubendorf Switzerland



At home right across the globe.

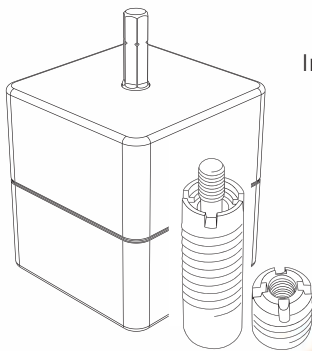
Thanks to our international sales network including four subsidiaries and representations in over 40 countries, we can support our customers worldwide. As such we are available locally for our customers anywhere and at any time, be it for individual advice, training or services.

Looking back. Thinking ahead.

Ideas that were always ahead of their time.

Every milestone starts with an idea. However, defining or even revolutionary ideas don't just come about like that. It is only through many years of practical knowledge and intensive development work together with our customers that we have

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



2001

Interzum award:
**Invis joining
system**



1969

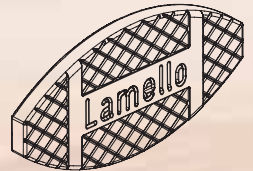
Founding of
Lamello AG

1958

Invention:
**First stationary
Lamello biscuit
joiner LO1**

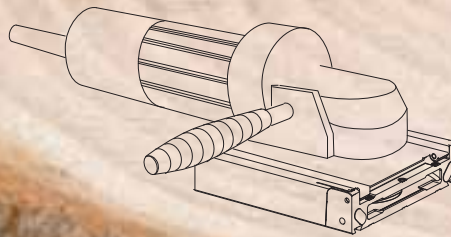
1955

Invention:
Lamello system



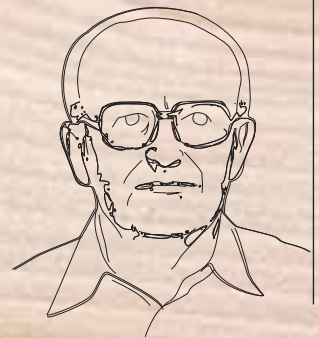
1968

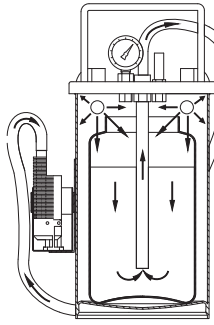
Invention:
**First manually guided
Lamello biscuit joiner**



1944

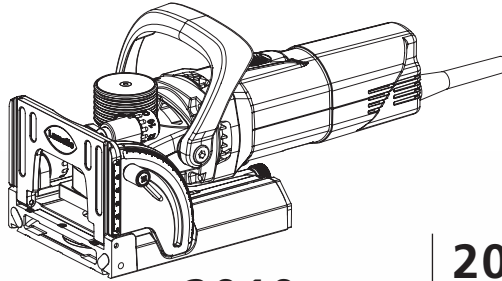
Joinery founded by
**Hermann Steiner in
Liestal**





1996

Acquisition and development:
Schneeberger Leimtechnik

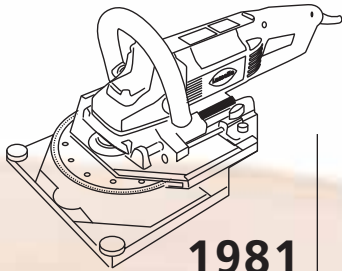
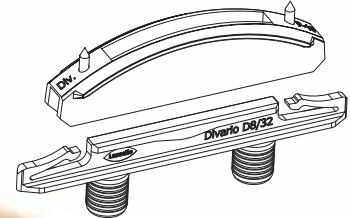


2010

Invention:
**Zeta, power tool
for the P-System**

2015

Interzum award:
**Invention
Divario P-18**

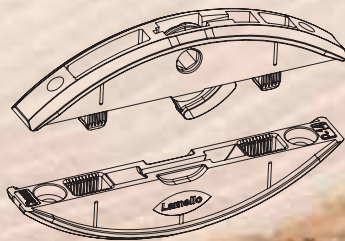


1981

Invention:
**Tanga 150,
window cutter**

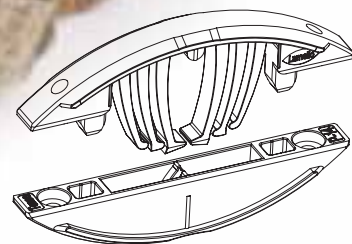
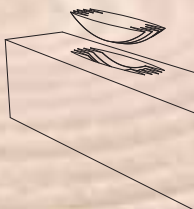
2009

Interzum award:
**Invention
Clamex P**



1970

Invention:
**Wood repair
system**



2013

Interzum award:
**Invention
Tenso P-14**

As a leading manufacturer of precision joining systems, Lamello sets new standards with the P-System when it comes to joining fittings and work pieces. The system's special feature is its form-locking anchorage that does not require the use of adhesive or screws. The great benefit for the customer lies in just how simple it is to install the fittings – taking just a few seconds without the need for tools. The versatile range of P-System fittings is continually being expanded with new, highly practical, innovative components which allow for an increasingly universal application of the system. Our customers in trade and industry benefit continually from the system's high functional efficiency and process cost efficiency.





Susanne Affolter Owner Lamello AG

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

Susanne Affolter

Managing Director and Owner at Lamello AG

Comprehensively designed. Utmost precision.

Our ambition.

When faced with the choice of convincing customers or surpassing expectations, we say: why not do both? We want to win over customers through our committed, well trained and experienced employees. We want to surpass your expectations with our high-quality precision

technology, first-class quality and professionalism. Or, to quote Oscar Wilde: "I have the simplest tastes. I am always satisfied with the best." This quote perfectly sums up our ambitions.



When we say “Swiss-made”, we mean it in the literal sense. We are proud that the wood for our elements has been sourced from where our head office is located in Bubendorf ever since production began. Our original biscuits are also manufactured from this material, using the following process: the round logs that are delivered are initially cut into scantlings, which are then

dried. The lattice design is embossed into the element during the stamping process and the element is compressed. In the next step, the distinctive oval shape is stamped out diagonally to the grain. After successfully passing the quality inspection, the biscuits are delivered from Bubendorf to locations across the globe.



“Formed more than seven decades ago in search of a solution to inspire the wood processing technology industry right through to the present day.”

Karl Steiner, Chairman of the Board of Directors



*“The time saved with
the P-System convinced
us from the start.”*

*from left to right: Hannes Kofler, production planning and organisation;
Daniel Kofler, purchasing and sales at Kofler in St. Felix, Italy*

The name Lamello combines *Tradition and Innovation.*

We particularly value:

A strong connection. Inspiring.

We develop, produce and market intelligent, innovative systems and application solutions that have clear unique selling points and high user value for joining technology. We have an extraordinarily high standard of quality and place immense value on Swiss premium perfection and precision.

Focussed on solutions. Tailored to customers.

Lamello products pay for themselves! Our products should enable our customers to work more flexibly, productively and effectively. At Lamello, we don't take things for granted, but instead set out to impress and inspire our customers on a daily basis. Our system solutions and products should not only meet but exceed our customers' expectations.

Convincing. Thinking ahead.

Our pursuit of outstanding quality is the foundation of our practices and defines the services we offer our customers. You can trust our highly trained, committed employees. We offer many years of experience in high-quality joining and woodworking technology and are equipped with state-of-the-art machinery.

A sense of tradition. An affinity for innovation.

In addition to state-of-the-art technology, we also provide unique solutions – such as the P-System – that continue to amaze our customers. We set innovative market trends thanks to the extensive knowledge we have gathered over the years. By continually developing our products, services and processes, we guarantee our customers the lead in performance. This knowledge is complemented by a large dose of curiosity and a close relationship with our customers.

Uncompromising. Imaginative.

When it comes to the development, construction and design of our products, we are uncompromising and we focus on practical solutions. The result is machinery characterised by its hard-wearing technology, sophisticated design and simple operation. Technology from Lamello gives you significant benefits in the face of global competition, maximises your productivity and opens up new horizons for design and creativity.

Responsible. Firmly rooted.

Lamello products and system solutions are proven to be designed with durability and reliability in mind. This legendary durability helps to preserve precious resources and protects the environment by reducing waste. Moreover, we are constantly improving the energy efficiency of our company and our production processes. The high environmental standards at our production site in Switzerland also ensure careful use of resources – a considerable portion of which come from sustainable management.



P-System

“For us, investing in the P-System from Lamello proved to be worth it.”

Martin Wegscheider, Managing Director, Spechtenhauser in Innsbruck, Austria



Joining with the **P-System**



Form-locking, tool-free installation of Lamello P-System fittings



The P-System is based on a groove with an undercut, into which connectors with various functions can be inserted, ensuring form-locking anchorage. During the process, the cutter moves downwards to the maximum depth and moves sideways in order to create the profile groove.

There are two options for creating the P-System groove:

Power tool

Quick and easy to handle, with a range of applications



Advantages of the Zeta P2

Any angle can be cut in a very short space of time, as no set-up time, software or programming is required. The cutting depth can be adjusted in next to no time. The machine is therefore ideal for cutting individual parts, smaller series, prototypes or working on site.

CNC technology

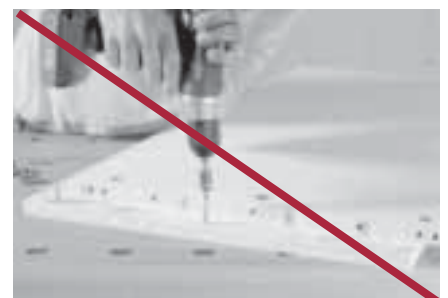
Ideal for series production



Advantages with the CNC machine

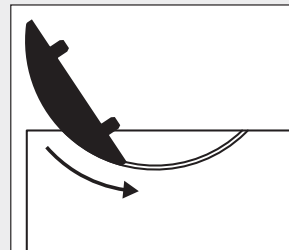
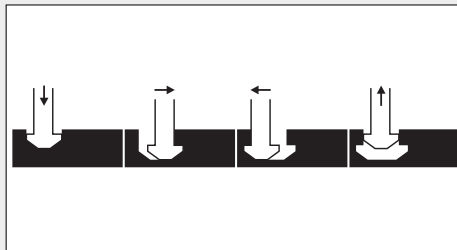
From CAD to the CAM system, direct to the CNC machine – this makes the process faster, reduces the planning time and lowers the risk of errors for repeat orders. The speed when processing larger series on the CNC machine makes the P-System an extremely quick, efficient system, from processing through to assembly.

Quick manual insertion without the need for glue or screws



P-System

Form-locking anchorage
without tools

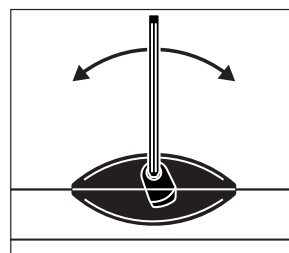
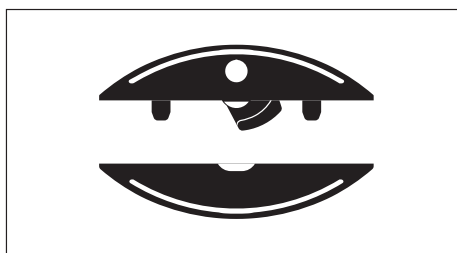


Fast installation

Inserting instead of screwing or
glueing

Clamex P

Detachable connecting fitting



Detachable

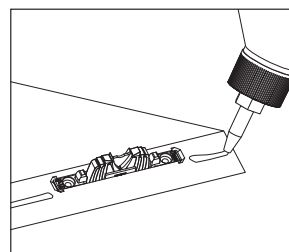
Open the connection time and
time again with the rotating
lever

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Tenso P

with preload clip

Self-clamping fitting as
glueing aid, for all angles



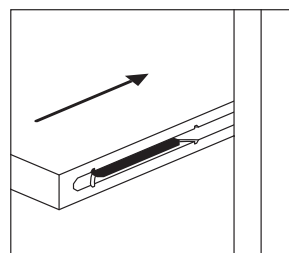
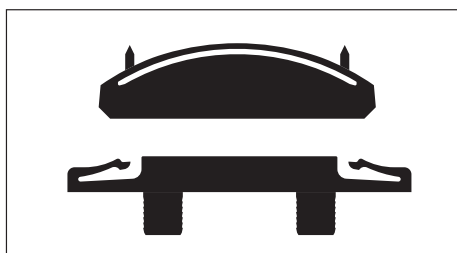
Glueing

Fixed joints of two workpieces

Page 28

Divario P

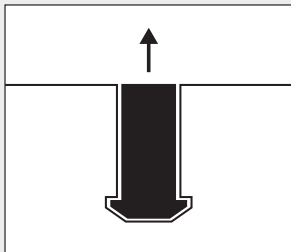
Self-clamping, invisible
fitting for slide insertion



Sliding insertion

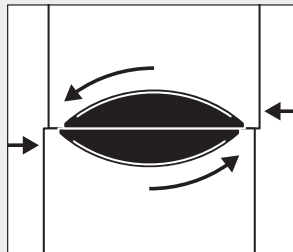
Insertion between two fixed
sides or shelves via a guiding
groove

Page 32



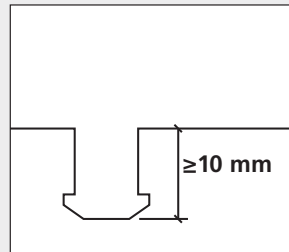
Strong

Form-locking anchorage across large surface areas



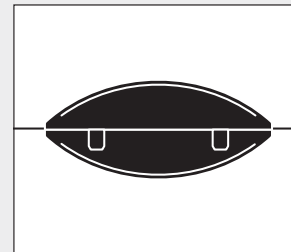
Lateral tolerance

Perfect, flush alignment of both work pieces



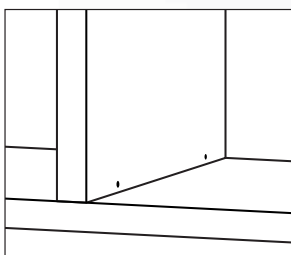
Shallow depth

Minimal cutting depth with maximum tensile strength



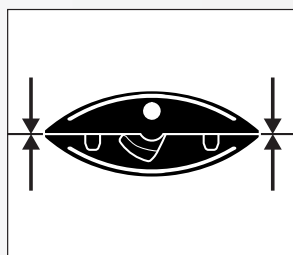
No twisting

The positioning pins prevent twisting without additional dowels



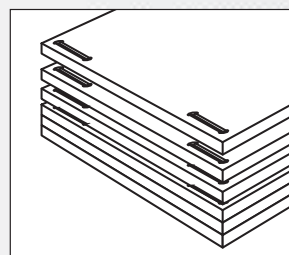
Aesthetic

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



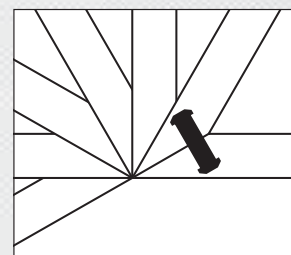
High clamping force

Clamp and glue work pieces at any angle, ~ 80 kg



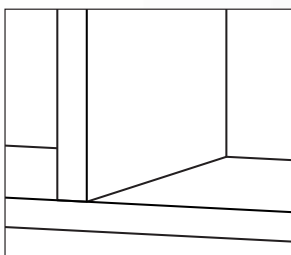
Stackable

Work pieces with pre-installed P-System fittings are stackable for storage and transport



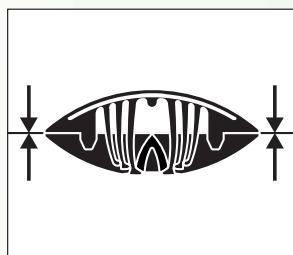
Versatile

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



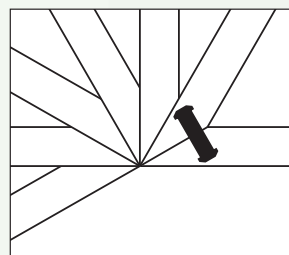
Invisible

No visible fitting



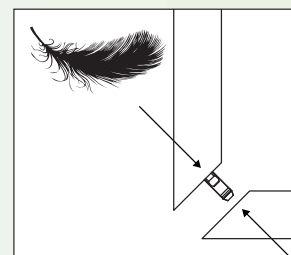
High clamping force

Allows for perfect alignment and clamps the workpieces ~ 15 kg



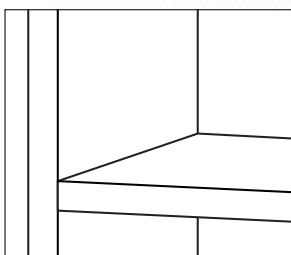
Versatile

Simple glueing of mitre joints



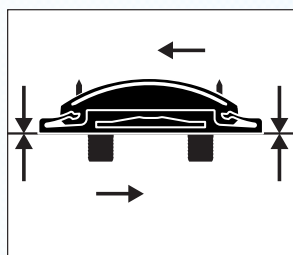
Lower assembly force

Only a short power impulse necessary to join, regardless of the number of connectors



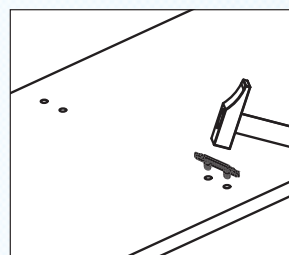
Invisible

Guiding groove covers the fittings



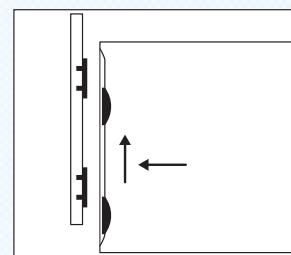
Clamped joint

No resistance while inserting until shortly before building the clamping force



Fast installation

Quick installation of the fittings without glue after transport.



Assembly by sliding

Partially routed guiding groove for completely invisible furniture joints

Clamex P

Detachable connecting fitting



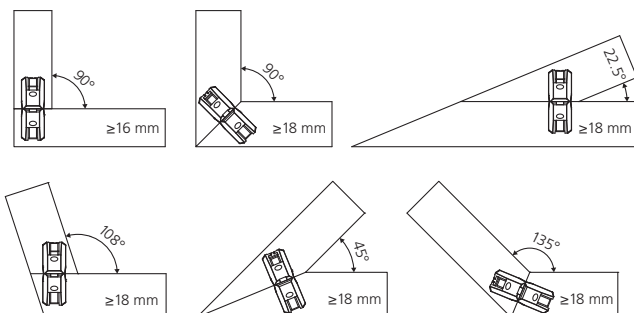
Advantages and properties

- **Small opening 6mm**, differentiation to furniture standards
- **Stackable with pre-installed fittings**, advantages in packaging, transport and logistics
- **Short assembly time on site**, minimal installation cost
- **Versatility for all angles**, same system for all joining situations
- **Freedom of choice during assembly**, detachable or glued construction



Clamex P-14

For panels from 16 mm



Technical data

Size.....	64 × 27 × 9.7 mm
Cutter.....	Ø 100.4 × 7 × 22
Material of connector.....	fibreglass reinforced plastic
Material of lever.....	zinc die cast
Installation tolerance.....	longitudinal ± 1 mm

Tensile strength (N)

MDF	~ 900
Particle board	~ 800
Beech	~ 1000

Clamex P-14

Art.No.

Carton with 80 pairs	145334
Carton with 300 pairs	145346
Carton with 1000 pairs	145356

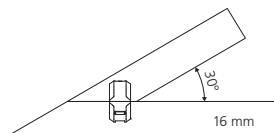
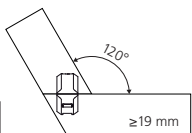
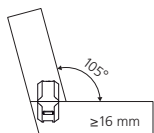
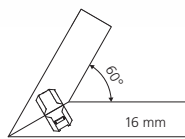
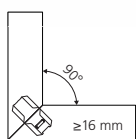
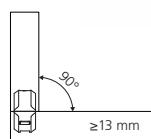
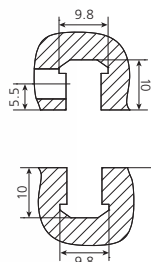
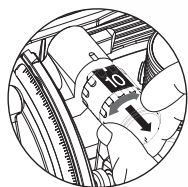
Drill jig P-System **125344**

Accessories can be found
from page 96 onwards



Clamex P-10

For panels from 13 mm



Technical data

Size.....	52 × 19 × 9.7 mm
Cutter.....	Ø 100.4 × 7 × 22
Material of connector.....	fibreglass reinforced plastic
Material of lever.....	zinc die cast
Installation tolerance	longitudinal ± 0.5 mm

Tensile strength (N)

MDF	~ 600
Particle board	~ 600
Beech	~ 900

Clamex P-10

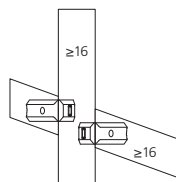
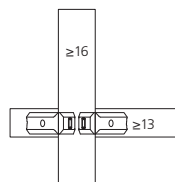
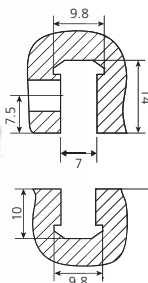
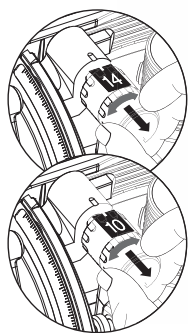
Art.No.

Carton with 80 pairs	145372
Carton with 300 pairs	145373
Carton with 1000 pairs	145374

Drill jig P-System	125344
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Clamex P-Medius 14/10

For centre panels from 16 mm



Technical data

Size.....	64 × 13.5 × 9.7 mm
	52 × 7.5 × 9.7 mm
Cutter.....	Ø 100.4 × 7 × 22
Material of connector.....	fibreglass reinforced plastic
Material of lever.....	zinc die cast
Installation tolerance	longitudinal ± 1 mm

Load (N) (19 mm) Tensile strength (N)

MDF	~ 700	~ 800
Particle board	~ 550	~ 600
Beech	~ 2400	~ 900

Clamex P Medius 14/10

Art.No.

Carton with 80 pairs	145370
Carton with 300 pairs	145371
Carton with 1000 pairs	145375

Drill jig P-System	125344
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Bisco P

Aligning element suitable for Clamex P-14 and Tenso P-14

Advantages and properties

- **Ideal addition to Clamex P and Tenso P**, fits into the P-System grooves, **without requiring a different cutter**
- **Bisco P-14 is ideal for dry-assembly before glueing a joint with Tenso P-14**
- **For aligning P-System grooves**, aligning function without glue

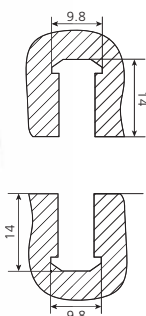
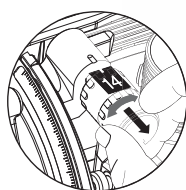
- **Surface structure allows use as a connecting element** when glueing work pieces with PVA glue

Applications of Bisco P

- Separation walls
- Furniture with large depth
- Glueing of work pieces

Bisco P-14

Aligning element suitable for Clamex P-14 and Tenso P-14



Technical data

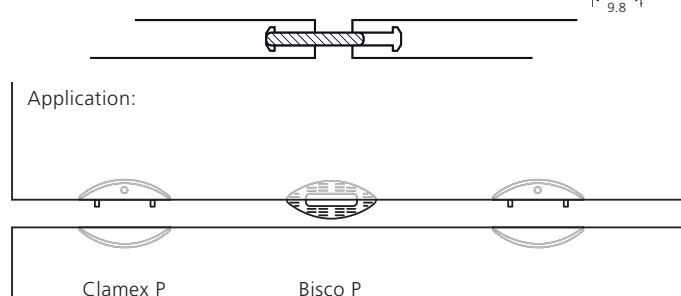
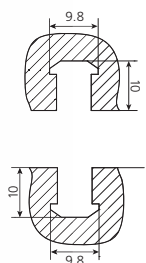
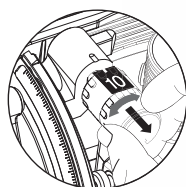
Size Bisco P-14	65 × 27 × 7 mm
Size Bisco P-10	52 × 19 × 7 mm
Cutter	Ø 100.4 × 7 × 22
Material	plastic
Installation tolerance	longitudinal ± 2 mm
Tensile strength with adhesive	~ 400 N ≈ 40 kg

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

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

Bisco P-10

Aligning element suitable for Clamex P-10



Furniture manufacturing / Interior fitting

Your advantages with Clamex P

Aesthetic solution

- Differentiation to furniture standards

Stackable with pre-installed fittings

- Advantages in packaging, transport and logistics

Short assembly time on site

- Minimal installation cost

- | | |
|---|---|
|  Detachable |  Fast installation |
|  Aesthetic |  Strong |
|  High clamping force |  Lateral tolerance |
|  Stackable |  Shallow cutting |
|  Versatile |  No twisting |

Applications

sideboards | shelves | wardrobes | display cases |
kitchen furniture | TV furniture | etc.

Production process

1. P-groove with CNC

- **Same profile groove for both workpieces**
- Short process time
- Direct data transfer from CAD / CAM
- No additional dowels for alignment necessary

2. Storage

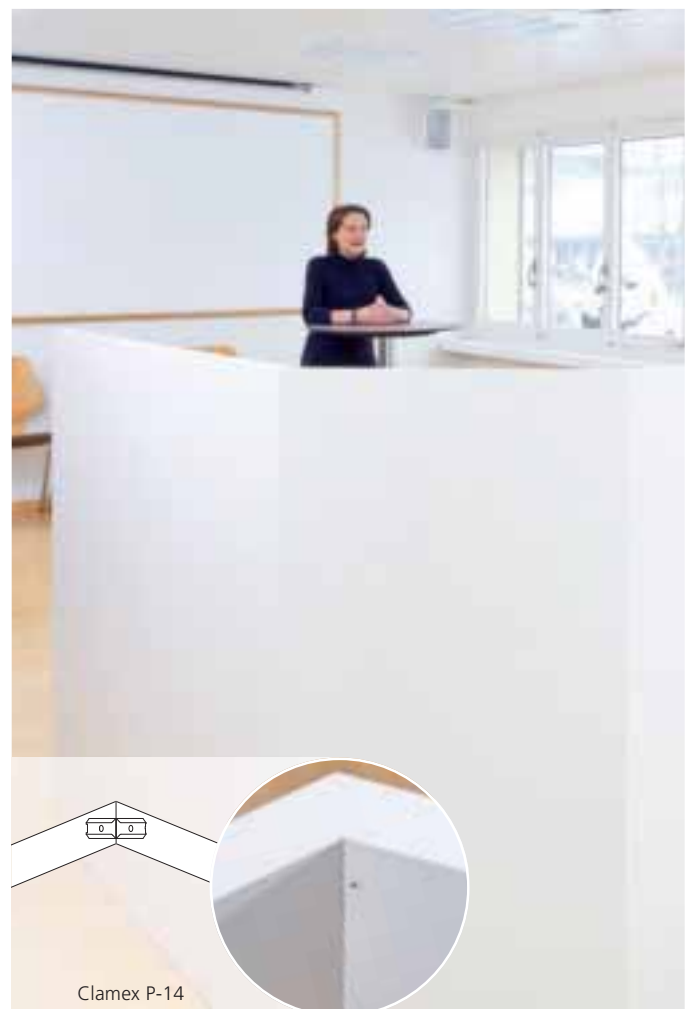
- **Small storage volume when stacking despite installed connector**
- Remove the connector for surface treatment – fast and easy
- Short reaction time for finishing of standard parts

3. Delivery in parts

- **Small transport volume** with pre-installed fittings due to stackability
- **Smaller stock volume** for the dealer
- Easy transport of the parts into the building

4. Assembly on site

- **Shorter assembly time at the customer's due to the pre-installed connectors**
- Easy to assemble for a lay person with an allen key
- No second person necessary
- No dowels for lining-up necessary
- Easy to take apart when moving



Clamex P – applications

Furniture manufacturing / Interior fitting

Your advantages with Clamex P

Aesthetic solution

– Differentiation to furniture standards

Stackable with pre-installed fittings

– Advantages in packaging, transport and logistics

Short assembly time on site

– Minimal installation cost

- | | |
|---|--|
| ✓  Detachable | ✓  Fast installation |
| ✓  Aesthetic | ✓  Strong and form-locking |
| ✓  High clamping force | ✓  Lateral tolerance in P-System groove |
| ✓  Stackable | ✓  Shallow cutting depth |
| ✓  Versatile | ✓  No twisting |

Applications

sideboards | shelves | wardrobes | display cases |
kitchen furniture | TV furniture | etc.



© Domino Möbel AG

Shop fitting / kitchen manufacturing

Your advantages with Clamex P

Stackable with pre-installed fittings

– Advantages in packaging, transport and logistics

Versatility for all angles

– Same system for all joining situations

Freedom of choice during assembly

– Detachable or glued construction

Short assembly time on site

– Minimal installation cost

- | | |
|---|--|
| ✓  Detachable | ✓  Fast installation |
| ✓  Aesthetic | ✓  Strong and form-locking |
| ✓  High clamping force | ✓  Lateral tolerance in P-System groove |
| ✓  Stackable | ✓  Shallow cutting depth |
| ✓  Versatile | ✓  No twisting |

Applications

wall elements | furniture | show cases | changing rooms |
stools | etc.





Tenso P

glue faster, for all angles

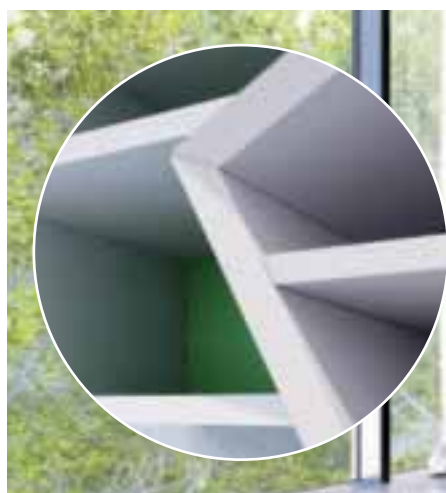


Tenso P-14, advantages and properties

- **Can be used as a glueing aid**, with high tightening force/ clamping force (no clamps or presses necessary)
- **A perfect look**, completely concealed/invisible
- **Reliable and quick**, tool-free connector installation (simple and quick, without screws or adhesive)

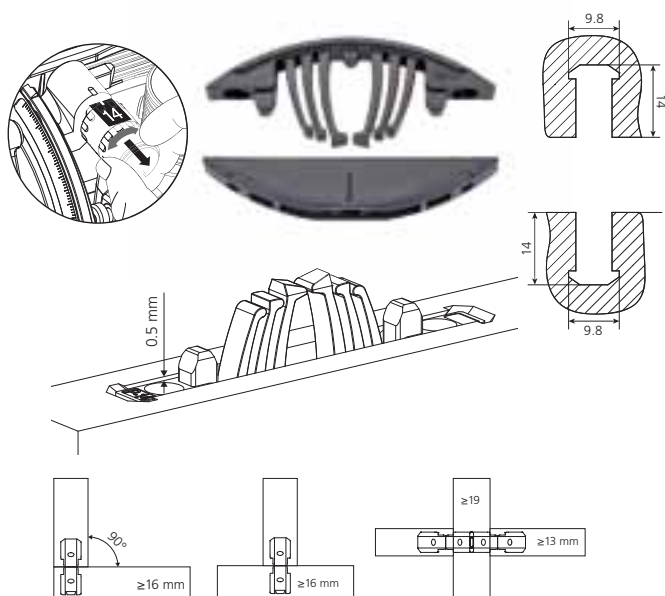
Tenso P-14 with preload clip, advantages and properties

- Versatile, simple gluing of mitre joints
- Minimum force required, only a short force impulse is needed for insertion
- Effortless connection, regardless of the number of connectors



Tenso P-14

Self-clamping fitting as glueing aid



Technical data

Size.....	66 × 27 × 9.7 mm
Cutter.....	Ø 100.4 × 7 × 22
Material	fibreglass reinforced plastic
Installation tolerance	longitudinal ± 1 mm

Clamping force (N)

Per fitting	~ 150
-------------	-------

Tenso P-14 with preload function	Art.No.
Carton with 80 pairs (without preload clip).....	145415
Carton with 300 pairs (without preload clip).....	145425
Carton with 1000 pairs (without preload clip).....	145435

Accessories can be found from page 97 onwards

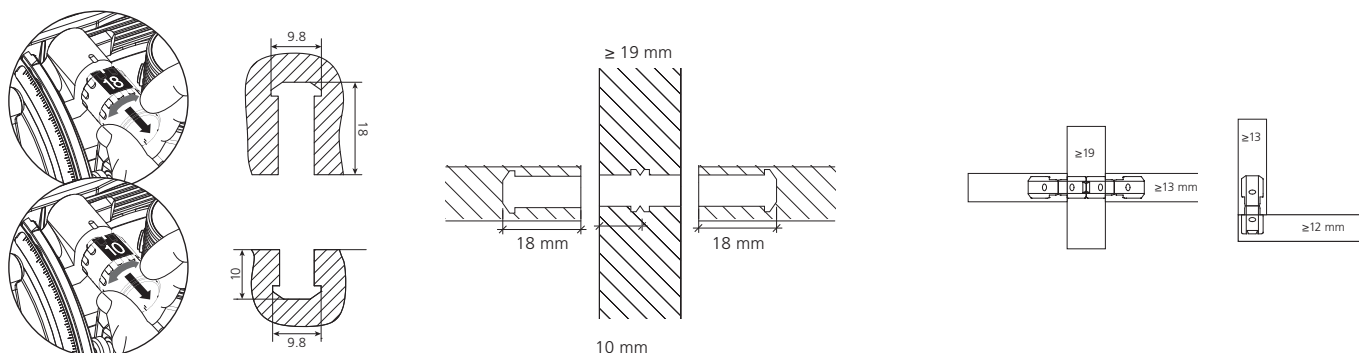
Important:

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



2013

Installation with off-set



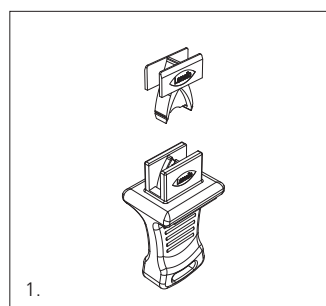
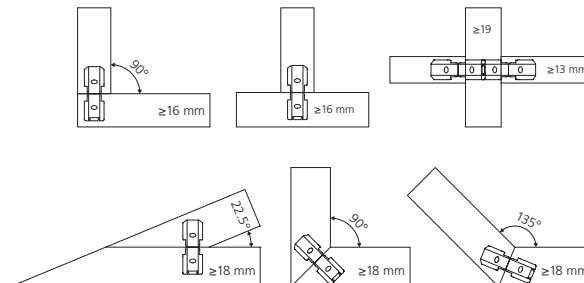
Tenso P-14 + preload clip

Self-clamping fitting as glueing aid,
for all angles

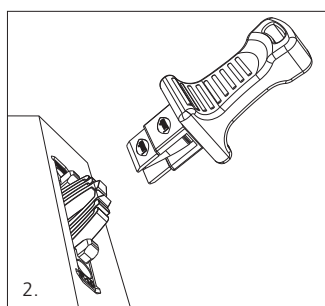
Tenso P-14 Starter-Set	Art.No.
Carton with 80 pairs (with preload clip).....	1454155
Carton with 300 pairs (with preload clip).....	1454255

Preload clip	Art.No.
Carton with 300 pieces	145426
Carton with 1000 pieces	145436

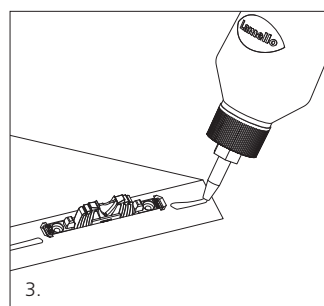
Accessories can be found from page 97 onwards



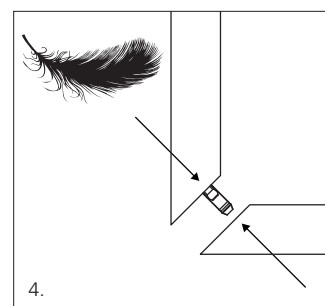
1.
Insert preload clip into
installation tool



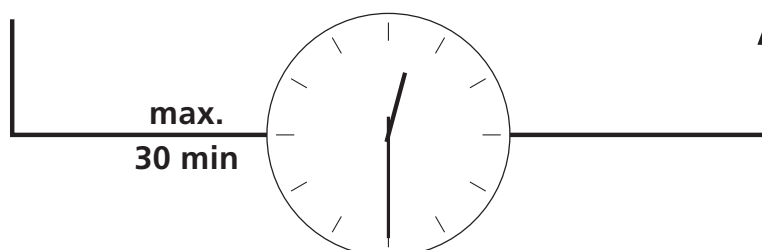
2.
Preload the Tenso
P-14



3.
Apply glue



4.
Assemble Work pieces



Tenso P-14 – applications

Furniture manufacturing / Interior fitting

Your advantages with Tenso P-14

Fast glueing process

- Time saving without clamps and protectors
- Ship workpieces immediately after assembly, no waiting time for the glue to dry

Clamps the joint from the inside

- Clamping force perfectly perpendicular to the glue surface
- Glueing of shaped workpieces
- Simultaneously aligns and clamps

- | | |
|---|---|
| ✓  Glueing | ✓  Fast installation |
| ✓  Invisible | ✓  Strong |
| ✓  High clamping force | ✓  Lateral tolerance |
| ✓  Versatile | ✓  Shallow cutting |
| ✓  Lower assembly force | ✓  No twisting |

Applications

furniture | shelves | stools | sideboards | wardrobes |
separating walls | cladding | decorative strips | covering panels |
plinths | face frames etc.

Production process

1. Cutting the groove with Zeta P2

- Quick, easy and precise work with the well-known Lamello system
- Quick, easy and precise work with the well-known Lamello system

2. Temporary storage

- Small volume due to stackability with pre-installed fittings
- Remove fittings without tools for the surface treatment

3. Assembly in the factory

- Quick and efficient glueing
- No additional clamping device necessary
- No pressure marks and damage due to protectors or clamps on the work piece
- Excess glue is removed with ease right after assembly
- Furniture is automatically in the correct angle
- No additional person helping with applying the clamps

4. Delivery: product already assembled

- Short assembly time on site with pre-assembled elements / furniture parts



Shop fitting

Your advantages with Tenso P-14

Stackable with pre-installed fittings

- Advantages in packaging, transport and logistics

Short assembly time on site

- Quick and easy gluing without additional aids
- Minimal installation cost

- | | |
|--|---|
|  Glueing |  Fast installation |
|  Invisible |  Strong |
|  High clamping force |  Lateral tolerance |
|  Versatile |  Shallow cutting |
|  Lower assembly force |  No twisting |

Applications

furniture | shelves | stools | sideboards | wardrobes | show cases |
sales counters | separating walls | cladding | face frames etc.

Production process

1. Cutting the groove with CNC

- Same profile groove for both workpieces
- Direct data transfer from CAD / CAM



2. Temporary storage

- Small volume with pre-installed fittings due to stackability
- Remove fittings without tools for the surface treatment



3. Delivery: product in parts

- Small transport volume (flat pack)
- Easier transport of the workpieces to the job site
- Reduced amount of assembly aids without the need of clamps and protectors



4. Assembly on site

- Quick and efficient assembly on site
- No waiting time before the clamps are removed
- No transporting clamps and protectors to and from the job site
- Customer-friendly, quick and clean installation



2013



Divario P

Self-clamping, invisible fitting
for slide insertion



Advantages and properties

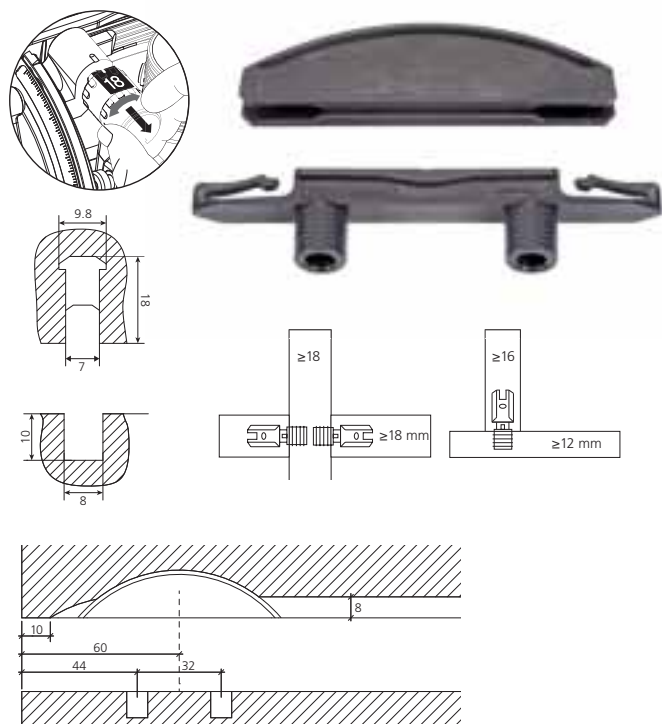
- **Completely invisible joint** for highest quality standards
- **Joins and clamps** during insertion for perfectly closed joints
- **Efficient machining and installation** with a CNC or a Zeta based on the P-System

- Narrow element for the use in **shelves from 19 mm**
- No resistance while inserting until shortly before building the clamping force
- **Insertion of shelves** after transport for lower transport weight



Divario P-18

Self-clamping, invisible fitting
for slide insertion



Technical data

Half for P-System groove	65 × 16 × 9.7 mm
Half for drill holes.....	Ø 8 × 9 mm, distance 32 mm
Cutter.....	Ø 100.4 × 7 × 22
Material	fibreglass reinforced plastic
Installation tolerance	longitudinal ± 1 mm

Load per fitting (N)

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

Tensile strength (N)

all materials	600
---------------	-----

Divario P-18

Art.No.

Starter-Set 80 pairs incl. Installation tool	145550S
Starter-Set 80 pairs in Systainer Size I, incl. Installation tool and marking jig in metal	145551
Carton with 80 pairs	145550
Carton with 300 pairs	145560
Carton with 1000 pairs	145570
Divario P-18 Installation tool	125500
Divario P-18 marking jig in metal incl. drill	125510
Divario P-18 marking jig in plastic	125511

Accessories can be found from page 97 onwards

Furniture manufacturing / Interior fitting

Your advantages with Divario P-18

Efficient installation

- Fitting to insert by hand or install by hammer
- Fixing pins to drive into the wood for efficient installation
- Drilling into the surface possible with a CNC machine without angle aggregates (e.g. nesting machines)
- Possible in the factory or on site with a CNC or a Zeta P2

Clamped joints

- Joint with high tensile strength
- Reinforcing tall cupboards with fixed shelves
- perfect look with closed joints
- No clamps or presses necessary

Sliding insertion in a second process

- The outer cabinet can be joined in a first process
- Transport of the empty cabinet to save weight
- Assembly of the complete furniture piece on site possible (flat pack)
- Insertion of the shelves without glue or clamping aids
- Detachable for transport

- | | | | |
|---|-----------------------|---|---------------------|
|  | ✓ Sliding insertion |  | ✓ Fast installation |
|  | ✓ Invisible |  | ✓ Strong |
|  | ✓ Clamped joint |  | ✓ Lateral tolerance |
|  | ✓ Fast installation |  | ✓ Shallow cutting |
|  | ✓ Assemble by sliding |  | ✓ No twisting |

Applications

Cabinets, shelves, open room dividers, wine racks, side boards, cupboards, separating walls, showcases, hanging elements etc.



hülsta, D-48702 Stadthlohn



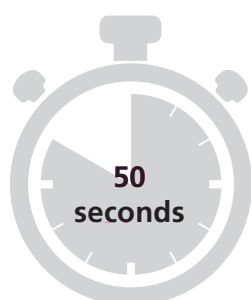
2015

Zeta P2

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



Watch the video:
www.lamello.com



Fastest joining system with a power tool

Connection is complete within seconds, without the need for waiting time, clamps, or secondary processes

Connected in seconds with Clamex – detachable



1. Cut



2. Drill



3. Insert



4. Connect – finished!

Time for one connector pair

1. Cut	25
2. Drill	15
3. Insert	5
4. Connect – finished!	5

Ready in **50 seconds**

Connected in seconds with Tenso – glued



1. Cut



2. Insert



3. Apply glue



4. Connect – finished!

Time for one connector pair

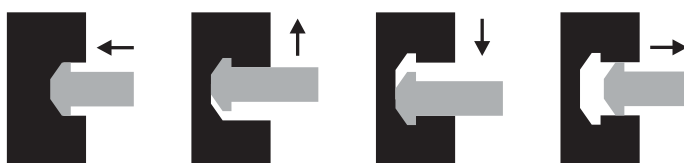
1. Cut	25
2. Insert	5
3. Apply glue	5
4. Connect – finished!	5

Ready in **40 seconds**



Advantages and properties

- Zeta P2, the power tool **for fast, form-locking anchorage of all P-System connecting fittings** for wood joints
- The **automatic vertical movement** creates a profile groove enabling manual insertion of the connecting fittings
- **Time saving when installing fittings** due to the innovative profile groove concept which saves labour cost as well as the cost for glue or screws, insertion of the fittings by hand, without using glue or screws, greatly reduces labour time while also negating the need for additional fastening materials

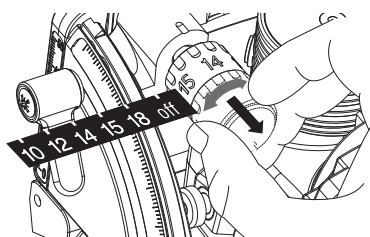


Vertical mechanical drive (VMD)

Profile groove function

The vertical mechanical drive is the core of the machine

- **Fast ~ 1 second**
- **User-friendly** with automatic operation of the cutting process
- **Switch off the VMD** to use the machine as a standard biscuit joiner enabling 11 more applications (see page 52)



- **Depth 18** for Divario P-18
- **Depth 14** for Tenso P-14, Clamex P-14 and Clamex P Medius (larger side), Bisco P-14
- **Depth 10** for Clamex P-10 and Clamex P Medius (smaller side), Bisco P-10
- **Depth «off»** for groove millings without profile groove = for standard biscuit joiner

Zeta P2-Set

Art.No.

with carbide tipped profile groove cutter in Systainer...	101402S
cutter supplied	132141
with diamond tipped profile groove cutter in Systainer..	101402DS
cutter supplied	132140

Technical data

Power / Voltage.....	1050 W / 230 V
	800 W / 120 V
Speed	9'000 min ⁻¹
P-System Cutter	Carbide tipped / Diamond tipped
	Ø 100 x 7 x 22 mm
Teeth	Z3
Cutting depth max.	20 mm
Weight.....	3.7 kg

Kit contains

– Zeta P2	– Disc for angles
– P-System cutter 7 mm	– Spacer 2 + 4 mm
– Stop square	– Tools
– Suction stub 23 + 36 mm	– P-System drill jig incl. drill

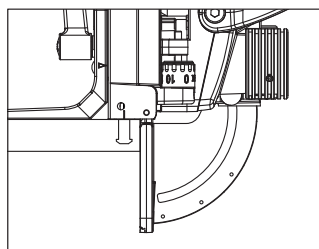
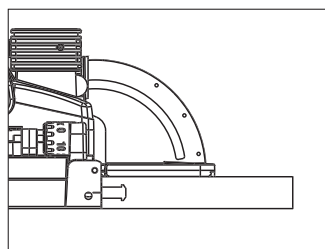
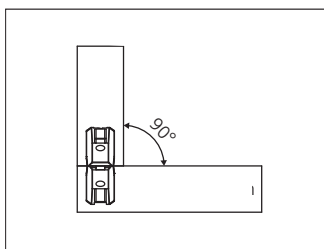


Accessories can be found from page 96 onwards

Zeta P2 – versatile and fast

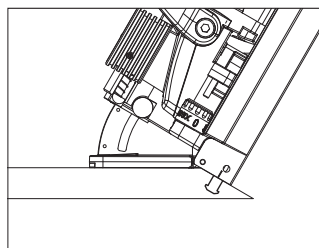
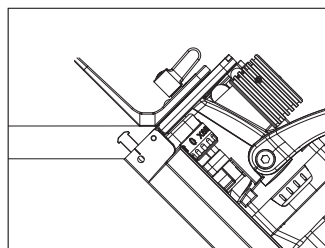
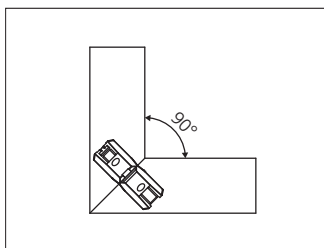
With the Zeta P2, you can quickly and flexibly connect parts with a range of angles and joining situations. Suitable for individual pieces of furniture as well as prototypes and series.

90° corner or dividing panel connection



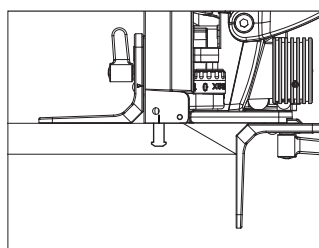
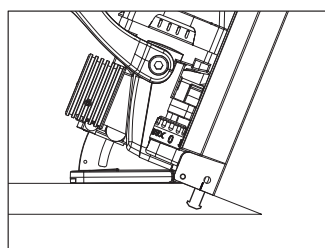
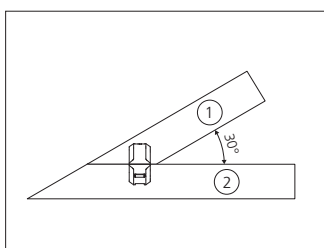
Swivel down the front and apply on the outer sides of the workpieces when cutting. The two workpieces will then fit perfectly together, even when the material thicknesses are different.

Mitre connection 45° – 180°



For 45° or 22.5° angles, slide the stop square onto the front and place it on the outer side of the workpiece. For all other angles, swivel the front stop forward and make the cut applying on the inner side.

Obtuse mitre connection, 22.5° – 120°



Swivel the front stop to the correct angle and place the machine on the inner side. Copy the centre position of the cut onto the other workpiece, slide the stop square onto the front and cut.

Working with centre marking



1. Cut and mark the centre of the cut



2. Copy the centre to the second workpiece



3. Align the Zeta P2 with the marking



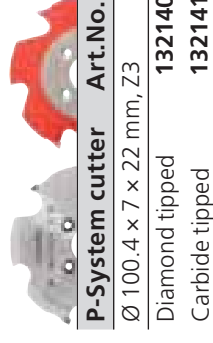
4. Produce connections at all angles

P-System

www.lamello.com

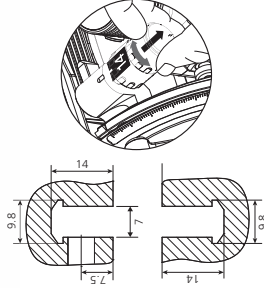


P-System



P-System cutter	Art.No.
Ø 100.4 x 7 x 22 mm, Z3	132140
Diamond tipped	132141
Carbide tipped	132141

Clamex P-14



Detachable connecting fitting

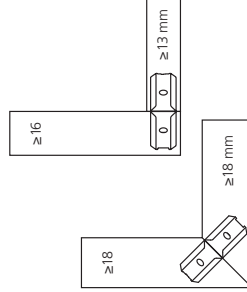
Size 64 x 27 x 9.7 mm

Tensile strength

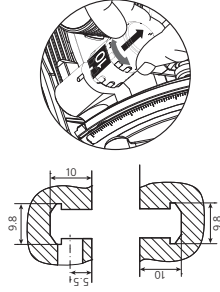
Particle board: ~ 800 N
Beech: ~ 1'000 N

Art.No.

80 pairs **145334**
300 pairs **145346**
1000 pairs **145356**



Clamex P-10



Detachable connecting fitting

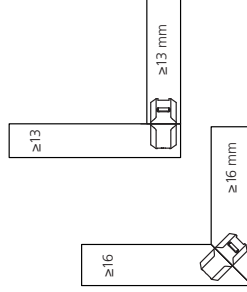
Size 52 x 19 x 9.7 mm

Tensile strength

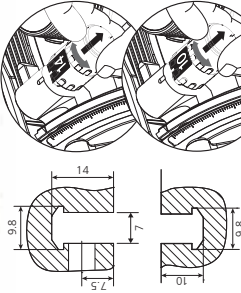
Particle board: ~ 600 N
Beech: ~ 900 N

Art.No.

80 pairs **145372**
300 pairs **145373**
1000 pairs **145374**



Clamex P Medius 14 / 10



Detachable connecting fitting for centre panels

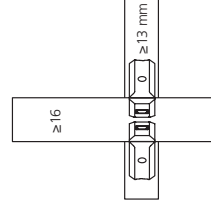
Size 64 x 13.5 x 9.7 mm
52 x 7.5 x 9.7 mm

Tensile strength

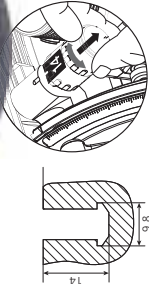
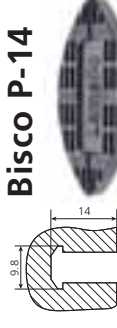
Particle board: ~ 700 N
Beech: ~ 900 N

Art.No.

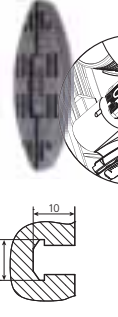
80 pairs **145370**
300 pairs **145371**
1000 pairs **145377**



Bisco P-14



Bisco P-10



Aligning element suitable for Clamex P-14 + Tenso P-14 and Clamex P-10

Size 65 x 27 x 7 mm
52 x 19 x 7 mm

Bisco P-14

80 pieces

Bisco P-10

52 x 19 x 7 mm

Art.No.

80 pieces **145301**
300 pieces **145302**
1000 pieces **145303**

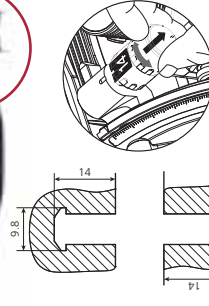
Art.No.

80 pieces **145304**
300 pieces **145305**

Bisco P-14: Ideal for dry assembly before glueing with Tenso P-14

Tenso P-14

with preload function



Self-clamping fitting as gluing aid

Size 66 x 27 x 9.7 mm

Tightening force

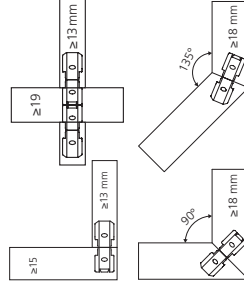
per connector: ~ 150 N

Art.No.

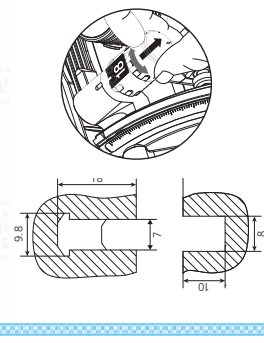
80 pairs **145415**
300 pairs **145425**
1000 pairs **145435**

Art.No.

300 pieces **145426**
1000 pieces **145436**



Divario P-18



Self clamping, invisible fitting for slide insertion

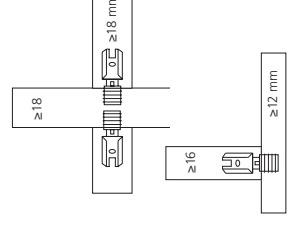
Size 65 x 16 x 9.7 mm
Ø 8 x 9 mm

Tensile strength

all materials: ~ 600 N

Art.No.

80 pairs **145550**
300 pairs **145560**
1000 pairs **145570**



P-System CNC

“With the P-System on our CNC machine we achieve a significant increase in productivity daily.”

from left to right: Nicolas Rassinfosse and Pierre Vereecken, directors of Modul 3 in Gembloux, Belgium





Joining with the **P-System** **CNC technology**



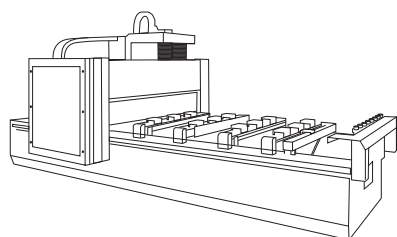
CNC partners

Design and production software, aggregates, cutting tools and CNC machining – these companies assist you with the efficient manufacturing with the P-System:

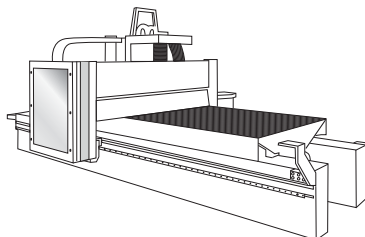


To see more of our partners, visit Lamello.com

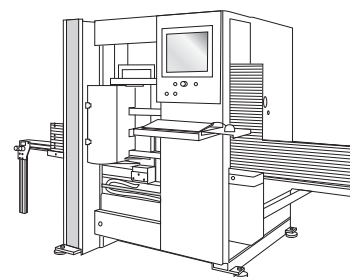
Installation options with CNC



CNC processing centres with
pad and rails



CNC processing centres with
nesting technology



Vertical CNC processing centres

CNC machines with equipment options for particularly efficient processing



BHX 200



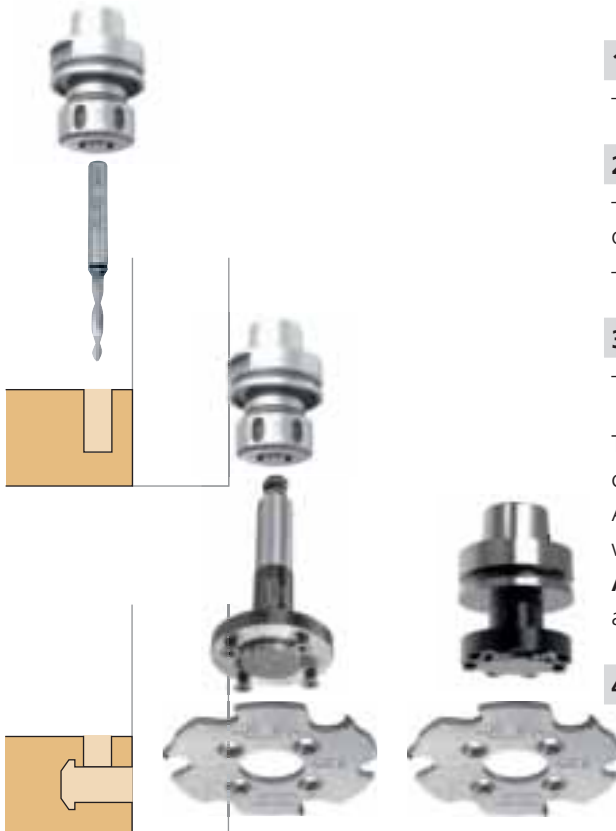
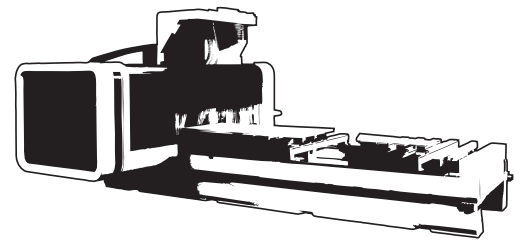
Evolution 7405



Brema Eko 2.1

CNC machines

What setup do I need if I want to create P-System grooves with my CNC machine?



1. CNC machine

- Machine with 3/4/5 axes + angle aggregate

2. CNC software

- Purchase software/macro/component from the manufacturer or
- Program the macro yourself

3. Suitable angle aggregate

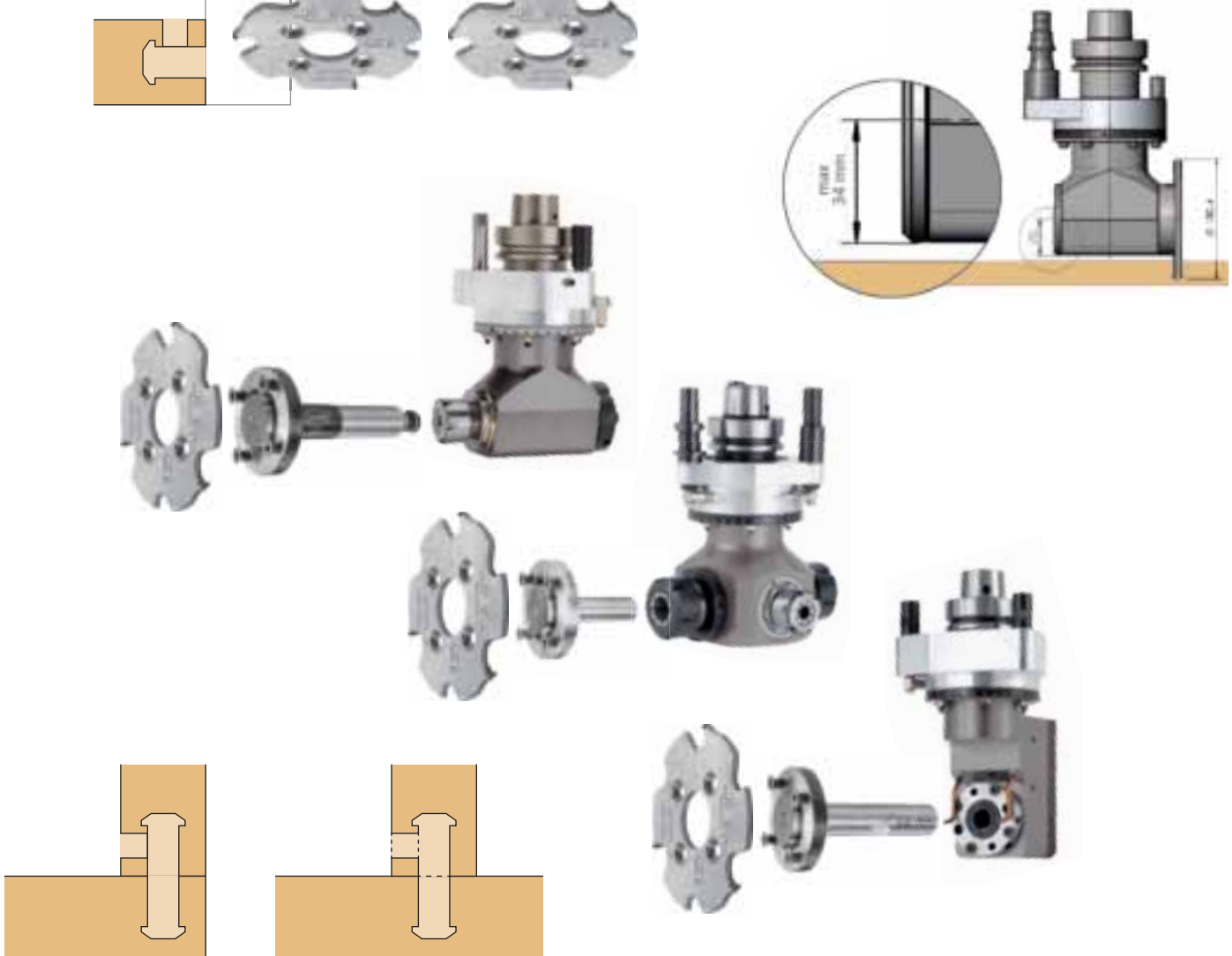
- Aggregate sub program

The angle aggregate also enables the P-System groove to be cut in the centre of the surface

An overview of other aggregates is available on our website: www.lamello.com

Attention: Get the approval to use the P-System cutter on the aggregate from the CNC manufacturer

4. P-System cutting tool





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



P-System CNC groove cutter, Ø 100.4 × 7	Art.No.
× 30 mm, 4 / 6.6 / DTK 48 mm, Z3, suitable for all cutter arbors listed below	132142
× 30 mm, 4 / 6.6 / DTK 48 mm, Z6, suitable for all cutter arbors listed below	132145
× 40 mm, 4 / 5.5 / DTK 52 mm, Z3	132143
E.g. for angle aggregates, Flex 5, Flex 5+	
× 16 mm, 4 / 5.5 / DTK 28 mm, Z3	132144
E.g. for corner notching aggregate	
× 35 mm, 4 / 5.5 / DTK 50 mm, Z3	132148



P-System CNC cutter arbors 30 / DTK 48 mm	Art.No.
Shaft Ø 20 × 50, L = 102 mm	132150
Shaft Ø 25 × 60, L = 102 mm	132151
Shaft Ø 16 × 50, L = 85 mm	132152
Shaft Ø 16 × 55, L = 68 mm	132153
Shaft Ø 16 × 50, L = 85 mm, with clamping surface (2°- angle)	132154
E.g. for aggregate for door locks	
Shaft Ø 20 × 50, L = 85 mm, with clamping surface (2°- angle)	132155
E.g. for aggregate for door locks	
M6 × 16 mm Torx countersunk bolt, 4 pcs, suitable for cutter arbors	132159
Screwdriver with cross-grip, Torx T20 × 100	271919



P-System CNC shaft tool cutter	Art.No.
Solid carbide, shaft Ø 12 × 40, L = 80 mm	131342
Only for machining panel centres with 5 axis CNC machines	



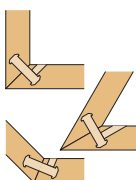
Positioning pins for Zeta P2	Art.No.
Ø 5 mm, 1 pairs	251048
Ø 8 mm, 1 pairs	251066
For positioning in positioning holes with a diameter of Ø 5 mm or 8 mm	



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

Requirements for CNC machines:

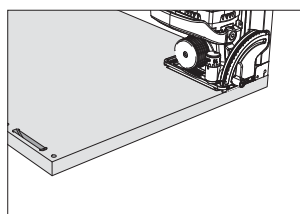
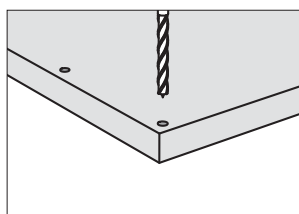
- Either the macro and component software for the desired angle are provided or you have programmed these yourself
- Aggregate sub program is available

Machines	Axes	Equipment (Varies depending on machine and aggregate) CNC tools on page 43			Surface 180°	Corner 90°	Centre wall 90°	Mitre 22.5° – 180°
								
Portal	3 / 4		—	1 × P-System cutter 1 × cutter arbor 1 × drill Ø 6 mm				
				2 × P-System cutter (2) × cutter arbor 1 × drill Ø 6 mm				
				1 × P-System cutter 1 × cutter arbor 1 × P-System drill Ø 6 mm				
	4			1 × P-System cutter + adaptor 1 × P-System drill Ø 6 mm + adaptor				
	5		—	1 × P-System cutter 1 × cutter arbor 1 × P-System drill Ø 6 mm			  	
				2 × P-System cutter (2) × P-System cutter arbor 1 × P-System drill Ø 6 mm				
Nesting	3 / 4	—	—	1 × drill Ø 5 mm 1 × drill Ø 6 mm				
	5		—	1 × P-System cutter 1 × cutter arbor 1 × P-System drill Ø 6 mm			 	

 Possible

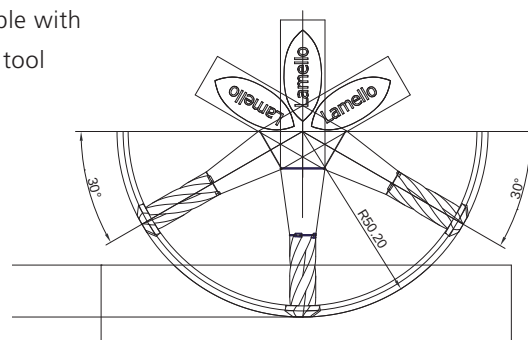
 Only possible with Zeta P2 and positioning pins

Tip: Instead of using an angle aggregate, the Zeta P2 power tool can be used to cut the P-System groove in the centre of the surface. To do so, drill two 5 mm positioning holes spaced at 101 mm in the work piece surface using the CNC machine. These are required to align the Zeta P2 on the work piece.



 Possible with shaft tool

 Not possible

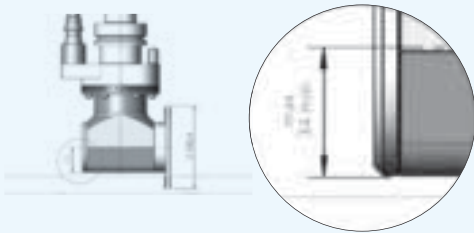


More on page 46

For more information, visit: www.lamello.com

Aggregates

A Angle aggregate

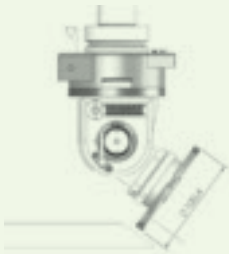


Possible angle aggregates

- One to four spindel angle aggregates
- Corner notching aggregate
- Aggregate for door locks

An aggregate overview can be found on the Lamello website: www.lamello.com

B Manually adjustable swivelling aggregates



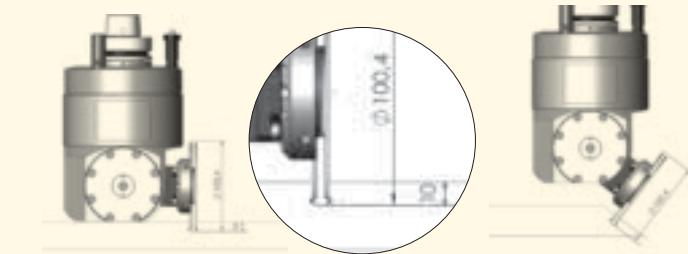
Information: The use of several aggregates is required. Several tool changes required for angle cuts, drilling and P-System grooves

Information: The cutting depth in the centre of the

surface may be restricted depending on the model

Tip: For mitres, spare yourself a tool change and drill the hole using a manual drill jig!

C Automatically adjustable swivelling aggregates (Flex 5+C, from manufacturing year 2015)



Note: Automatically adjustable swivelling aggregate with automatic tool changer. The profile groove is restricted to 10 mm in the centre of the surface

Advantages in the production process

1. P-System groove with CNC



- Same profile groove for both work pieces
- Short process time
- Less processing than for other connection methods
- Direct data transfer from CAD / CAM

2. Storage



- Small storage volume due to stacking despite installed connector
- Shorter reaction time for the continuation of the next process

3. Delivery: in parts



- Smaller transport volume without damaging the parts
- Easy transport of the parts into the building (stairs, elevator)

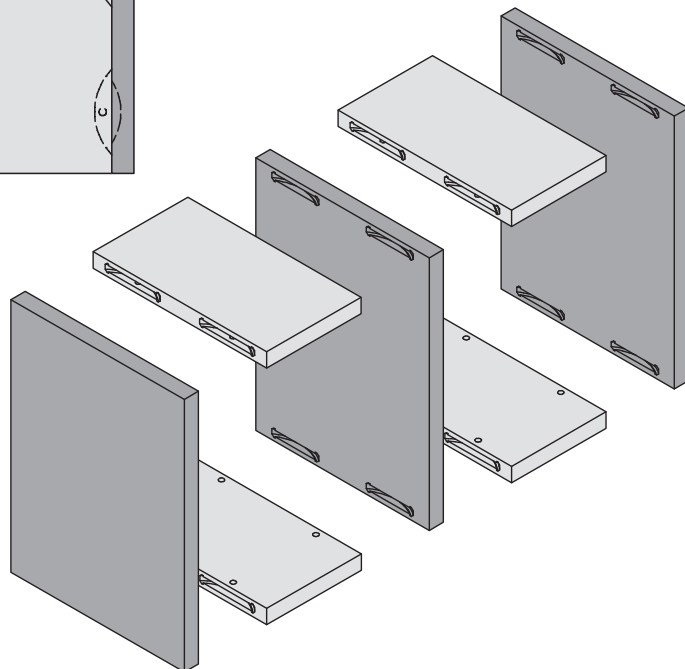
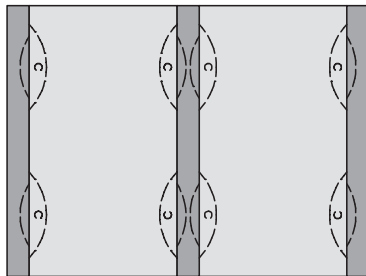
4. Assembly on site

1. Easy assembly by customer possible
 2. Assembly by sales personnel or tradesman
- Shorter assembly time on site

Ideas for standardising the machining on a CNC machine

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

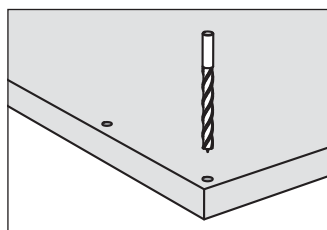
Depth 14 mm for all P-System grooves **in the edge**



	Art.No.
Clamex P-14, element with the lever	
box with 2'000 pcs	145338
Clamex P-10, element without lever	
box with 2'000 pcs	145358
Clamex P-10, element Medius	
box with 2'000 pcs	145369

Ideal combination of CNC machines and Zeta P2

Positioning drill holes on a CNC



Combining strengths: 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 for nesting machines, when the cost for an additional aggregate can't be justified or the machine cannot be upgraded anymore.

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 pin Zeta P2	Art.No.
Ø 5 mm	251048
Ø 8 mm	251066

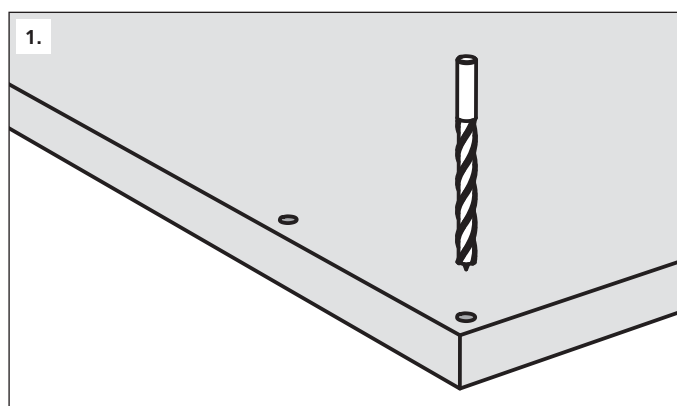
Advantages and properties

- Save time and money!
- Short setup time with a Zeta P2
- No specific angle aggregates, software or CNC tools necessary
- Precise positioning for center panels

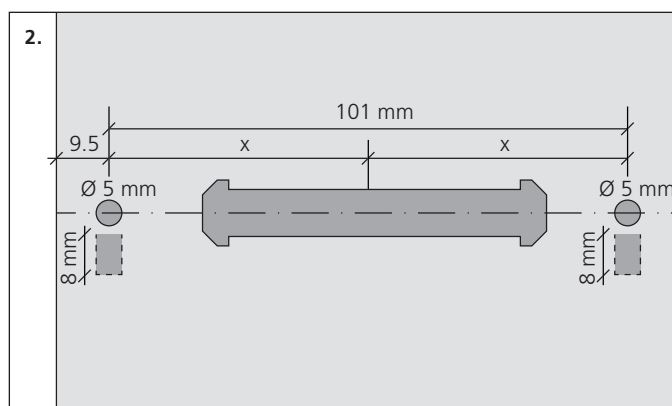


Positioning clip for Zeta P2	Art.No.
Ø 6 mm	251067
For positioning in the Clamex access hole (6 mm)	

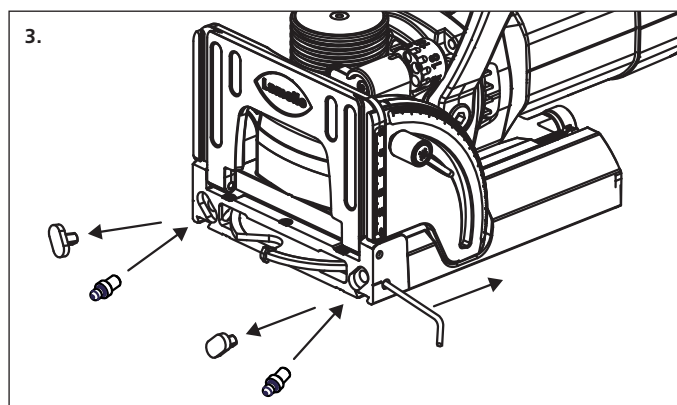
Cutting the groove in the surface



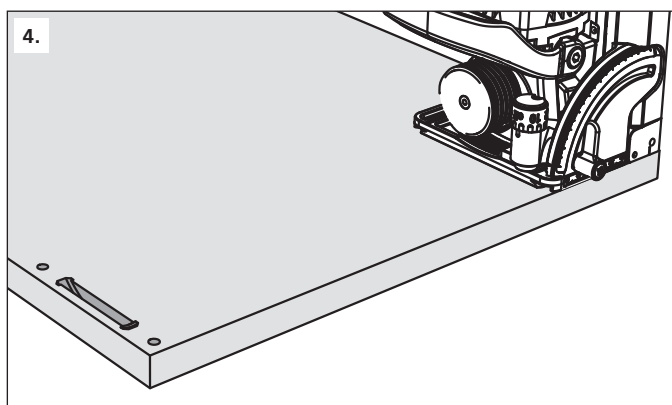
Drill the positioning holes with the CNC, $\varnothing 5 \text{ mm} / \varnothing 8 \text{ mm}$



Hole pattern of the positioning drill holes

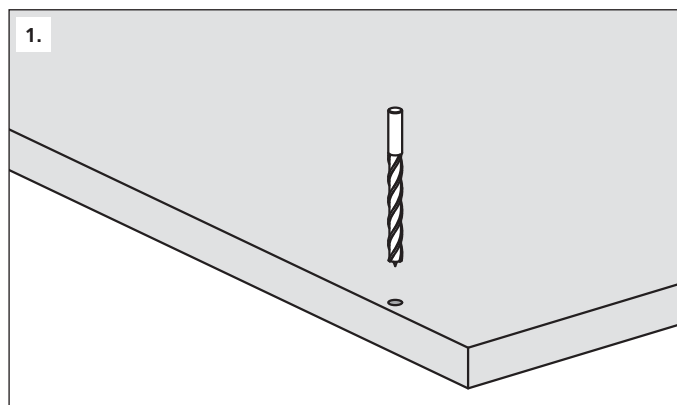


Insert the positioning pins in the Zeta P2

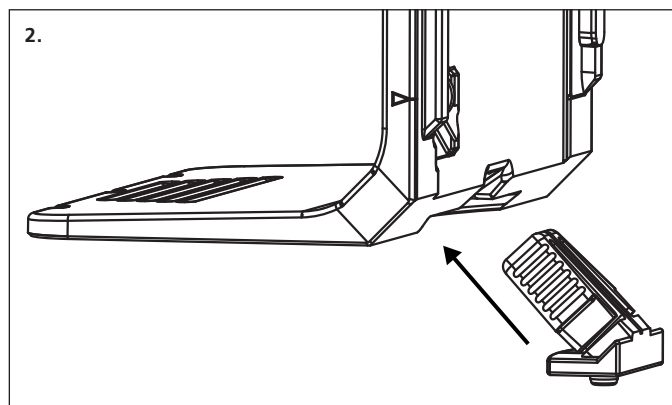


Position the machine in the drill holes

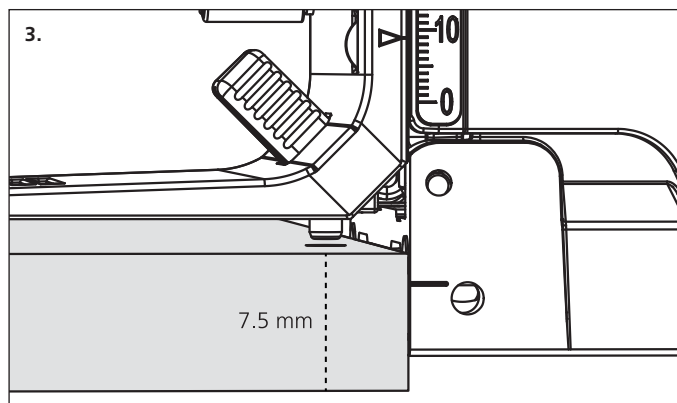
Cutting the groove in the edge



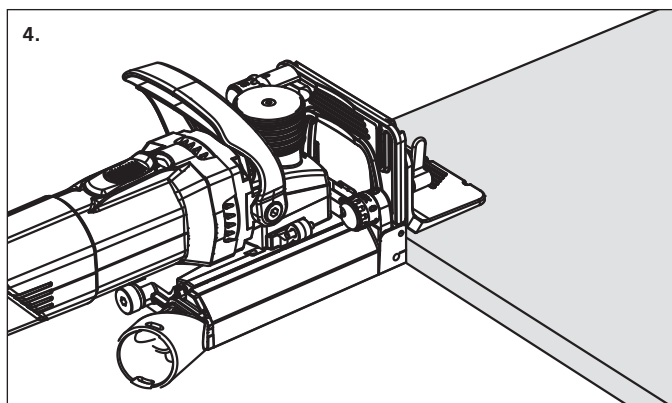
Drill the positioning hole with the CNC, $\varnothing 6 \text{ mm}$



Insert the positioning clip



Insert the positioning clip in the drill hole $\varnothing 6 \text{ mm}$



Cut the groove with the positioned machine

Lamello-System

“The original biscuit – always a perfect fit! Efficient, quick and precise!”

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





Joining with the **Lamello System**



An exceptionally efficient, simple and precise joining system for panels

How it works



1. Cut grooves



2. Apply glue



3. Insert biscuits

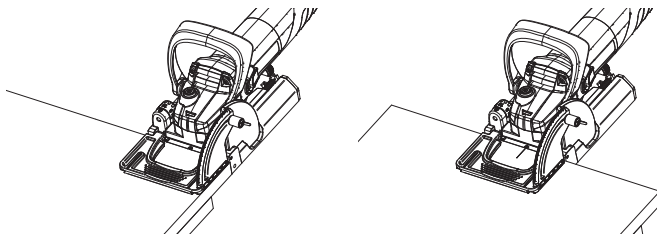


4. Clamp work piece

The precise work results of the system and the long life of the power tools pay off

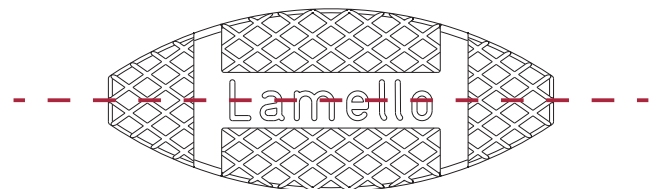
Advantages and properties

Fast – Lateral sliding tolerance



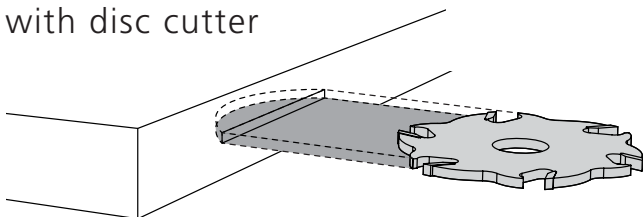
- **Easy positioning** of the machine to the pencil mark
- **No additional side stops or positioning aids necessary**
- **Great flexibility** when assembling, possibility to join panels by sliding together from different angles – not just perpendicular unlike dowels (see large picture left)

Easy – Same groove depth for both sides



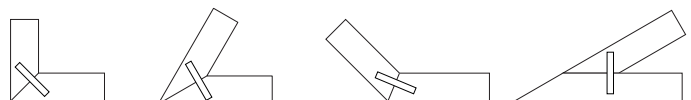
- No changing of the cutting depth means **less room for error**
- **Saves time** with every joint

Precise – Established cutting principle with disc cutter



- **Disc-shaped tools cannot bend or flex**
- **Always parallel, precise grooves** – despite wood knots or fast working
- **No tool change** for many different joining elements
- **Low maintenance cost** throughout the long life of the power tool, maintenance comprises **one cutting tool only**

Versatile – Thin flat joining element with minimal installation depth



- **Join thin work pieces** 8 or 10 mm in many various angles
- **Minimal material weakening**
- **Non-rotating, cost effective** joining elements

Versatile applications with a wide range of joining elements



Without tool change			With tool change
20	10	0	H9
E20-L	E20-H	K20	Clamex S-18
C20	C10	Simplex	

...and many more additional benefits



Cut grooves

Cut grooves for tongue and groove connections, Standard carbide-tipped groove cutter 4 mm



Wood repairs

Repairing of resin pockets and small defects, Carbide tipped cutter for Minisport patches size 2



Cut expansion gaps

Expansion gaps for wood ceilings or floors, Sliding shoe and carbide-tipped saw blade

Original Lamello biscuit joiners

These properties make the difference

Multifunctional stop square included in the kit

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



Vertical stability by attaching to the baseplate to increase the surface



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

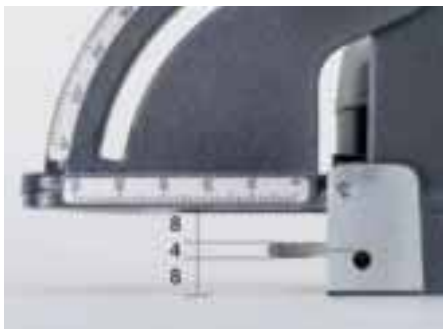


Variable positioning of the groove from the application surface 0–50 mm

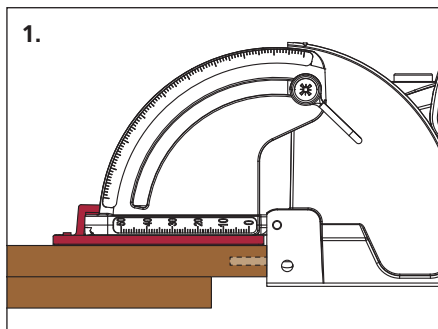
Swivelling front with fixed rotational point

Exactly the same distance from both sides to the cutter = 8 mm

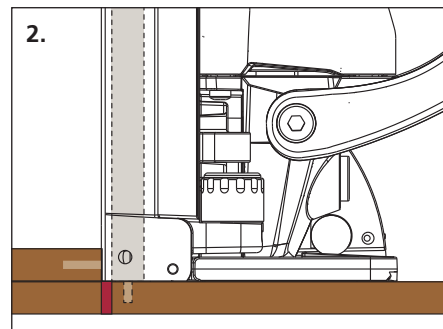
Allows alternating the application surface from the swivelling front **1.** to the baseplate **2.**, especially important when cutting thin dividing panel connections



- **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 work piece



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

Classic X

The original biscuit joiner for every workshop. Choose Lamello for precision, reliability, longevity and many other benefits



Swivelling front and base plate are flush on the sides



Central lock

Versatile applications



Joint with biscuits



Joint with Clamex S



Wood repairs



Advantages and properties

- **Powerful 780 W, ergonomic slim shape**
- **Base plate is flush on both sides for efficient positioning of the machine on the work piece**
- **High-precision machined guide and application surfaces for perfect fit of the work pieces** (see p 49)
- **Multifunctional stop square** (see p 49)
- **Versatile use**, with the possibility for 19 more applications (see p 44 – 45)
- **Swivelling front stop 0–90°** catching at 22.5°, 45°, 67.5°, 90°
- Rotating depth adjuster with **6 standard depths**

Technical data

Power	780 W
Voltage	230 V oder 120 V
Speed	10'000 min ⁻¹
Cutter	Carbide tipped cutter Ø 100 × 4 × 22
Teeth	Z6 (3+3) with reversing teeth
Cutting depth max.	20 mm
Weight	3.1 kg

Classic X

Art.No.

in systainer	101600S
in carton	101600K

Kit contains

Classic X with:	– stop square
– carbide tipped cutter	– spacer 4 mm
– suction stub 36 mm	– set of tools

Accessories can be found from page 98 onwards

Top 21

The original biscuit joiner with height adjustable blade from the inventor of biscuit joiners. Choose Lamello for precision, reliability, longevity and many additional applications



Adjust groove to middle



Off-set work pieces



Double cut for Clamex S



Unique features

1. Height adjustable cutter

SMS: Step Memory System

- Scale +/- 2 mm in steps of 0.1 mm (total 4 mm)
- Adjust groove position to exact **center of the work-piece** (material thickness 8 – 24 mm)
- Easy joining of laterally **off-set workpieces**
- Double cut 2 x 4 mm **for Lamello Clamex S**
- **Expansion gaps** (adjustable from 8 to 12 mm) adjustable in steps of 0.1 mm
- Individual positioning of the groove

2. New baseplate

- Base plate, swivelling front stop and stop square are flush on both sides – **for efficient positioning of the machine on the edge of the workpiece**
- New multifunctional stop square with smooth running, precise guidance – **for quick, exact setting of the groove position**

3. Precision cutter

with 4 scoring teeth and hub

4. Including dust bag

and adapter Ø 36 mm

Technical data

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

Top 21

Art.No.

in systainer.....	101500S
in systainer with carbide reversing blade cutter	101500SW

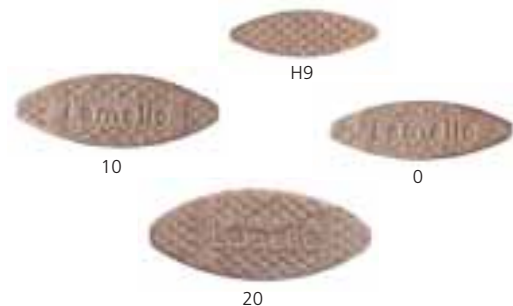
Kit contains

Top 21 with:	– spacer 4 mm
– carbide tipped cutter	– extractor stub 36 mm
– suction stub 23 mm	– dust bag
– stop square	– set of tools

Accessories can be found from page 98 onwards

The original wooden biscuit

The Original
Swiss production
Swiss timber
Lamello quality



© Logo for genuine Swiss timber
Lignum-70-0003



Advantages and properties

1. Rounded smooth edges

- Easy handling and insertion



2. Recessed & embossed glue surface

- Accurate glue distribution
- Easy insertion into groove



Diagonal fiber orientation

- Excellent breaking strength

Wood biscuits			
carton	Size	Quantity	Art.No.
Size 20.....	56 × 23 × 4 mm	1000 pieces	144020
Size 10.....	53 × 19 × 4 mm	1000 pieces	144010
Size 0.....	47 × 15 × 4 mm	1000 pieces	144000
Size H9	38 × 12 × 3 mm	1000 pieces	144009
Size 20, 10, 0.....	assorted	1000 pieces	144030
		(500, 250, 250)	
Size 20, 10, 0.....	assorted	400 pieces	144032
		(240, 80, 80)	

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

Glueing

Minicol / Servicol

The all purpose glue applicator

Advantages and properties

- For 4 mm grooves
- Nozzle facing downwards in the stand for quick use
- Bottle base prevents the glue from drying up in the nozzle
- Volumetric capacity: 300 ml
- Glue application on the sides



175500

Minicol: glue applicator with a sturdy bottle base in solid wood



175560

Servicol: glue applicator with a simple base

Dosicol

The efficient glue applicator with metering pump

Advantages and properties

- One stroke glue application
- The volume is easily adjusted by the metering ring
- Accurate dispensing, optimal for biscuit and dowel joints
- Available in 3 different models
- Volumetric capacity: 450 ml (4.5 dl)



177000

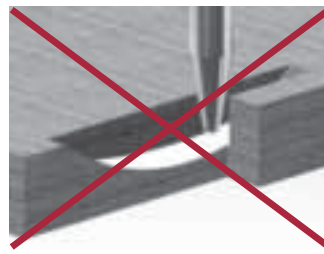
Clamping Set

Advantages and properties

- Easy clamping system for gluing case work, drawers, frames, wall and floor panels
- Even pressure distribution guarantees correct angle of workpiece



175020



Glue application on the sides

Glue applicator Minicol

Art.No.

Minicol Mod. KSwith plastic nozzle..... **175500**

Minicol Mod. Mwith metal nozzle..... **175550**

Glue applicator Servicol

Art.No.

Servicol Mod. KSwith plastic nozzle..... **175560**

Servicol Mod. Mwith metal nozzle..... **175570**

Servicol Mod. Xwith pointed nozzle **175580**



Nozzles for Minicol and Servicol

Art.No.

plastic nozzle **335511**

metal nozzle **285512**

pointed nozzle **335522**

metal nozzlefor biscuits size H9 **285509**

Glue applicator Dosicol

Size

Art.No.

Mod. 20, for Lamello grooves..... 20 and 10 **177000**

Mod. D, for dowel holes..... Ø 8, 10, 12 mm..... **177007**

Nozzles for Dosicol

Size

Art.No.

for Lamello grooves..... 20 and 10 **287020**

for Minispot recesses..... 2 and 22 **287022**

4 **287024**

for dowel holes..... Ø 8, 10, 12 mm..... **287027**

Accessories can be found from page 99 onwards

Clamping Set

Art.No.

20 cm1 piece of clamps..... **175021**

8 m belt

4 pieces profile sections 20 cm

60 cm2 pieces of clamps..... **175020**

2 pieces 8 m belt

4 pieces profile sections 60 cm

2 pieces tension hooks

Parts

Quantity

Art.No.

Clamps.....2 pieces.....5 m clamping belt **175005**

8 m clamping belt **175008**

Buckle for clamps 1 piecewithout belt..... **175060**

Polyester belt for clamps 1 Rolle.....of 50 m **175050**

Per meterm¹ **335000**

Tension hooks 2 pieces..... **175200**

Profile sections 4 pieceslength 12 cm **175401**

length 40 cm **175402**

length 60 cm **175403**

Clamex S connector

For aesthetic constructions. Demountable, flexible and easy. Installation in an 8 mm groove with screws



Flexible



Stackable



Aesthetic



Detachable



Advantages and properties

- Detachable connections
- Aligns and connects, 2 functions in one
- Aesthetic joint due to the small hole for opening and closing
- Safe from twisting due to the aligning studs
- Flexible mitres in all angles
- Stackable, since no parts protrude from the surface, so ideal for flat packing
- Easy installation with any Lamello biscuit joiner

Applications of Clamex S

- Detachable furniture joints
- Surface, corner and dividing wall connections
- All angles
- Frame connections
- Dividing walls
- Glue aid

Technical data

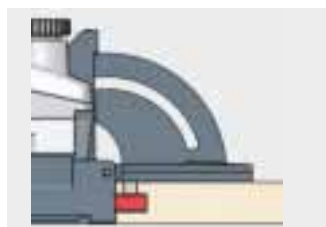
Size.....	66 × 29 × 8 mm
Cutter.....	Ø 100 × 8 × 22
Material of connector.....	fibreglass reinforced plastic
Material of lever.....	zinc die cast
Installation tolerance	longitudinal ± 1.0 mm (max. ± 1.25 mm)

Clamex S-18	Art.No.
18 pairs	145231
80 pairs	145236
300 pairs	145241
1000 pairs	145251

Accessories can be found from page 98 onwards

How it works

Clamex S installation with cutter Ø 100 × 8 × 22 mm (Art.No.132108)



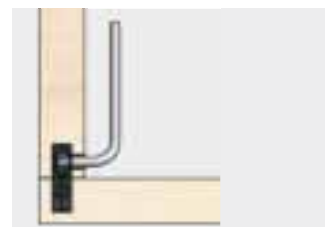
1. Cut groove, 8 mm



2. Drill hole 6 mm



3. Screw in the Clamex S



4. Connect, finished!

E20

The self-clamping element



E20-H



E20-L

Inserting E20-L



Advantages and properties

- **Connects and clamps** with one strike. The curved ridges clamp the connection together during insertion.
- Cut groove in both work pieces **simultaneously**
- **No clamps** – no waiting time
- Easy joining with a Lamello biscuit joiner

Applications of E20

- Door frames
- Furniture plinths
- Elongating of panels and profiles
- Ideal on site

Inserting E20-H



Inserting E20-L



Technical data

Size E20-L	56 × 11.5 × 4 mm
Size E20-H	23 × 28 × 4 mm
Cutter	Ø 100 × 4 × 22
Material	Fibreglass reinforced plastic

E20	Quantity	Art.No.
E20-H	80 pieces	145021
	400 pieces	145026
	1200 pieces	145028
E20-L	80 pieces	145022
	400 pieces	145025
	1200 pieces	145027
E20-L / E20-H	40 pieces per type	145020

How it works

E20-H



1. Cut groove



2. Apply glue



3. Insert E20-H



4. Finished!

E20-L



1. Cut groove



2. Apply glue



3. Insert E20-L



4. Finished!



K20

Clamping element

Advantages and properties

Clamping aid for work pieces which are difficult to clamp, e.g. screens, crown moulding etc.

Use in combination with wooden Lamello biscuits.

Made of plastic, barbed cross ribs for grip.

Cutter	Size (mm)	Quantity	Art.No.
Ø 100 × 4 × 22	60 × 24 × 4.5	80 pieces	145001
		250 pieces	145000



C20 / C10

Solid surface element

Advantages and properties

For joining solid surface materials such as Corian®, Varicor® etc. Made of translucent plastic

Cutter	Size (mm)	Quantity	Art.No.
C20Ø 100 × 4 × 22	60 × 23 × 4	250 pieces	145010
C10Ø 100 × 4 × 22	53 × 19 × 4	300 pieces	145012



Simplex

Detachable slide-in connector

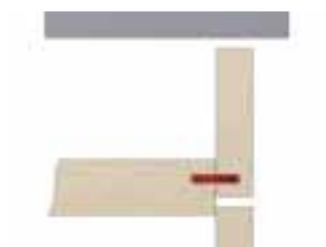
Advantages and properties

Detachable, two part connector for ceiling panels, screens, shelves and general casegoods.

Install with insertion tool and two-part epoxy adhesive.

Made of aluminum

Cutter	Size (mm)	Quantity	Art.No.
Ø 100 × 4 × 22	54 × 23 × 4.1	50 pair	166101
		100 pair	166100
Inserting tool for Simplex (For accurate positioning of Simplex)			166110



Lamello-System

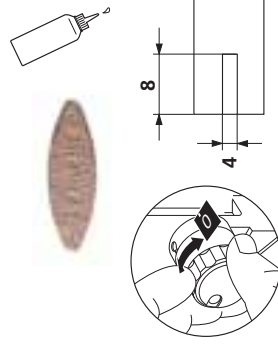
www.lamello.com



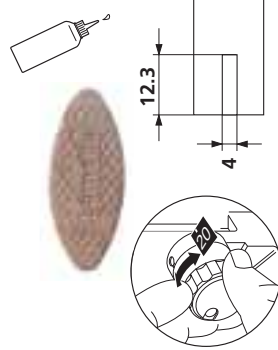
Carbide tipped groove cutter Art.No.
Ø 100 x 4 x 22 mm
for Zeta, Top, Classic
for Classic

132000
132106

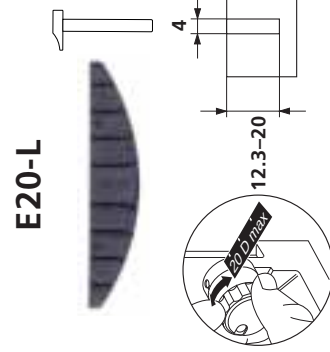
original wooden biscuit



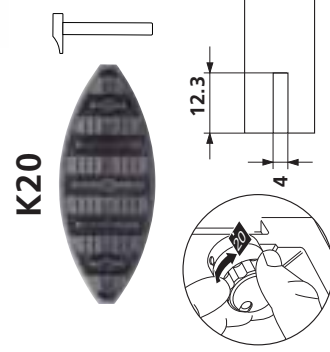
0	Art.No.
1000 pieces	144000
Size	47 x 15 x 4 mm



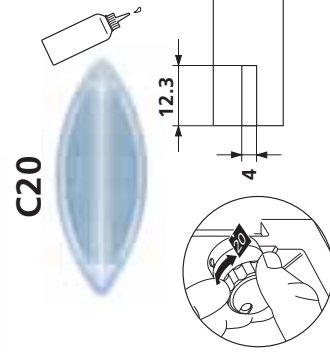
20	Art.No.
1000 pieces	144020
Size	56 x 23 x 4 mm



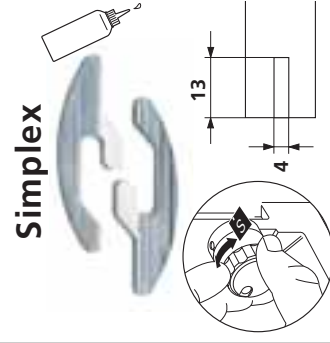
Self-clamping element	Art.No.
Size	56 x 11.5 x 4 mm
80 pieces	145022
400 pieces	145025
1200 pieces	145027



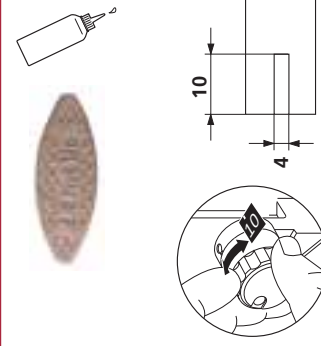
Clamping element	Art.No.
Size	60 x 24 x 4.5 mm
80 pieces	145001
250 pieces	145000



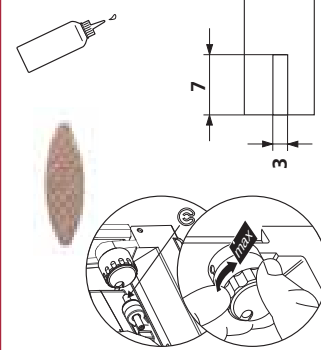
Biscuit for solid surface	Art.No.
Size	60 x 23 x 4 mm
250 pieces	145010



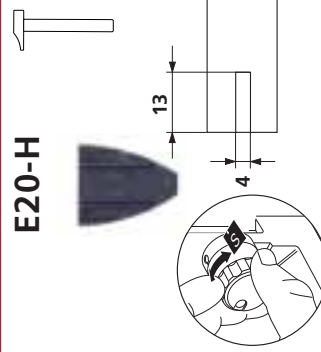
Detachable slide-in connector	Art.No.
Size	54 x 23 x 4 mm
50 pairs	166101
100 pairs	166100



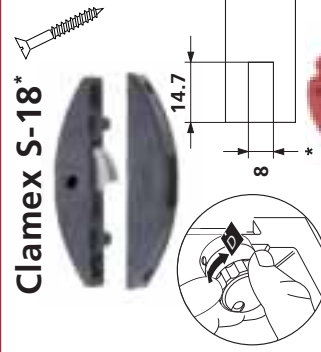
10	Art.No.
1000 pieces	144010
Size	53 x 19 x 4 mm



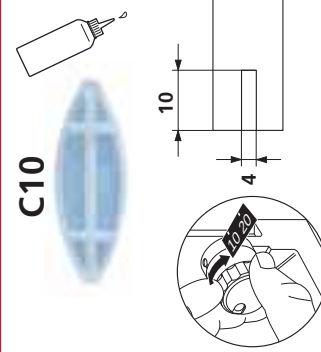
H9**	Art.No.
1000 pieces	144009
Size	38 x 12 x 3 mm
**Carbide tipped groove cutter Ø 78 x 3 x 22 mm, Art.No. 132009	



Self-clamping element	Art.No.
Size	23 x 28 x 4 mm
80 pieces	145021
400 pieces	145026
1200 pieces	145028



Connector with screw insertion	Art.No.
Size	66 x 29 x 8 mm
* Cutter with reversible blades: Ø 100 x 8 x 22 mm, Art.No. 132108	
18 pairs	145231
80 pairs	145236
300 pairs	145241
1000 pairs	145251



Biscuit for solid surface	Art.No.
Size	53 x 19 x 4 mm
300 pieces	145012





Invis Mx2

“I am delighted with the ingenious connection: stability and aesthetics for the highest requirements!”

Marcel Eggimann, owner of Eggimann Holzfertigung in Ramsei, Switzerland.

Joining with the **Invis Mx2 System**



Magnet-driven connections with an even higher clamping force!

Invisible as if glued, versatile as if screwed!



60% higher clamping force
250 kg clamping force per connector
Even more applications

Powerful mechanical connections

Detachable within seconds

Completely invisible

No openings | no protective caps | no filler | **a perfect look!**



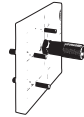
The MiniMag Mx2 drive opens or closes the connection
The speed of the cordless drill must be 1200 – 1500 rpm

Invis Mx2

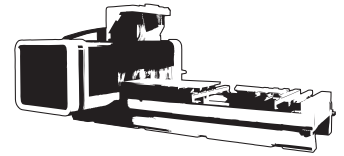
The unique invisible connection for highest demands on aesthetics, stability and productivity



Drill the hole for the Invis Mx2 connector with ...



... the Rasto drill jig or a CNC machine



Fast and easy installation

Save time!



1.

1. Screw the connector into the pre-drilled hole



2.

2. Screw in the stud vertically using the insertion jig



3.

3. Join and clamp the connection using MiniMag Mx2



4.

4. If desired, open the connection by reversing the rotation of the cordless drill



Invis Mx2 Starter Kit



MiniMag Mx2 Kit

Kits

Art.No.

Invis Mx2 Starter Kit (in systainer) **6100300**

- MiniMag Mx2
- 20 Invis Mx2 connector sets with 14 mm stud
- Rasto drill jig with 12 mm drill bit, depth adjuster, bushing
- Screw bit
- Flexible shaft
- Insertion jig

MiniMag Mx2 Kit (in cardboard box) **6100301**

MiniMag Mx2, screw bit



Invis Mx2 connector set with 14 mm stud



Invis Mx2 connector set with 30 mm stud



14 mm stud



35 mm Invis Mx2 connector



30 mm stud



Centre-wall stud for a wall thickness of 10 – 30 mm

Invis Mx2 connector set	Quantity	Art.No.
with 14 mm stud	20 pieces	6012300
with 30 mm stud	20 pieces	6012301

35 mm Invis Mx2 connector	20 pieces	6012317
14 mm stud	20 pieces	6012312
30 mm stud	20 pieces	6012309
Centre-wall stud for 10 – 30 mm thickness ..	10 pieces ..	6012208
Screw bit	1 piece	6112205
Flexible shaft for MiniMagMx2	1 piece	6100204
Invis Mx2 insertion jig for studs 14mm	1 piece	6112333

Clamp

1. Clamp **high-gloss painted furniture** without causing damage | 2. Easily connect and clamp **moulded parts**
3. Prepare **stairs and handrails** in the workshop and connect them quickly on-site



Invisible

4. Install **wall elements** without any visible fasteners | 5. Connect and plaster **substructures** without needing to fill holes
6. Join **separation walls** without screw clamps



Detachable

7. Deliver **large furniture items** in parts and assemble them on-site in next to no time | 8. Join **table legs** without visible fasteners and unscrew them again if necessary
9. Quickly assemble and dismantle **trade fair stands**



Rasto

The drill jig allows for precise drilling without measuring or marking into any workpiece shape. It is ideal for Invis Mx and many other applications



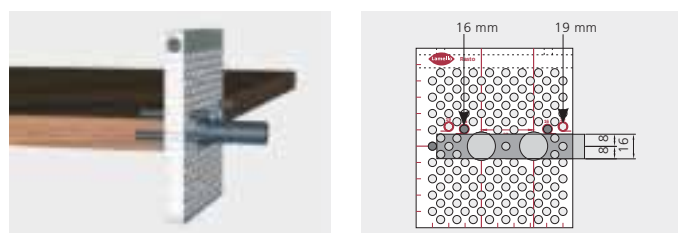
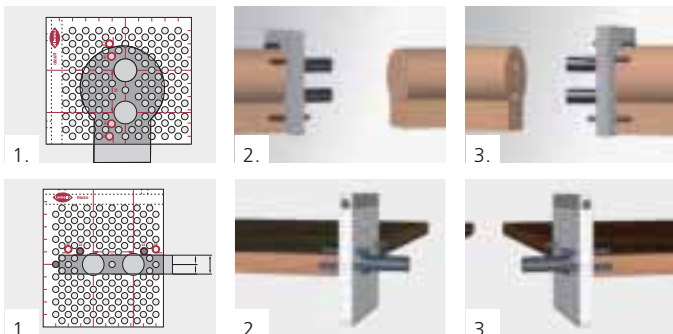
How Rasto works

Drill precise and efficient holes without measuring or marking into any shape!

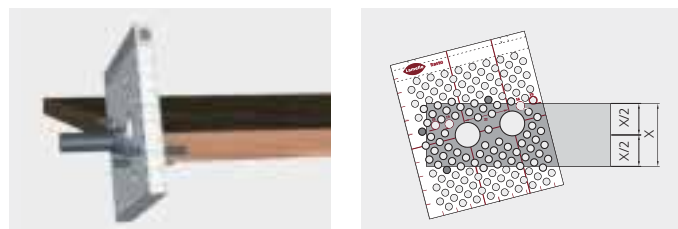
The Rasto concept uses positioning pins as stops instead of measuring the hole position. The holes always align perfectly because the position of the pins is not changed when drilling the second workpiece. The transparency allows for easy set up on the work piece or aligning to a pencil mark. Due to its approximately 180 positioning holes Rasto can be used for nearly any shape, thickness or size.

Advantages and properties

- Fast and precise holes
- Drill holes into all workpiece shapes
- Drill without measuring or marking
- Handles and 32 mm hole rows
- Ideal for exact drilling of holes for Invis Mx elements and studs



Holes in the centre of 16 and 19 mm panels

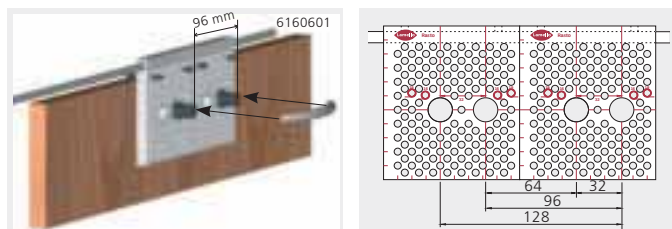


Holes in the centre of any workpiece thickness

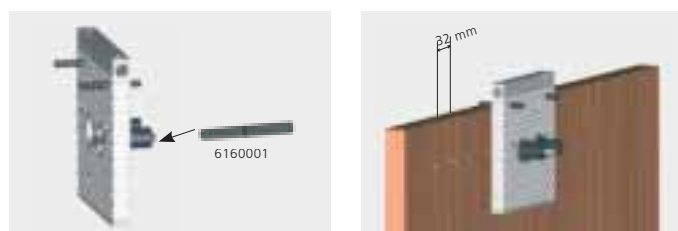


Mitre connections

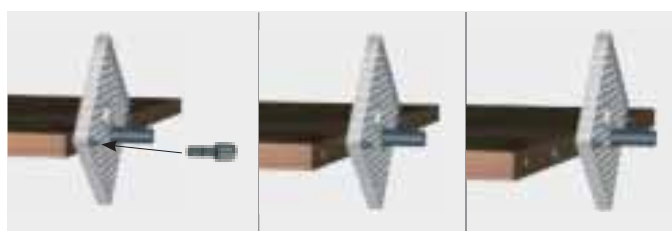
Dividing wall connections



Furniture handle holes and 32 mm hole rows



32 mm hole rows by referencing from the last hole



8 mm or 12 mm hole rows by referencing from the last hole

Tables



1. Position the pins and drill the table leg

2. Screw in the connectors

3. Drill the table top using the same pin position

4. Screw in the studs

5. Connect using MiniMag Mx2

Handrails



1. Position the pins and drill the handrail

2. Screw in the connectors

3. Drill the opposite side using the same pin position

4. Screw in the studs

5. Connect using MiniMag Mx2



Basic



Mono



Duo

Applications of Rasto

- Kitchen bench tops
- Hand rails
- Corner connections
- All shapes and profiles
- Mitre connections
- Furniture
- Stairs
- Dividing wall connections
- Surface connections

Rasto Art.No.

Basic Kit 126005

In a cardboard box: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 positioning bolts, 1 fastening screw

Mono Kit 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

Duo Kit 126002

In a systainer: 2 transparent perforated plates, 8 drill bushings 2 x 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

Accessories Art.No.

Perforated plate for Rasto drill jig **6160000**

Bolt Ø 5 x 40 for Rasto drill jig **6160001**

Drill bush for Rasto drill jig:

Ø 5 mm **6100065**

Ø 6 mm **6100056**

Ø 8 mm **6100057**

Ø 10 mm **6100067**

Ø 12 mm **6100058**

Depth adjuster for drill bit for Rasto drill jig:

Ø 5 mm **6100059**

Ø 6 mm **6100063**

Ø 8 mm **6100060**

Ø 10 mm **6100064**

Ø 12 mm **6100061**

Art.No.

Wood drill bit with centring tip for Rasto drill jig:

Ø 5 mm **6100160**

Ø 6 mm **6106161**

Ø 8 mm **6108060**

Ø 10 mm **6110162**

Ø 12 mm **6112060**

500 mm connection rod, two-part **6160601**

Fastening screw with rubber pads **6560450**

Invis Mx2 spacer for Rasto **6112331**

Invis Mx2 insertion bush for studs 14 mm **6112330**

Joining with the **Glueing System**



An ingenious glueing system for strong joining: economical, ready to use, modularly expandible

How it works



1. Equipment ready



2. Attach required nozzle



3. Apply glue



4. Clean nozzle

Advantages and properties

Dosage



"Simply apply the desired amount"
Optimise glue application: precisely set the ideal quantity.



Exact



"Exactly where I want it"
Improve quality: precisely apply in the correct position, optimise joint strength



Efficient



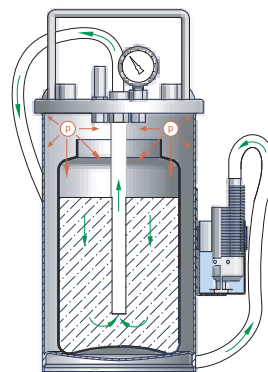
"As fast as possible"
Save time: apply efficiently with the correct nozzle, minimise cleaning requirement



Glue applicators

LK 3, LK 5, LK 10

Glue applicator for water soluble glues



Nozzles for grooves



Nozzles for surfaces



Pointed nozzle



Nozzles for edges



Kit

Advantages and features of the glue applicators

- **Stainless steel pressure tank** guarantees a long service life
- **Minimal cleaning required** due to the user-friendly design (only the pistol's ends and nozzles)
- **One single pressurisation** suffices to expel the entire 10, 5 or 3 kg capacity (even after an extended time period)
- **Complete and ready to use** with standard equipment
- **Modularly expandable**

Advantages and features of the glue pistols

- Glue quantity steplessly dosable
- Drip free and easy to clean
- Bayonet coupling for speedy nozzle changing
- Easy to service

Suitable adhesive

Adhesive type	Physically bonding water-based adhesive, e.g PVA glue (polyvinyl acetate PVAc)
Viscosity.....	6'000 – 16'000 mPas
Unsuitable adhesives	Reactive adhesives (PU or PUR, superglue, two-component adhesives, etc.), solvent-based adhesives (epoxy resin, contact adhesives, etc.)

Technical data

Size.....	LK 3	Ø 210 × 220 mm
	LK 5	Ø 210 × 340 mm
	LK 10	Ø 285 × 410 mm
Capacity	LK 3	3 kg
	LK 5	5 kg
	LK 10	10 kg
Operating pressure.....	1–5 bar	



LK 3 502003



LK 5 502005



LK 10 502010



LK 0 512200



LK 100 512210

Glue applicators

LK 3	Art.No.
Glue applicators incl. hose, glue pistols and pointed nozzle.....	502003

LK 5	Art.No.
Glue applicators incl. hose, glue pistols and pointed nozzle.....	502005

LK 10	Art.No.
Glue applicators incl. hose, glue pistols and pointed nozzle.....	502010
incl. connection option for a second hose	

Glue pistols

Typ	Application	Art.No.
LK 0	for manual operation	512200

Typ	Application	Art.No.
LK 100	for pneumatic external operation	512210

Kit contains

Stainless steel pressure tank with:
inner plastic glue container, water container for glue pistol, hose Ø 10 mm, length 4 m, glue pistol LK 0, pointed nozzle, pump hose, manual

Accessories can be found from page 99 onwards



LK 100 pneumatic



LK 0 manual

Glue nozzles

Lamello glue nozzles are anodised, coating them with a hard surface, 3/100 mm thick



Advantages and properties

- **Resistance to wear**
- **Smooth gliding surface**
- Surfaces **easy to clean**
- Speedy nozzle changes are made possible with the Bayonet coupling

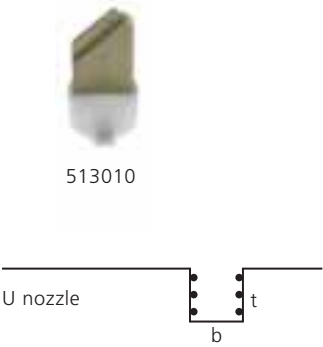
for edges



	Size	Art.No.
Brush	40 mm	512404
	60 mm	512406
Adjustable nozzle	10 – 22 mm	512422
	23 – 42 mm	512442
	40 – 62 mm	512462
Adjustable edge roller	10 – 46 mm	512446
Pointed nozzle		512451
Round nozzle	5/4 × 30 mm	512454
Adjustable guide	0 – 25 mm for pointed / round nozzle	512425



for grooves



	Size w × d	Art.No.
U nozzle glue outlets in the groove	4 × 5 mm	513010
	4 × 8 mm	513011



for surfaces

	Size	Art.No.
Surface roller	180 mm with rubber roller	512602
Replacement roller	width 180 mm	552610
Gluing brush	50 x 35 mm	512605
Surface nozzle	70 mm	512607
	120 mm	512612
	180 mm	512618

for joints



	Size	Art.No.
Dowel nozzle	Ø 6 x 20 mm	512801
	Ø 8 x 25 mm	512802
	Ø 8 x 32 mm	512803
	Ø 3/8" x 30 mm	512804
	Ø 10 x 30 mm	512805
	Ø 12 x 40 mm	512806
	Ø 14 x 40 mm	512807
	Ø 15 x 45 mm	512808
	Ø 16 x 45 mm	512809
Dowel nozzle, double	Ø * mm, A = 32 mm	512822
Lamello nozzle	Size 0–20	512846
Tongue nozzle	70 x 30 x 4 mm (plastics)	512854
	without glue exit holes for individual positioning of the glue holes	
Universal tongue	30 x 100 x 4.5 mm	512870
	50 x 110 x 4.5 mm	512871
Roller nozzle	25 mm Ø 7 mm	512879
	50 mm Ø 7 mm	512875
	50 mm heavy duty Ø 7 mm	512876
	75 mm Ø 9 mm	512877
Replacement roll	50 mm Ø 7 mm	552820
	75 mm Ø 9 mm	552827
	25 mm Ø 7 mm	552831

* according to your requirements



Repairing with the **Minispot System**



For the repair of wood defects and damaged areas such as resin pockets, small knots or damaged edges

How it works



1. Cut the defect



2. Apply the glue



3. Insert the Minispot patch



4. Plane the surface

Advantages and properties

System solution



“Where all parts match”

- All necessary components such as machines, templates, cutters and patches are made to fit ideally

Efficient and professional



“Field-proven and suited for the industry”

- Easy and fast positioning due to the markings and the see-through cover on templates and machines
- Efficient tools and standard attachment for dust extraction

Easy and complete



“The ideal solution for every situation”

- Diverse patch sizes for damaged areas available, single patches and patch rods from 85–500 mm
- Suitable system solutions for repairs of surfaces or edges

Fast



“Fast completion of the repair”

- Optimal hold of the patches due to the fine interlocking in the wood surface
- No long waiting time after glueing

Invisible



“Quality which pays off”

- Fine interlocking makes the patch invisible
- Patch takes on the same colour as the surrounding wood or can be stained, oiled or laquered accordingly

G20 S2

The Minispot grooving machine to cut grooves for patches sizes 2, 4, 22, 20



Cutting defects



See-through cover



Stop square



Milling jig for Minispot patching rods

Advantages and properties

- **Precision guidance with finished surface**
- **Easy positioning** due to see-through cover
- No slipping while cutting due to anti-slide coating and fixation spikes
- **Controlled plunge** due to ergonomic push-down lever
- Suction stub for dust extraction

Technical data

Power	1'000 W
Voltage	230 V
Speed	10'000 min ⁻¹
Max. groove depth	20 mm
Weight	4.4 kg

Minispot G20 S2

Art.No.

in carton	111750
-----------------	---------------

Kit contains

Machine (without cutter) with:
set of tools, manual

Accessories

Art.No.

Stop square for edge patches **121755**
für G20 S2

To cut Minispot-grooves on edges
for all models since 2005

Milling jig for Minispot patching rods **121702**

85 / 250 / 500 mm

for G20 / G20 S2 / G2A

Accessories can be found from page 100 onwards



G2A

The Minispot grooving machine to cut grooves for patche size 2



Anti-slide coating



Repair in the groove



See-through cover



Sliding back cover

Advantages and properties

- **Precision guidance with finished surface**
- **Easy positioning** due to see-through cover
- No slipping while cutting due to anti-slide coating
- **Sliding back cover** for closer cuts in the groove
- Suction stub for dust extraction

Technical data

Power	780 W
Version	230 V
Speed	10'000 min ⁻¹
Cutter	Carbide tipped Minispot cutter size 2
Max. groove depth.....	8 mm
Weight.....	3.1 kg

Minispot G2A

Art.No.

in carton	111702
-----------------	---------------

Kit contains

Machine with:
carbide cutter, set of tools, manual

Accessories

Art.No.

Milling jig for Minispot patching rods	121702
85 / 250 / 500 mm	
for G20 / G20 S2 / G2A	

Accessories can be found from page 100 onwards



Patchmaker 2

The patch-making machine for the manufacture of individual size 2 patches, using your own wood scraps 72 × 25 × 10 mm



Advantages and properties

- The patch is made from the same wood piece as the workpiece
- Using your own wood offers a perfect match between workpiece and patch
- The patch is available immediately



Step 1:

Wood piece 72 × 25 × 10 mm



Step 2:

Cut profile



Step 3:

Cut profile



Step 4:

Cut off the wood patch

Technical data

Power	250 W / 500 W
Voltage	230 V or 120 V
Speed	18'000 min ⁻¹ / 25'000 min ⁻¹
Tools	Carbide tipped profile cutter 2 teeth Carbide tipped saw blade 100 × 2.4 × 22 mm
Weight.....	9.3 kg

Patchmaker 2

Art.No.

in carton **111600**

Kit contains

Machine with:
carbide tipped form cutter / saw blade, suction hose with adapter piece, set of tools, manual

Accessories can be found from page 100 onwards

Plano 45 S2

The flush milling machine to flush-mill projecting wood pieces such as resin-pocket patches, patching rods, knots, crossbar patches



Tear-free cut



Adjustable milling height



Stainless steel base insert



Planing protruding patch

Advantages and properties

- **Unique helical milling geometry** produces a shearing cut which **guarantees tear-free work**
- **Low cutting pressure**, no chipping at the end of the piece
- **Perfect cut even on crossgrained wood**
- Set milling height easily in steps of 0.035 mm, +/- 0.7 mm
- Ergonomically improved and repositioned switches and handles
- **Cost-effective** tool due to long life
- Stainless steel base inserts for minimal wear
- Suction stub for dust extraction

Technical data

Power	1'000 W
Voltage	230 V or 120 V
Speed	10'000 min ⁻¹
Tool	Cutter head with 3 carbide reversing blades 45 × 12 × 1.5 mm
Cutting width	45 mm
Cutting height	3 mm
Weight.....	4.1 kg

Plano 45 S2

Art.No.

in carton **111851**

Kit contains

Machine with:
set of tools, manual

Accessories can be found from page 102 onwards

Patches

Patches

To patch wood defects and damaged areas



Profile	Size	Width mm	Height mm	Length mm	Quantity per box
	2	8	13	69	500
	20	20	11	65	160
	20 K	20	17	81	55
	22	15	13	69	200
	4	15	20	81	200

Sizes/wood types not listed here are available on request

Other wood species are:

Alder
Birch
Brazil mahogany
Carolina pine
Cherry
Chestnut
Elm
Framiré
Hemlock
Iroko
Larch nat.
Lime
Mahogany
Maple
Merbau
Obeche
Pear
Ponderosa pine
Poplar
Ramin
Red alder
Red Cedar
Red oak
Sapelli
Sipo
Stone pine
Teak
White oak

Wood species	Size 2 100 pieces Art.No.	Size 2 500 pieces Art.No.	Size 4 200 pieces Art.No.	Size 20 160 pieces Art.No.
Spruce-fir ¹	15 0002 K100	15 0002*	15 0004	15 0020*
Spruce nat. ²	15 0102 K100	15 0102*		15 0120
Nordic spruce ³	15 0202 K100	15 0202*		15 0220*
Spruce, not glued	15 0002U K100	15 0002U		15 0020U
Pine ¹	15 0302 K100	15 0302*		15 0320
Nordic pine ³	15 0402 K100	15 0402*	15 0404	15 0420*
Beech nat.	15 0702 K100	15 0702*		15 0720
Larch	15 0802 K100	15 0802*		15 0820*
Silver fir	15 1102 K100	15 1102*		15 1120
Beech	15 1602 K100	15 1602*		15 1620
Larch Siberian	15 5202 K100	15 5202*		15 5220
Douglas fir / Oregon Pine	15 2902 K100	15 2902		15 2920
Oak	15 3002 K100*	15 3002*		15 3020
Meranti	15 3202 K100	15 3202*		15 3220
Walnut	15 3502 K100	15 3502		

Jumbo Box	1500 pieces	500 pieces
Spruce-fir	15 0002J*	15 0020J
Larch	15 0802J	15 0820J
Pine	15 0302J	15 0320J

Industrial package	7000 pieces	200 pieces	2500 pieces
Spruce-fir	15 0002I*	15 0004I	15 0020I
Spruce nat. ²	15 0102I		
Nordic spruce ³	15 0202I		15 0220I
Pine ³	15 0302I		15 0320I

Edge patches	Size 20K 55 pieces	850 pieces
Spruce-fir	15 0023	15 0023I
Larch siberian	15 5223	15 5223I

* on stock / All other products in various sizes are available on request

Delivery for cartons of 100 pcs approx. 1–2 weeks / all other cartons approx. 2–5 weeks

Articles not in stock cannot be returned.



Patches

Multibox	Quantity	Size	Art.No.
with Minispot patches assorted	12 × 50 pieces	2	156580
beech, oak, ash, spruce-fir, pine, hemlock, cherry, larch, mahogany, walnut, sapelli, silver fir			

Patching rods



Wood species	Size	Length			Quantity	Art.No.
		85 mm	250 mm	500 mm		
Spruce-fir	2	85 mm			500	15 0002L08
				250 mm	100	15 0002L25
				500 mm	100	15 0002L50
Spruce-fir	22				50	15 0022L25
				250 mm	50	15 0022L50
				500 mm	50	15 0022L50
Spruce-fir	20	85 mm			220	15 0020L08
				250 mm	45	15 0020L25
				500 mm	45	15 0020L50
Pine	2				100	15 0302L25
				250 mm	100	15 0302L50
				500 mm	100	15 0302L50
Larch, Siberian	20	85 mm			220	15 5220L08
				250 mm	45	15 5220L25
				500 mm	45	15 5220L50

Industrial package					
Wood species	Size	Length**		Quantity	Art.No.
		250 mm	500 mm		
Spruce-fir	20	250 mm		900	15 0020IL25
			500 mm	630	15 0020IL50
Pine	20	250 mm		900	15 0320IL25
			500 mm	630	15 0320IL50
Larch	20	250 mm		900	15 0820IL25
			500 mm	630	15 0820IL50

** Nominal length = Traverse path



Knot patches and Crossbar pins

Knot patches box of 250 pieces	Ø 10 mm	Ø 15 mm	Ø 20 mm	Ø 25 mm	Ø 30 mm	Ø 35 mm
	Art.No.	Art.No.	Art.No.	Art.No.	Art.No.	Art.No.
Spruce-fir	15 7010*	15 7015*	15 7020*	15 7025*	15 7030*	15 7035*
Pine	15 7110	15 7115	15 7120	15 7125	15 7130	15 7135
Larch	15 7210	15 7215	15 7220	15 7225	15 7230	15 7235

Knot patches assorted	Art.No.					
Spruce-fir	15 7050	Pieces per package: Ø 10 mm 100 pieces, Ø 15 mm 100 pieces, Ø 20 mm 150 pieces, Ø 25 mm 100 pieces, Ø 30 mm 50 pieces				
Pine	15 7150					
Larch	15 7250					

Crossbar pin box of 1 kg	Ø 10 mm	Ø 15 mm	Ø 20 mm	Ø 25 mm	Ø 30 mm	Ø 35 mm
	Art.No.	Art.No.	Art.No.	Art.No.	Art.No.	Art.No.
Spruce-fir	15 7010Q	15 7015Q	15 7020Q	15 7025Q	15 7030Q	15 7035Q
Larch	15 7210Q	15 7215Q	15 7220Q	15 7225Q	15 7230Q	15 7235Q

* on stock / All other products in various sizes are available on request, approx. 1–3 weeks

Renovating Windows

“We can no longer imagine window removal without the Tanga Delta S2!”

Sven Hennings, Head of Assembly at rekord-fenster+türen in Dägeling, Germany



Window replacement with the **Tanga Delta**



Clean and efficient window replacement For good customer care

How it works



1. Unpack the machines



2. Cut the window out



3. Pull the window out



4. Install the new window

Advantages and properties

High working speed



Powerful 1'600 W motor with ideal weight-power ratio

Cuts into the corner



Deep cuts into the corner with the Tanga Delta S2

High quality



Clean cuts into wood, stone and tiles without damaging surrounding structures

Only one cut



Cutting depth up to 68 mm

Flat, light construction



Only 5.4 kg but 1'600 W power!

Low dust emission



Ideal air flow channeling minimises dust emissions

Safe



Smoothly running base plate is instantly retracted by the strong spring

Tanga Delta

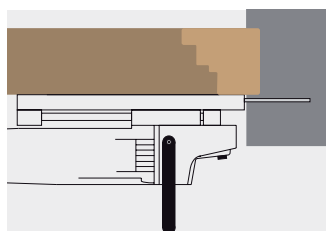
The ideal machine for window replacement.



Tanga Delta S2

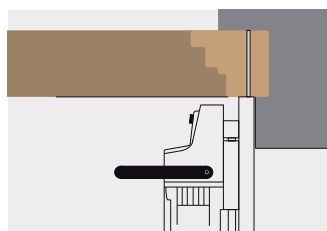
Tanga Delta H

Tanga Delta S2



Cut into the stone wall

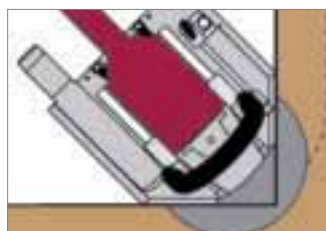
Tanga Delta H



Cut into the timber frame



Base plate for cuts into corner



45° cut into the corner



Cut-out for the weatherboard



Cut into the tiled wall



Shortening doors



Cut groove for door seal with the rabbet stop



Tanga with rabbet stop

Advantages and properties

– Effortless low friction guide for longevity despite daily use in stone and plaster

– Base plate with snap-in locker for a quick change of tools

Tanga Delta S2 – Cut into the stone wall

– Diamond blade for cutting plaster, stone and tiles

– 2 base plates for cutting straight-line and into the corner

Tanga Delta H – cut into the timber frame

– Saw blade for wood frames

– 1 base plate for cutting straight-line

Applications with Tanga Delta S2

– Clean replacement of old windows

– Cut the wall for larger windows

– Cut-outs for weatherboards

– Cuts for wall breakouts

– Dustless cuts into plasterboards

– Straight cuts into tiled walls

Technical data

Power 1'600 W
with electronic overload protection

Voltage 230 V

Speed 7'700 min⁻¹

Cutting height 6 mm (groove width)

Weight..... 5.4 kg

Tanga Delta S2

Diamond blade Ø 180 × 2.6 × 22 mm

Cutting depth adjustable 0–58 mm
(optional 0–68 mm with
200 mm saw blade)

Tanga Delta H

Carbide saw blade Ø 200 × 2.4 × 22 mm

Cutting depth adjustable 0 – 68 mm

in wooden case

Art.No.

Tanga Delta S2 with diamond blade **111553**

Tanga Delta H with saw blade for wood **111560**

Kit contains

4 m suction hose with suction stub, set of tools, safety glasses,

Tanga Delta S2: Diamond blade

Tanga Delta H: Carbide saw blade

Accessories can be found from page 101 onwards

Variocut

The expansion gap and parquet cutter for gap width 4–8 mm



Gap width 4–8 mm



Cutting gap



Expansion gaps



Additional option: Wood repair

Advantages and properties

- **For minimal gap width from 4–8 mm**
- Fast height adjustment 4–8 mm in tenths of a millimeter with the adjusting knob
- Plastic front cover for easy gliding on the ceiling or on the floor
- Can also be used for wood repairs with a Minispot cutter

Application

- Expansion gaps on ceilings
- Various cuts with and cross grain
- Expansion gaps on floor boards
- Wood repairing (with Minispot cutter Art.No. 132217)

Technical data

Power	1'050 W
Voltage	230 V
Speed	10'000 min ⁻¹
Carbide tipped cutter	Z20, Ø 100 × 2.4 × 22 mm
Gap width	4 – 8 mm (1/10 per step), or more by use of a spacer
Cutting depth	adjustable 0 – 20 mm
Weight	3.5 kg

Variocut

Art.No.

..... **111450**

Kit contains

Machine with:
saw blade, set of tools, manual

Accessories can be found from page 101 onwards

Edge processing with the **Profila**



The edge profiling machine with a stable surface for various jobs

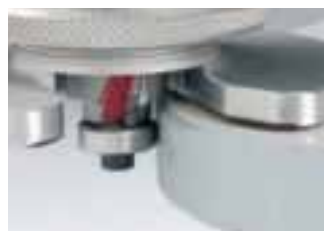
Advantages and properties

Stepless fine adjustment



Simple rotation of the nut ensures the base plate remains stable and correctly angled.

Stable working



Stability when working protruding edges is enabled by vertical positioning of the machine using the gap in the baseplate.

All shapes, any job



Whether curved inwards or outwards, if straight or rounded. Whether the top layer or the edging protrudes.

All standard cutters



No special cutters required. Use your existing cutters. The machines are shipped with collet chucks Ø 6 mm and 8 mm.

Variable tool opening



25 mm or 34 mm depending on the cutter size

Large base plate



The large base plate Ø 100 with a sliding coating on the surface allows for stable running on the work piece.

Profila

The edge profiling machine with electric or pneumatic motor for flush-milling, edge-milling and profiling of edges even on curved work pieces



Profila E plus

Profila Pro plus



Profila E plus (electric)
For every work shop,
use it anywhere



Flush trim or round edges



Profila Pro plus (pneumatic)
Light and ergonomic handling
only 1 kg



Flush trim or round edges



Dust cover



Rounding edges

Advantages and properties

- **Easy and stepless precision adjustment of the cutting depth by simply turning the base plate**
- Ideal for all standard cutters
- Small, variable tool opening for 25 and 34 mm
- Special coating on the base plate avoids leaving marks on the workpiece
- Large base plate
- High speed for a clean cut

Profila E plus, Profila Pro plus

- The opening in the base plate enables milling of **protruding edges** through application on the surface instead of the edge. This allows for stable guiding of the machine and milling of curved work pieces.
- Ideal for cutting protruding PVC edges

Profila E plus	Art.No.
Profila E plus, base plate with gap	111962K

Profila Pro plus	Art.No.
Profila Pro plus, base palte with gap	111964

Technical data

	Profila E plus	Profila Pro plus
Power	740 W	400 W
Voltage	230 V	
Speed	25'000 min ⁻¹	22'000 min ⁻¹
Base plate	Ø 100 mm with tool opening 34 mm, reducer 25 mm	
Weight.....	1.8 kg	1 kg
Air consumption	180 l/min	
Operating pressure.....	max. 6.5 bar	
Air consumption	¼" NPT	

Kit contains

Machine with:
carbide tipped cutter Z2, R 2 mm, collet chucks 6 mm and 8 mm, set of tools, manual, dust cover

Accessories can be found from page 102 onwards

Cantex Ergo

The high-precision planer for top quality flush-milling of solid wood edges



Flush-planing efficient and clean



Rounded base plate



Tear-free work in cross-grained wood



Parallel guide for finished surfaces



High-precision cutter adjustment



Advantages and properties

- **Round front on the base plate** for more manoeuvrability, ideal for planing all-sided edges on panels
- **New: Scale on the cutter** for the exact setting of the parallel guide
- Unique helical milling geometry produces a **shearing cut which guarantees tear-free work**
- Low cutting pressure, no chipping at the end of the piece
- **Perfect cut even on cross-grained wood**
- Set milling height easily in steps of 0.035 mm, +/- 0.7 mm
- Sliding spacer prevents tipping of the machine when working in the surface

Technical data

Power	1'000 W
Voltage	230 V or 120 V
Speed	10'000 min ⁻¹
Tool	Cutter head with 3 carbide reversing blades, 45 × 12 × 1.5 mm
Milling height.....	adjustable in steps 0.035 mm, ± 0.7 mm
Cutting width	45 mm
Cutting height	3 mm
Weight.....	4.3 kg

Cantex Ergo

Art.No.

in systainer..... **111857**

Kit contains

Machine with:
set of tools, manual

Accessories

Art.No.

Parallel guide stop for Cantex Ergo / S2..... 121290

For efficient flush-milling of protruding wood edges on materials with finished surfaces (melamine, veneer)
Prevents cutting into the finished surface!

Accessories can be found from page 102 onwards

Accessories / Spare Parts







125344



125345



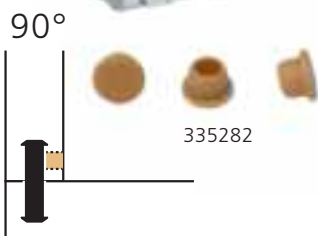
131506



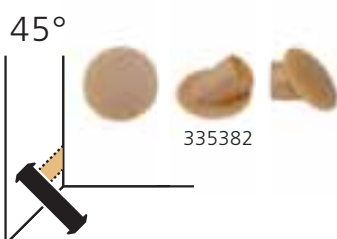
251993



271945



335282



335382

P-System drill jig		Art.No.
P-System drill jig incl drill, from 22.5°		125344
for all Clamex P fittings (P-10, P-14, P Medius 14/10)		
Angle for drill jig		255250
Quick-change biscuit joiner P-10		255251
Quick-change biscuit joiner P-14		255252

P-System drill jig long		Art.No.
Drill jig for thick work pieces 100 mm, (P-14, P Medius 14/10)		125345

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

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

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

Systainer T-Loc Size II empty		Art.No.
incl. 2 separators		331565V

Cover caps, 100 pieces			
90°	Art.No.		Art.No.
RAL 9010, White	 335280	RAL 9002, Grey-white	 335285
RAL 9011, Black	 335281	RAL 7035, Light grey	 335286
RAL 1014, Ivory	 335282	RAL 7040, Window grey	 335287
RAL 1011, Brown beige	 335283	RAL 7031, Blue grey	 335288
RAL 8007, Brown	 335284		
RAL 8017, Dark brown	 335289		

45°	Art.No.		Art.No.
RAL 9010, White	 335380	RAL 1011, Brown beige	 335383
RAL 9011, Black	 335381	RAL 8017, Dark brown	 335384
RAL 1014, Ivory	 335382	RAL 7022, Umbra grey	 335388



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

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

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



Tenso P-14 Preload tool	Art.No.
Tool to pre-load the Tenso P-14	145430



P-System groove cutter, Ø 100.4 x 7 x 22 mm	Art.No.
Z3, diamond dipped	for Zeta (P-System)..... 132140

P-System groove cutter, Ø 100.9 x 7 x 22 mm	Art.No.
Z3, carbide tipped	for Zeta (P-System)..... 132141



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



Spacer for biscuit joiner	Art.No.
5 mm, Aluminium for 18 mm panels	for Top 21 / Zeta / Classic..... 253027
2 mm, Plastic for 16 mm panels	for Top 21 / Zeta / Classic..... 253023
4 mm, Plastic for mitres.....	for Top 21 / Zeta / Classic..... 253026

Accessories / Lamello-System



132000



132106



132001



132130



132108



251057



132350



125250

Carbide tipped groove cutter, Ø 100 × 4 × 22 mm		Art.No.
Z2 + V4 scoring teeth, 4 screw holes, hub	for Zeta, Top 20, Top 21, Classic..	132000
Z6 alternating teeth, without hub, with spacer	for Classic.....	132106
Countersunk bolts, M4 × 8, Torx		352408T

Carbide tipped groove cutter, Ø 78 × 3 × 22 mm		Art.No.
Z4, 4 Screw holes, with hub for biscuit H9.....	for Zeta, Top 20, Top 21, Classic..	132009

Carbide tipped groove cutter with reversible blades, Ø 100 × 4 × 22 mm		Art.No.
Z2 + V2, 4 screw holes with hub	for Zeta, Top 20, Top 21, Classic..	132001
Z4 + V4, 4 screw holes without hub, with spacer.....	for Zeta, Top 20, Top 21, Classic..	132130
Set of 4 pieces	for Art.No. 132001.....	132111
Countersunk bolts.....	for Art.No. 132001.....	352408T
Allen key, 4 mm long	for Art.No. 132001.....	271959L
Set of 10 pieces main teeth	for Art.No. 132130.....	132134
Set of 10 pieces scoring teeth.....	for Art.No. 132130.....	132135
Replcement-Set, 4 scoring teeth + 4 main teeth	for Art.No. 132130.....	132133
screws.....	for Art.No. 132130.....	352130
Torx key	for Art.No. 132130.....	352133

Carbide tipped groove cutter with reversible blades, Ø 100 × 8 × 22 mm (Clamex S connector)		Art.No.
Z4 + V4, 4 screw holes	for Top 20, Top 21, Classic	132108
Set of 10 pieces scoring teeth	for Art.No. 132108.....	132137
Set of 10 pieces main teeth	for Art.No. 132108.....	132136
Replcement-Set, 4 scoring teeth + 4 main teeth	for Art.No. 132108.....	132114

Slide shoe, to protect the wall and the machine		Art.No.
from year of manufacture 1999.....	for Experta, Classic C2, C3.....	251057
	Top 20, S, S2, S3, S4, Top 21, Zeta	

Carbide tipped saw blades for expansion gaps, Ø 100 × 2.4 × 22 mm		Art.No.
Z20, 4 screw holes, 2 spacers	for Zeta, Top 20, Top 21, Classic..	132350

Accessories for saw blades		Art.No.
Spacer, 40 × 20 × 1mm with screw holes	for Zeta, Top 20, Top 21, Classic..	322510
Flange M8	for Zeta, Classic.....	252502

Clamex S drill jig 30° - 150°		Art.No.
Drill jig (60 mm) incl. drill for Clamex S.....		125240

Clamex S installation set		Art.No.
Drill jig for 30°-150° incl. drill and carbide tipped groove cutter.....		125250
with reversible blades 8 mm (132108)	for Lamello biscuit joiner	

Applications of saw blades for cutting expansions gap

Classic C2, C3, 3S Pa, Zeta									
Top 20, S2, S3, S4, Top 21									
	8 mm	9 mm	10 mm	11 mm	12 mm				
	-2	-1	±0	+1	+2				

Accessories / Glueing System



LK 3, LK 5, LK 10	Art.No.
LK Service carriage	533205
The mobile station for LK 10, LK 5 und LK 3:	
–adjustable suspension rod	
–Incl. service boiler with grip, cover and grid basket to submerge nozzles in water when not in use, volume 3 l (533255)	
–Dimensions 410 × 410 × 850 mm	
LK Rolling base with handle	533204
For LK 5 and LK 3:	
–On 4 wheels with pushing handle	
–Complete with water container and hook for suspension of hose	
–Dimensions 254 × 254 × 820 mm	
LK Rolling base	533201
Allows pulling behind by hose of LK 5 and LK 3:	
–Lowered platform for stability of the glue applicator	
–Dimensions 254 × 254 mm	

	Art.No.
Connector..... 3/4" for water tap	533250
US for water tap	533251
Cleaning brush..... Ø 40 × 100 mm..... length 340 mm	533252
round Ø 6 mm..... length 340 mm	533253
Service container..... Volume 3 litres with mesh basket for 533205	533255
Water reservoir complete	533260
Inside dimensions Ø 60 × 90 mm	533261
Inside dimensions 134 × 60 × 60 mm	533261
Distributor	533238
for 2–3 additional hoses	533238
Connector	533230
with external thread	533230
M8	533240
with 2 screws	533240
M4 × 10	583208
for round nozzle + pointed nozzle	583208
Hose mounted	533215
Ø 10 × 4000 mm.....	533215
Ø 13 × 4000 mm.....	533216
Hose	553210
Ø 10 mm per meter.....	553210
Ø 13 mm per meter.....	553213
Hose fitting set.....	533222
Ø 10 mm.....	533222
Ø 13 mm.....	533223
Empty glue container	533224
incl. cover with 1 hole..... 3 kg.....	533224
incl. cover with 1 hole..... 5 kg.....	533225
incl. cover with 2 holes	533226
10 kg.....	533226
Lid for glue container	553205
without hole..... 5 kg.....	553205
Lid for glue container	553224
without hole..... 10 kg.....	553224
Bracket with 2 screws for roller nozzle.....	552822
Pump hose.....	552029

Dosicol / Minicol / Servicol	Art.No.
Glue bottle with metering pump . for Dosicol	287012
Metering pump complete..... for Dosicol	287013
Cap for glue bottle..... for Dosicol	337001
Base..... for Dosicol	287010
Water container	337040
for Dosicol	337040
Adapter for nozzels..... for Dosicol	533232
Glue bottle Minicol, Servicol..... for Minicol / Servicol	335510
Base, solid wood for Minicol..... for Minicol	285515
Base, plastic for Servicol	335513
for Servicol	335513

Accessories / Repairing



Carbide tipped cutters for Lamello wood repair machines		Art.No.
100 × 8 × 22 mm, Z4, 4 screw holes (fits all Lamello biscuit joiners)	for Minispot patches Size 2	132217
100 × 15 × 22 mm, Z4.....	for Minispot patches Size 22	132209
100 × 15 × 22 mm, Z4.....	for Minispot patches Size 4	132208
100 × 20 × 22 mm, Z4..... (our recommendation)	for Minispot patches Size 20	132222
100 × 20 × 22 mm, Z2 with profile blades.....	Size 20	132220
Profile blades for Art.No. 132220	Size 20	132221

Carbide tipped saw blade Z20		Art.No.
Ø 100 × 2.4 × 22 mm	for Patchmaker 2, Patchmaker 20, Variocut	132301
Ø 100 × 2.4 × 22 mm with 2 spacers	for Patchmaker 2, Patchmaker 20, Variocut	132350

Carbide tipped profile cutter Z2		Art.No.
Shaft-Ø 8 mm	for Patchmaker 2	131600

Carbide tipped profile cutter Z2+2		Art.No.
Ø 80 × 29 × 20 mm	for Patchmaker 20 for 1 × Size 20	131620
	for 2 × Size 2	131621

Accessories / Window replacement



Carbide tipped saw blades

Ø 200 × 2.4 × 22 mm (cutting depth 68 mm) for Tanga Delta	Art.No.
Z12, 4 screw holes	132322
Z24, 4 screw holes	132320
Z24, 4 NL, higher resistance against screws, high cutting performance	132323
Z24, 4 NL, (only suited for cutting into the wood without moving the machine)	132321
Screw M4 × 8 for saw blades	352408F

Ø 200 × 2.2 × 22 mm (cutting depth 68 mm) for Tanga Delta	Art.No.
Z32, for aluminium windows	132324

Ø 180 × 2.4 × 22 mm (cutting depth 58 mm) for Tanga Swiss, 1811, Dia	Art.No.
Z12, 6 screw holes	132317
Z24, 6 screw holes	132318
Z24 special, 6 screw holes, only for cutting into the wood without moving the machine	132319

Ø 150 × 2.4 × 22 mm (cutting depth 45 mm) for Tanga 150, 1511	Art.No.
Z12, 6 screw holes	132315
Z24, 6 screw holes	132316
Z26 special, 6 screw holes, only for cutting into the wood without moving the machine	132314

Diamond blades

Ø 200 × 2.6 × 22 mm (cutting depth 68 mm) for Tanga Delta	Art.No.
4 screw holes, for a clean cut into tiles and plaster	132517
4 screw holes, segmented for soft materials	132522
4 NL, for PVC windows with steel core	132523

Ø 180 × 2.6 × 22 mm (cutting depth 58 mm)	Art.No.
4 screw holes	for Tanga Delta 132519
4 screw holes	for Tanga Dia 132518

Attention:

Please use original Lamello blades only for perfect cutting quality and to prevent damage to the machine

Accessories	Art.No.
Rabbet stop for Tanga	for Tanga 180, 1811 S, Swiss 251525
Base plate for corners	for Tanga Delta H, S2 121556
2 rolls for base plate	for Tanga Delta H, S2 321548
M5 × 8 screws for sliding guide	for Tanga Delta H, S2 251554
	352509

Carbide tipped saw blades

Ø 120 × 2.4 × 22 mm	for 35 Pa	Art.No.
Z20, with 2 spacers		132312
Z20, with flange M8		132382

Ø 100 × 2.4 × 22 mm	Art.No.
Z20, with 2 spacers	for Variocut 132350
Z20, without spacer rings	for Variocut, Patchmaker 2 132301

Accessories for saw blades	Art.No.
Flange M8, with screws (M4 × 6, Art.No. 352406)	252502
Spacer	40 × 22 × 1 mm for 35 Pa 322501
	40 × 22 × 0.5 mm for 35 Pa 322502

Accessories / Edge processing



131987

Carbide tipped edge cutters

Art.No.

Radius 2 mm, shaft-Ø 8 mm..... for Profila E, P 131987



121982



121983

Base plates

Art.No.

with gap, Ø 100 mm..... for Profila E 121982

for Profila, Pro 121987

without gap, Ø 100 mm..... for Profila E 121983

for Profila P2, Pro plus..... 121984

Collet chucks

Art.No.

6 mm..... for Profila E (L 48, L 50, 230 V).... 251960

8 mm for Profila E (L 48, L 50, 230 V).... 251962

1/4 " for Profila E (L 48, L 50, 230 V).... 251961

6 mm..... for Profila E (L 51, 120 V)..... 251963

8 mm..... for Profila E (L 51, 120 V)..... 251978

1/4 " for Profila E (L 51, 120 V)..... 251964

6 mm..... for Profila P2, Pro, Pro plus 251966

8 mm..... for Profila P2, Pro, Pro plus 251988

1/4 " for Profila P2, Pro, Pro plus 251967



121900

Dust cover

Art.No.

Individually adjustable position, with stopper for the bearing .. for Profila E, Pro, P2..... 121900



131822

Carbide tipped reversible blades (3 pieces)

Art.No.

45 × 12 × 1.5 mm, angle 55°..... for Cantex Ergo, Plano 45 131822
(from 2006)

45 × 12 × 1.5 mm, angle 45°..... for Cantex, Plano 45..... 131823
(until 2006)



131980

Carbide tipped profile cutter

Art.No.

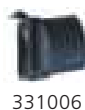
Ø 30 mm for Lamina, 90° and 35° 131980

for Lamina, 90° and 22°

Suction accessories



Suction set complete		Art.No.
Suction set 23.....	for biscuit joiner, Variocut, 3S, G2A	121810
	Inner diameter 23 mm	
	3 m suction hose black	
	Conical connecting piece for hose Ø 30–42 mm	
Suction set 30.....	for Tanga Delta, G20	121820
	Inner diameter 30 mm	
	4 m Suction hose with adapter 58 mm	



Parts		Art.No.
Suction hose	black int. Ø 23 mm, per Meter.....	331808
Connecting piece	conical..... for suction hose, int. Ø 23 mm .	331802
Suction hose adapter	for suction set 23 and 30	331805
	54 and 58 mm	
Suction stub 23 mm.....	for biscuit joiner, Perfora,	331006
	Trimming unit Patchmaker	
Deflector stub	for biscuit joiner	331005
Extractor stub 36 mm.....	for biscuit joiner	331007
	(Festool compatible)	
Dust bag.....	for biscuit joiner	337530
Dust bag and extractor stub Ø 36 mm	for biscuit joiner	257530
Dust bags	for Art.No. 283035 10 pieces	283030
Suction stub LMA-74	for 3S, G2A, G2, Junior10, Dynamic,	281804
	Directa, Top	
	fits suction hose, int. Ø 23 mm	

Spare parts

Stop square		25 1044			33 1050	25 3023	25 3026	25 1042	25 1055	25 1040		25 4301	Zeta / Zeta P2
Front stop, plastic					33 1050	25 3023	25 3026	25 1042	25 1055	25 7571		25 4301	Top 21
Anti-slip pad					33 1050	25 3029	25 3024	25 1052	25 1055	25 1050		25 4301	Top 20 S2 / S3 / S4
					33 1050	25 3029	25 3024	25 1052	25 1055	25 1050		25 4301	Top 20 / Top 20 S
					25 1004	25 3028	25 3022						Top 10
					33 1050	25 3023	25 3026	25 1042	25 1055	25 7571			Classic X
					33 1050	25 3029	25 3024	25 1052	25 1055	25 1050		25 4550	Experta / Classic C3
					33 1050	25 3029	25 3024	25 1052	25 1055	25 1050		25 4550	Classic C2
					25 1004	25 3028	25 3022		25 1223			25 1230	Classic
					25 1004	25 3028	25 3022					25 1030	Standard 10A
					25 1004						25 1300	25 1310	Junior 10 / Standard 10
	25 1704										25 1705	25 4552	Minisport G2A
	25 1704											25 1210	Minisport G2
	25 1731									25 1751		25 6101	Minisport G20 S2
	25 1731									25 1730		25 1210	Minisport G20
	25 1322									25 1420		25 1210	3S
	25 1322									25 1420		25 4552	3S Pa
										25 1532		25 7001	Tanga Swiss
										25 1532		25 6101	Tanga 1811 S / 1811 S2
										25 1520		25 1210	Tanga 180 / 1811
										25 1550		25 1551	Tanga Delta



P-System

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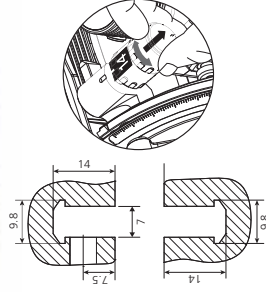


P-System



P-System cutter	Art.No.
Ø 100.4 x 7 x 22 mm, Z3	
Diamond tipped	132140
Carbide tipped	132141

Clamex P-14



Detachable connecting fitting

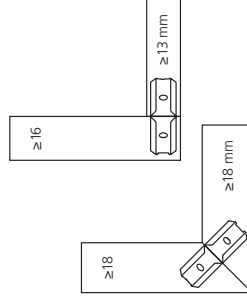
Size 64 x 27 x 9.7 mm

Tensile strength

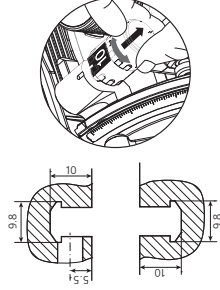
Particle board: ~ 800 N
Beech: ~ 1'000 N

Art.No.

80 pairs	145334
300 pairs	145346
1000 pairs	145356



Clamex P-10



Detachable connecting fitting

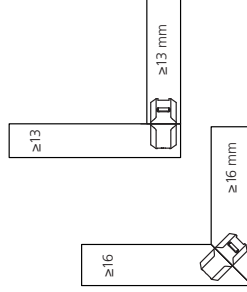
Size 52 x 19 x 9.7 mm

Tensile strength

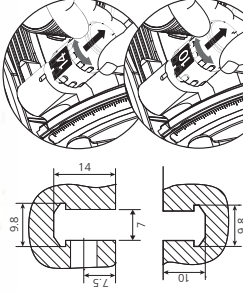
Particle board: ~ 600 N
Beech: ~ 900 N

Art.No.

80 pairs	145372
300 pairs	145373
1000 pairs	145374



Clamex P Medius 14 / 10



Detachable connecting fitting for centre panels

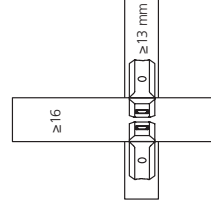
Size 64 x 13.5 x 9.7 mm
52 x 7.5 x 9.7 mm

Tensile strength

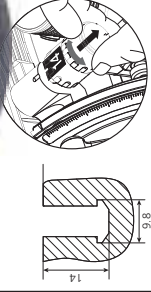
Particle board: ~ 700 N
Beech: ~ 900 N

Art.No.

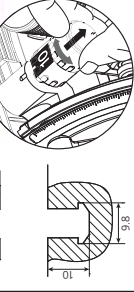
80 pairs	145370
300 pairs	145371
1000 pairs	145377



Bisco P-14



Bisco P-10



Aligning element suitable for Clamex P-14 + Tenso P-14 and Clamex P-10

Size

Bisco P-14 65 x 27 x 7 mm
Bisco P-10 52 x 19 x 7 mm

Bisco P-14

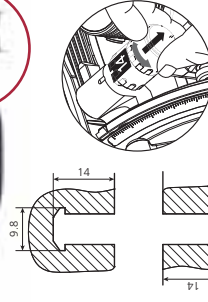
80 pieces	145301
300 pieces	145302
1000 pieces	145303

Bisco P-10

80 pieces	145304
300 pieces	145305

Bisco P-14: Ideal for dry assembly before glueing with Tenso P-14

Tenso P-14 with preload function



Self-clamping fitting as gluing aid

Size 66 x 27 x 9.7 mm

Tightening force

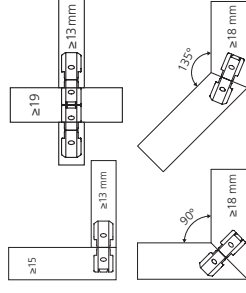
per connector: ~ 150 N

Tenso P-14

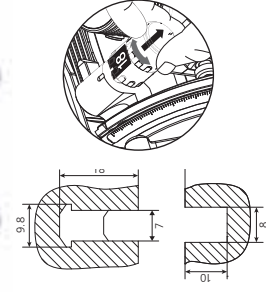
80 pairs	145415
300 pairs	145425
1000 pairs	145435

Preload clip

300 pieces	145426
1000 pieces	145436



Divario P-18



Self clamping, invisible fitting for slide insertion

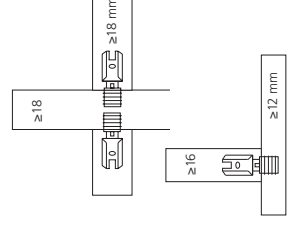
Size 65 x 16 x 9.7 mm
Ø 8 x 9 mm

Tensile strength

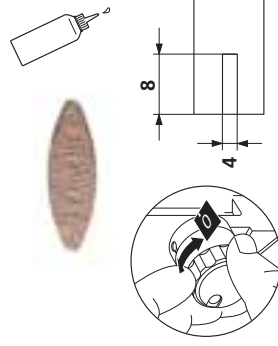
all materials: ~ 600 N

Art.No.

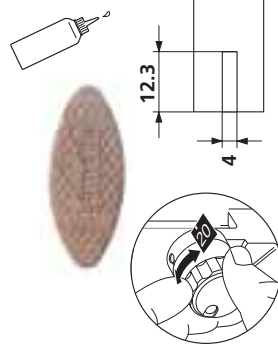
80 pairs	145550
300 pairs	145560
1000 pairs	145570



original wooden biscuit

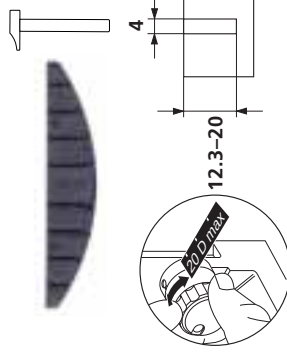


	Art.No.
0	144000
1000 pieces	
Size	47 x 15 x 4 mm



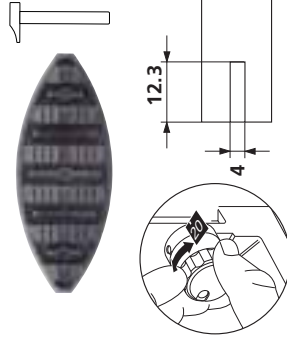
	Art.No.
20	144020
1000 pieces	
Size	56 x 23 x 4 mm

E20-L



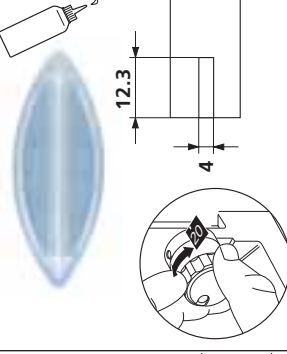
	Art.No.
Self-clamping element	
Size	56 x 11.5 x 4 mm
80 pieces	145022
400 pieces	145025
1200 pieces	145027

K20



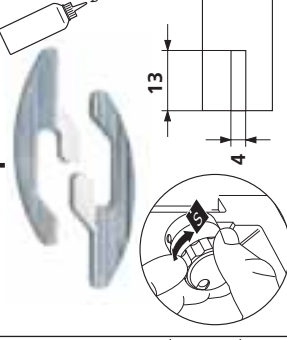
	Art.No.
Clamping element	
Size	60 x 24 x 4.5 mm
80 pieces	145001
250 pieces	145000

C20



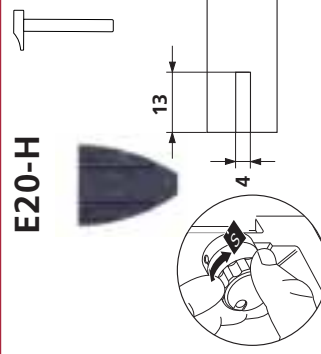
	Art.No.
Biscuit for solid surface	
Size	60 x 23 x 4 mm
250 pieces	145010

Simplex



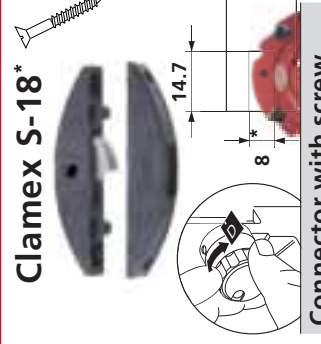
	Art.No.
Detachable slide-in connector	
Size	54 x 23 x 4 mm
50 pairs	166101
100 pairs	166100

E20-H



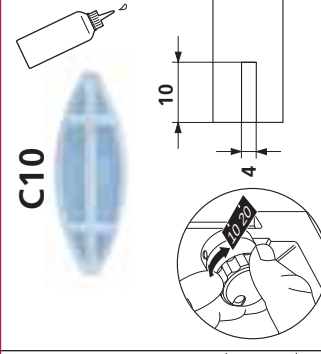
	Art.No.
Self-clamping element	
Size	23 x 28 x 4 mm
80 pieces	145021
400 pieces	145026
1200 pieces	145028

Clamex S-18*

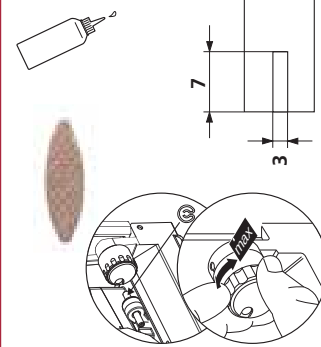


	Art.No.
Connector with screw insertion	
Size	66 x 29 x 8 mm
* Cutter with reversible blades: Ø 100 x 8 x 22 mm, Art.No. 132108	
18 pairs	145231
80 pairs	145236
300 pairs	145241
1000 pairs	145251

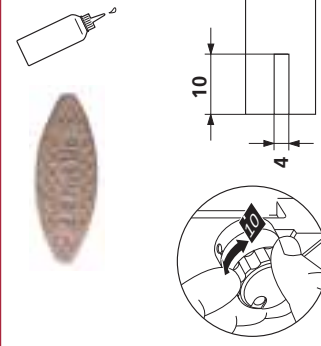
C10



	Art.No.
Biscuit for solid surface	
Size	53 x 19 x 4 mm
300 pieces	145012



	Art.No.
H9**	144009
1000 pieces	
Size	38 x 12 x 3 mm
** Carbide tipped groove cutter Ø 78 x 3 x 22 mm, Art.No. 132009	



	Art.No.
10	144010
1000 pieces	
Size	53 x 19 x 4 mm

Subject to modifications and amendments

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www.lamello.com

Manufacturer:
Lamello AG
Joining technology
Hauptstrasse 149
CH-4416 Bubendorf
Tel. +41 61 935 36 36
Fax +41 61 935 36 06
info@lamello.com
www.lamello.com