



# Catalogue

2016 / 2017

english

**Pioneering  
wood joining**  
simple ingenuity



# Intelligent and innovative design with a significant impact!

We strive for new solutions in wood joining and processing technology that give our customers new freedom in design and production. Years of practical experience and close cooperation on development with our customers, combined with quick implementation mean that we are able to provide outstanding services while continually supporting and inspiring our customers in trade and industry.



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Lamello Distribution Network  
**We are there for you**  
**– worldwide!**



Lamello head quarter, Bubendorf Switzerland





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.





«Successfully fostering practical innovation and creativity with and through our employees and business partners in order to create clearly identifiable value and advantages for our customers in trade and industry – benefits that facilitate sustainable growth for all involved.»



Susanne Affolter Owner Lamello AG





«I am a Lamello fan from the very beginning, and it is great to have an innovative and dynamic partner by my side»

Gerd Stuber, Managing Director of Stuber Team AG in Rotkreuz, Switzerland

# The name Lamello combines **Tradition and Innovation.**

## We particularly value:

### **System solutions**

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.

### **Customer focus**

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.

### **Excellent quality**

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.

### **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.

### **Durability and economy**

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.

### **Environmental responsibility**

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

«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





# Joining with the **P-System**



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

## How it works



## Advantages and properties

### Fittings installation twice as fast



Save cost due to the fast installation of fittings by simply inserting the elements



### Tool-less fittings installation



Very simple fitting installation by hand in the workshop or on site



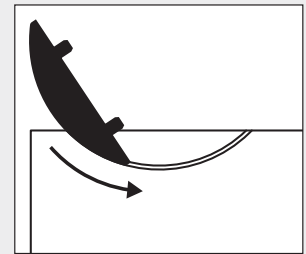
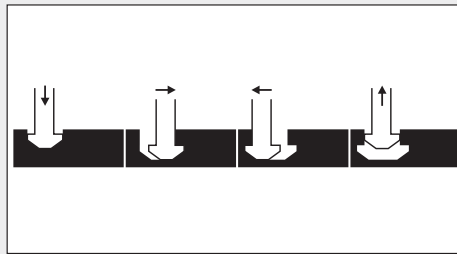
### Low packing volume



Stackable with pre-installed fittings brings advantages in packing and transport and allows for fast assembly on site

# P-System

Form-locking anchorage  
without tools

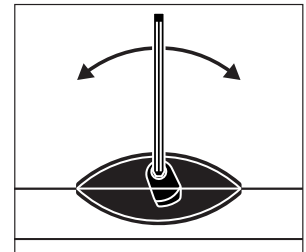
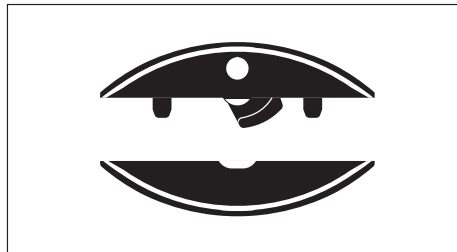


**Fast installation**

Inserting instead of screwing or  
glueing

# Clamex P

Detachable connecting fitting



**Detachable**

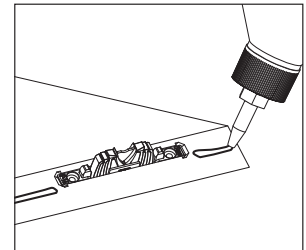
Open the connection time and  
time again with the rotating  
lever

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# Tenso P

**with preload clip**

Self-clamping fitting as  
glueing aid, for all angles



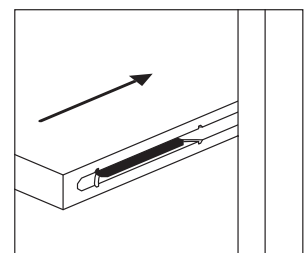
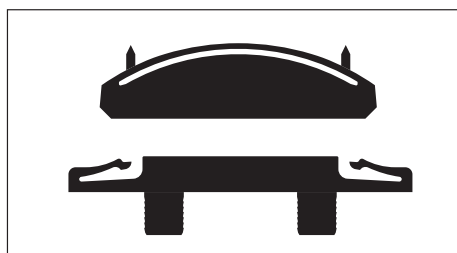
**Glueing**

Fixed joints of two workpieces

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# Divario P

Self-clamping, invisible  
fitting for slide insertion

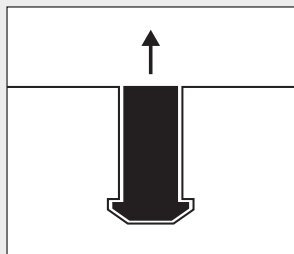


**Sliding insertion**

Insertion between two fixed  
sides or shelves via a guiding  
groove

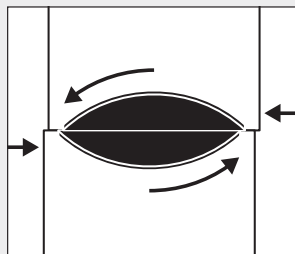
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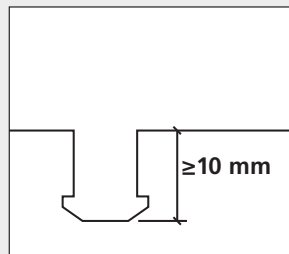
### Strong

Form-locking anchorage across large surface areas



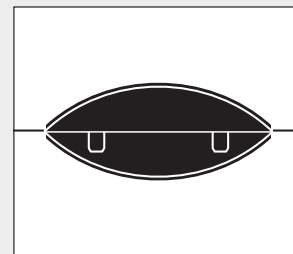
### Lateral tolerance

Perfect, flush alignment of both work pieces



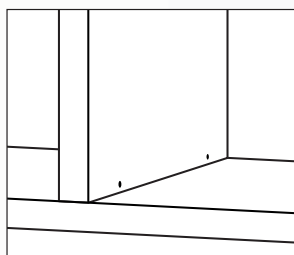
### Shallow depth

Minimal cutting depth with maximum tensile strength



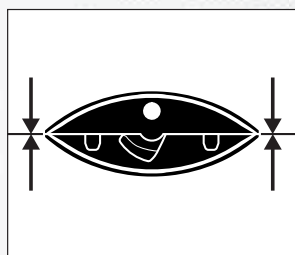
### No twisting

The positioning pins prevent twisting without additional dowels



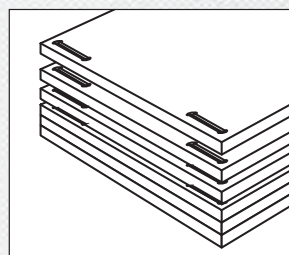
### Aesthetic

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



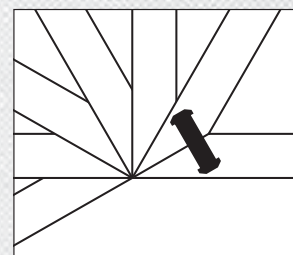
### High clamping force

Clamp and glue work pieces at any angle,  $\sim 80 \text{ kg}$



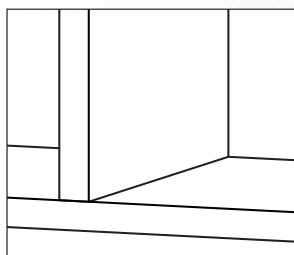
### Stackable

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



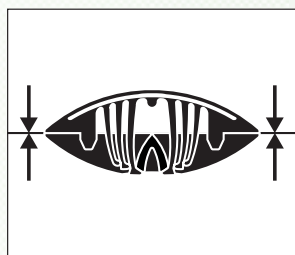
### Versatile

The shallow element depth allows for mitres from  $22.5^\circ - 180^\circ$ , surface, corner and dividing panel connections



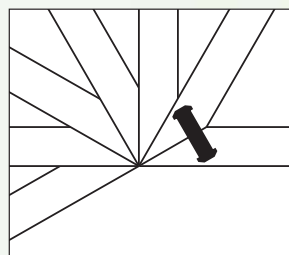
### Invisible

No visible fitting



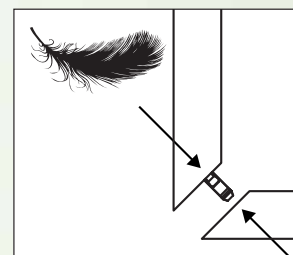
### High clamping force

Allows for perfect alignment and clamps the workpieces  $\sim 15 \text{ kg}$



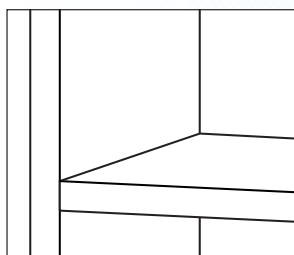
### Versatile

Simple gluing of mitre joints



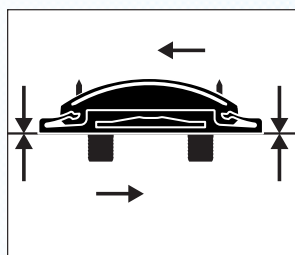
### Lower assembly force

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



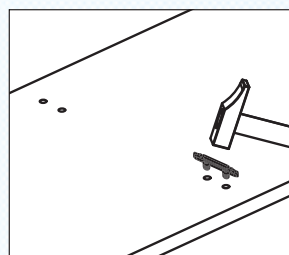
### Invisible

Guiding groove covers the fittings



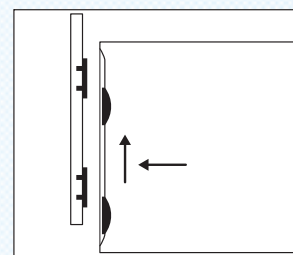
### Clamped joint

No resistance while inserting until shortly before building the clamping force



### Fast installation

Quick installation of the fittings without glue after transport.



### Assemble by sliding

Partially routed guiding groove for completely invisible furniture joints

# Clamex P

Detachable connecting fitting



### Advantages and properties

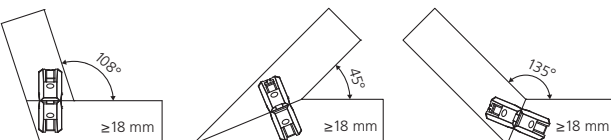
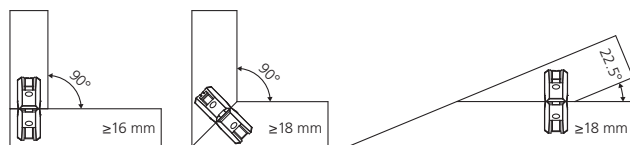
- **Small opening 6mm**, differentiation to furniture standards
- **Stackable with pre-installed fittings**, advantages in packaging, transport and logistics
- **Short assembly time on site**, minimal installation cost

- **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 16mm



### Technical data

Size..... 66 x 27 x 9.7 mm  
 Cutter..... Ø 100.4 x 7 x 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	~ 1'000

### Clamex P-14

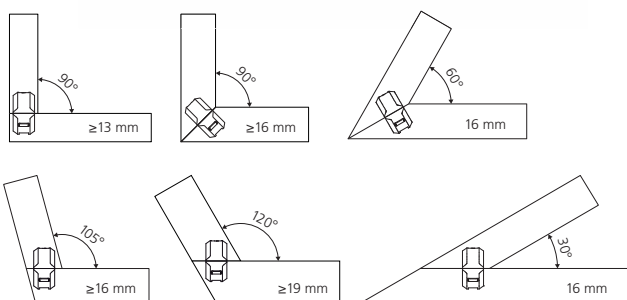
	Art.No.
Carton with 80 pairs .....	<b>145334</b>
Carton with 300 pairs .....	<b>145346</b>
Carton with 1000 pairs .....	<b>145356</b>

Drill jig P-System ..... **125344**



# Clamex P-10

For panels from 13mm



### 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

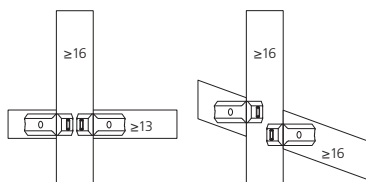
### Art.No.

Carton with 80 pairs .....	<b>145372</b>
Carton with 300 pairs .....	<b>145373</b>
Carton with 1000 pairs .....	<b>145374</b>

Drill jig P-System ..... **125344**

# Clamex P-Medius 14/10

For centre panels from 16mm



### Technical data

Size.....	66 × 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 .....	<b>145370</b>
Carton with 300 pairs .....	<b>145371</b>
Carton with 1000 pairs .....	<b>145357</b>

Drill jig P-System ..... **125344**



# 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

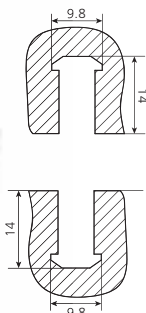
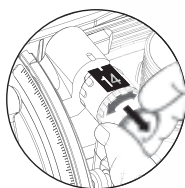
- **Surface structure allows use as a connecting element** when glueing work pieces with PVA glue

## 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

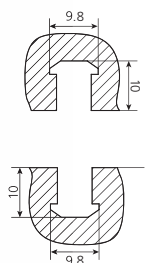
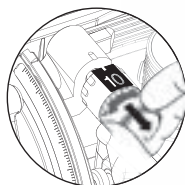
Size Bisco P-14 .....	65 × 27 × 7 mm
Size Bisco P-10 .....	52 × 19 × 7 mm
Cutter .....	Ø 100.4 × 7 × 22
Material .....	plastic
Installation tolerance .....	longitudinal ± 2 mm
Tensile strength with adhesive .....	~ 400 N ≈ 40 kg

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

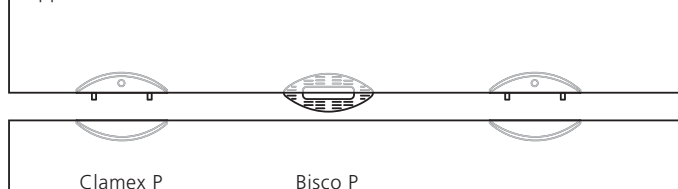
Bisco P-10	Art.No.
Carton with 80 pieces .....	145304
Carton with 300 pieces .....	145305

## Bisco P-10

Aligning element suitable for Clamex P-10



Application:







## Furniture manufacturing / Interior fitting

Your advantages with Clamex P

### Aesthetic solution

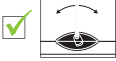

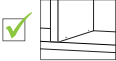
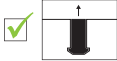
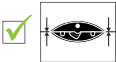
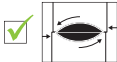
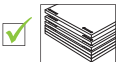



– Differentiation to furniture standards

### 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

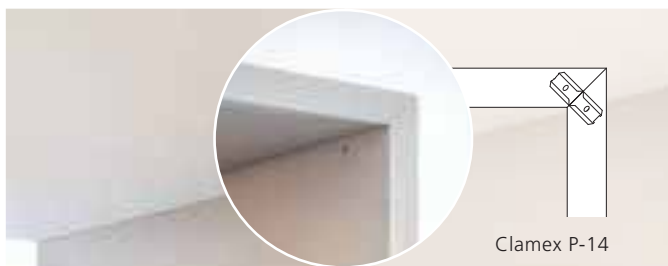
– Minimal installation cost

- |   |  |
|---|--|
| ✓  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.





Clamex P-14



Clamex P-14



Clamex P Medius 14/10



Clamex P-14



Clamex P-14



Clamex P Medius 14/10

Clamex P-14



# Tenso P

glue faster, for all angles

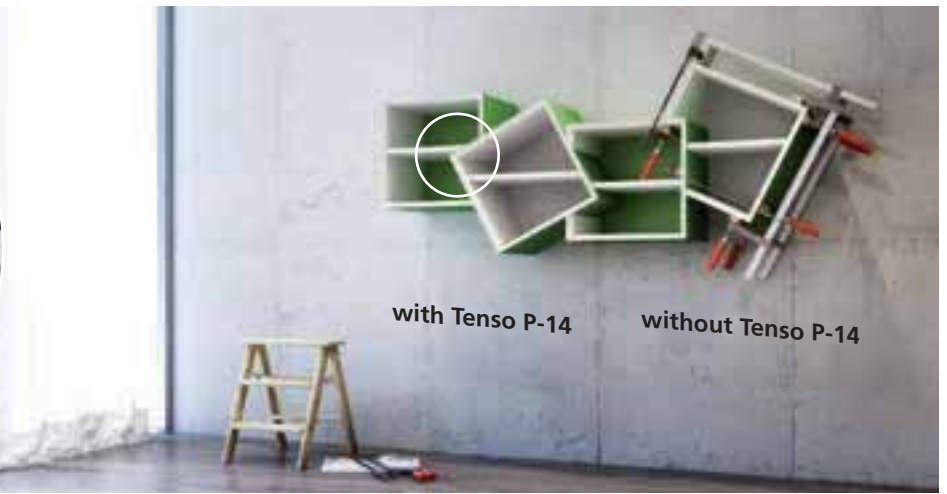


## Tenso P-14, Advantages and properties

- High clamping force → **usage as glueing aid** (no screw clamp or press needed)
- Completely invisible → **perfectly aesthetic**
- Installation without tools → **reliable process** (simple + fast, no screws or glue necessary)

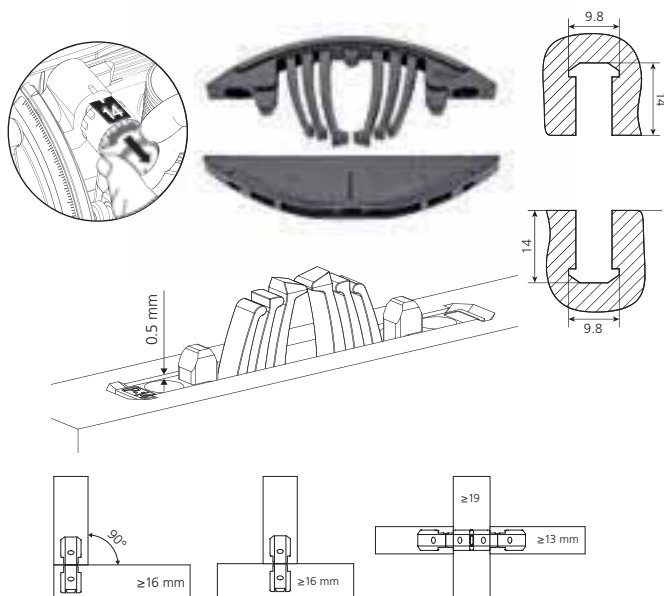
## Tenso P-14 with preload clip, Advantages and properties

- Versatile → simple glueing of mitre joints
- Lower assembly force → only a short power impulse necessary to join
- Effortless joining regardless of the number of connectors



# Tenso P-14

Self-clamping fitting as glueing aid



### Technical data

Size.....	66 x 27 x 9.7 mm
Cutter.....	Ø 100.4 x 7 x 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

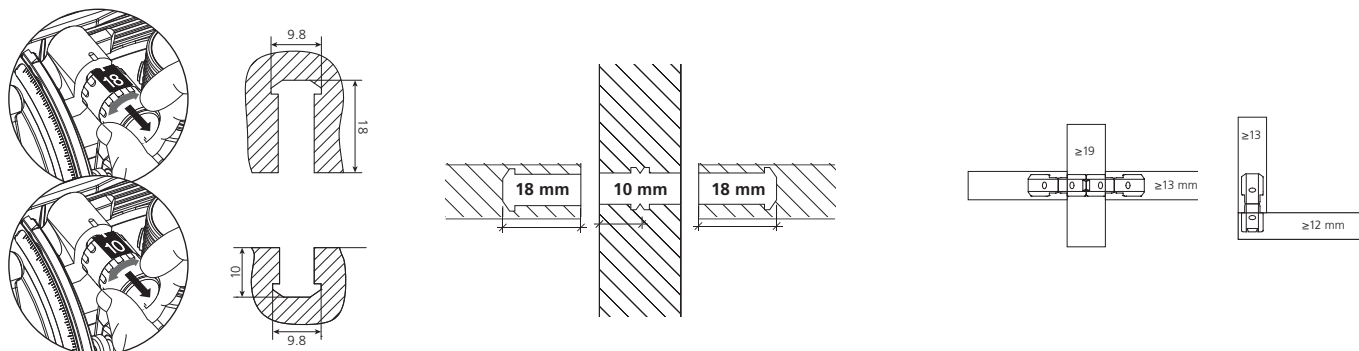
### Important:

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





## Installation with off-set



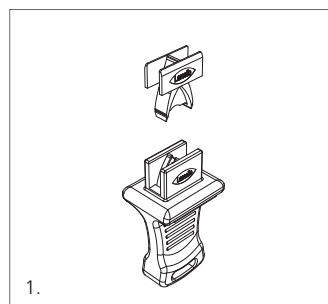
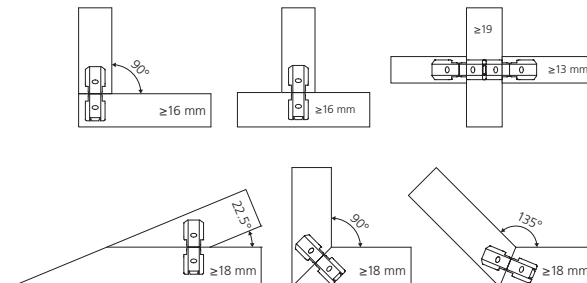
# Tenso P-14 + preload clip

Self-clamping fitting as glueing aid, for all angles

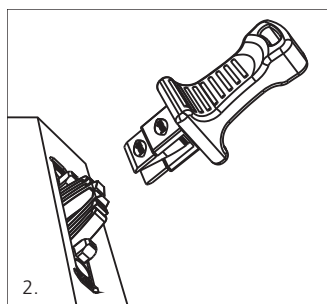
Tenso P-14 Starter-Set	Art.No.
Carton with 80 pairs (with preload clip).....	1454155
Carton with 80 pairs (with preload clip).....	1454255

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

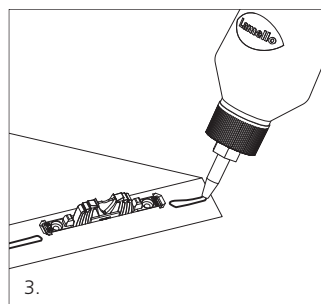
Accessories can be found from page 92 onwards



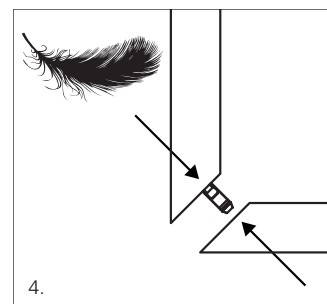
1. Insert preload clip into installation tool



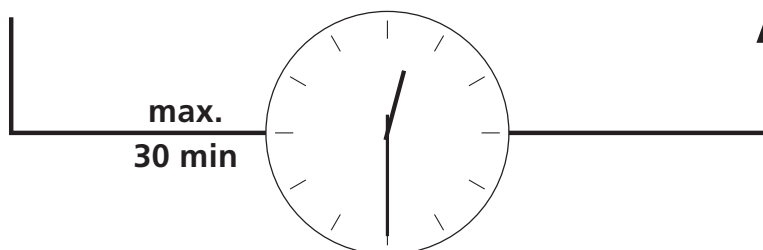
2. Preload the Tenso P-14



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

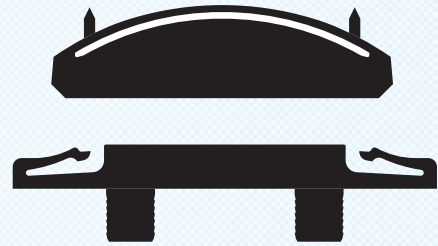


2013



# 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 x 16 x 9.7 mm  
 Half for drill holes..... Ø8 x 9 mm, distance 32 mm  
 Cutter..... Ø100.4 x 7 x 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

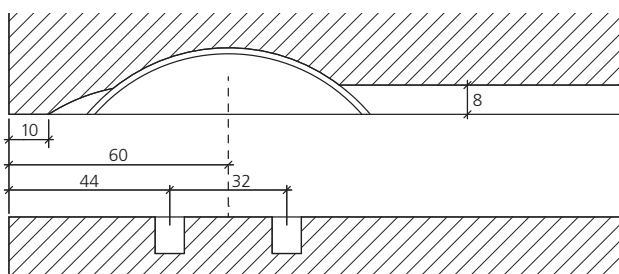
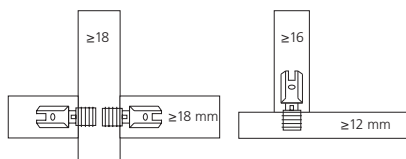
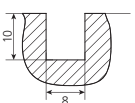
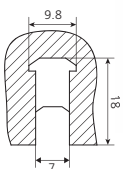
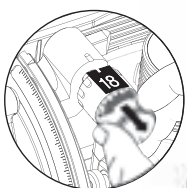
## Divario P-18

	Art.No.
<b>Starter-Set</b> 80 pairs incl. Installation tool.....	<b>145550S</b>
Carton with 80 pairs .....	<b>145550</b>
Carton with 300 pairs .....	<b>145560</b>
Carton with 1000 pairs .....	<b>145570</b>

Divario P-18 Installation tool..... **125500**

to insert the fittings and drive the positioning pins into the wood

Divario P-18 marking jig incl. drill ..... **125510**  
for the marking of the drilling positions







## 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 Stadthohn



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](http://www.lamello.com)

Exceptionally fast joining method with a power tool.  
 Make any corner joint in less than 2 minutes!

**0:30** Cut four profile grooves with the Lamello Zeta P2. Fast and precise by applying on the work piece edge

**1:05** Drill two holes with the drill jig, for all angles from 22.5 – 180°

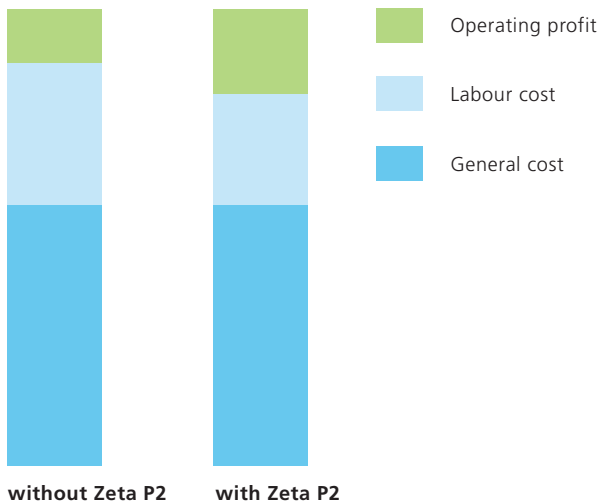
**1:35** Slide the P-System connectors into the profile groove by hand without tools!

**1:45** Close with an allen key – Finished!

Lamello Zeta P2 is the right investment into your future

### Time saving with every groove!

Improve your profit by lowering your labour cost!



### Zeta P2 with centre marking

1. Cut and mark centre
2. Copy centre to second part
3. Align Zeta P2 with the marking
4. Connections at all angles

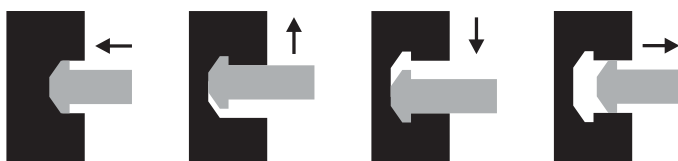
## Advantages in the production process

- 1. P-groove with Zeta P2** >>>>>>
- Corner joint with 2 connectors in under 2 minutes
  - Short setup time
  - No side stops necessary, line up to the work piece edge or to the pencil mark

- 2. Storage** >>>>>>
- Small storage volume due to stacking despite installed connector
  - Take out the connector for surface treatment – fast and easy



Vertical mechanical drive (VMD)



**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

**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 19 more applications (see page 48)



Exterior flush mitre joints

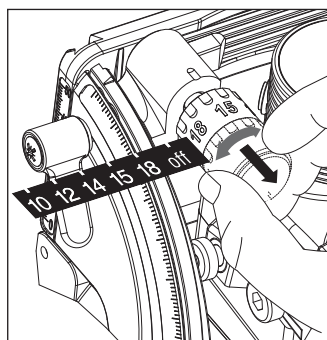


**Technical data**

Power .....	1050 W
Voltage .....	230 V
Speed .....	9'000 min <sup>-1</sup>
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

**Rotatable depth adjuster for P-System depths**

- **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**

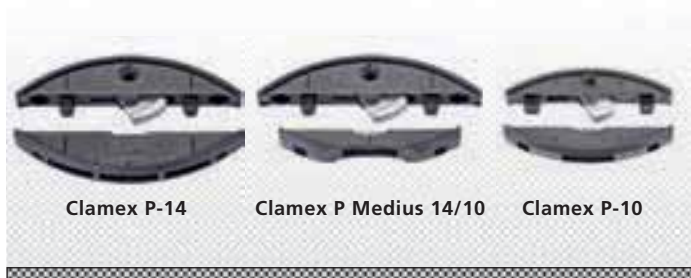
**Art.No.**

- with carbide tipped profile groove cutter in Systainer.... **101402S**
- with diamond tipped profile groove cutter in Systainer **101402DS**

**Kit contains**

- |                             |                                  |
|-----------------------------|----------------------------------|
| - Zeta P2 with 1050 W motor | - 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 92 onwards



**3. Delivery: in parts**

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



**4. Assembly on site**

- **Fast and efficient assembly** with an allen key
- **No waiting time after clamping the glue joint**



# 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**

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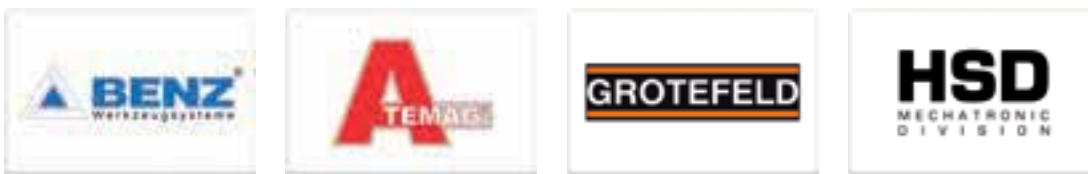
# CNC partners

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

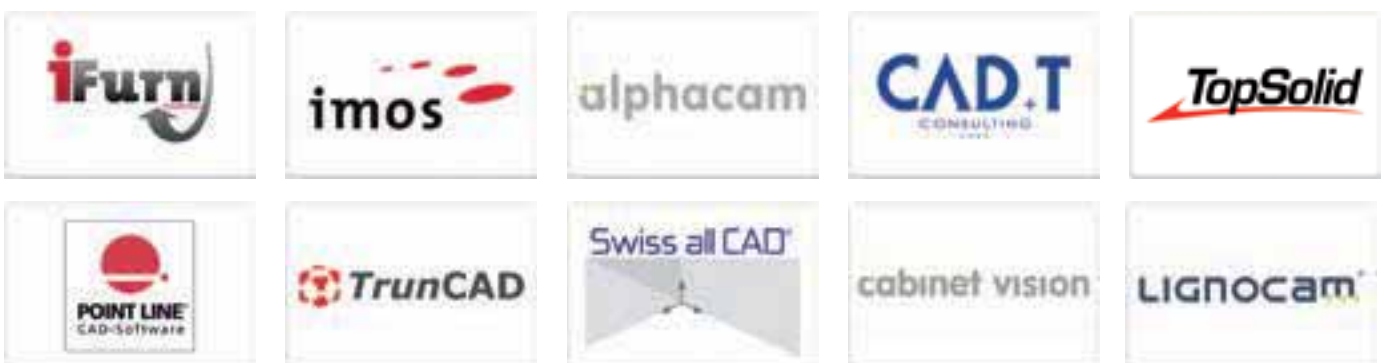
## Partners for CNC-technology



## Partners for aggregates



## Partners for software



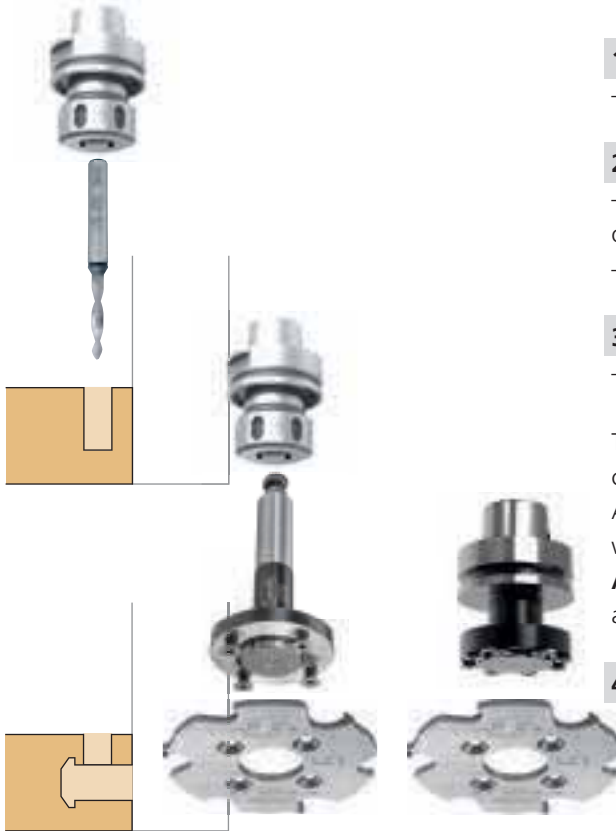
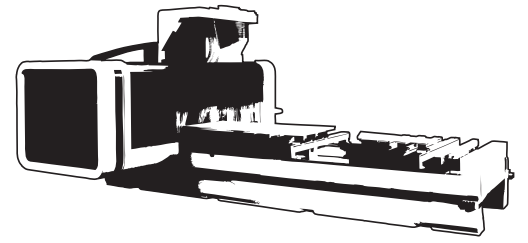
## Partners for tooling





# 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](http://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 x 7	Art.No.
× 30 mm, 4 / 6.6 / DTK 48 mm, Z3 .....	132142
× 30 mm, 4 / 6.6 / DTK 48 mm, Z6 .....	132145
* Suitable for all cutter arbors listed below	
× 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	



* 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	



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






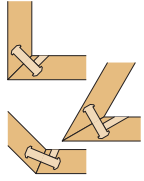














































Positioning pins for Zeta P2	Art.No.
Ø 5 mm, 1 pairs .....	251048
Ø 8 mm, 1 pairs .....	251066



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


# Requirements for CNC machines:

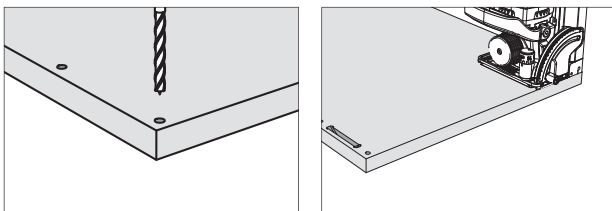
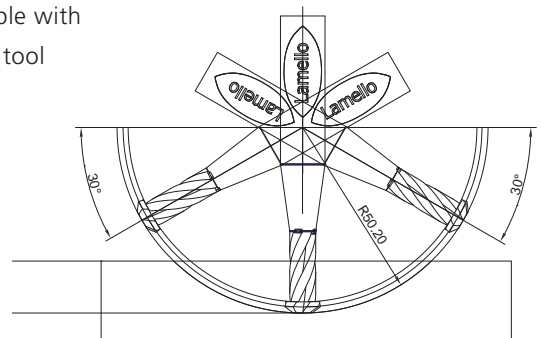
- Either the macro and component software for the desired angle are provided or you have programmed these yourself
- Aggregate sub program is available

Machines	Axes	Equipment (Varies depending on machine and aggregate)  CNC tools on page 37		Surface 180°	Corner 90°	Centre wall 90°	Mitre 22.5° – 180°	
								
Portal	3/4		—	1 x P-System cutter 1 x cutter arbor 1 x drill Ø 6 mm				
				2 x P-System cutter (2) x cutter arbor 1 x drill Ø 6 mm				
				1 x P-System cutter 1 x cutter arbor 1 x P-System drill Ø 6 mm				
	4			1 x P-System cutter + adaptor 1 x P-System drill Ø 6 mm + adaptor				
	5		—	1 x P-System cutter 1 x cutter arbor 1 x P-System drill Ø 6 mm			  	
				2 x P-System cutter (2) x P-System cutter arbor 1 x P-System drill Ø 6 mm				
Nesting	3/4	—	—	1 x drill Ø 5 mm 1 x drill Ø 6 mm				
	5		—	1 x P-System cutter 1 x cutter arbor 1 x 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



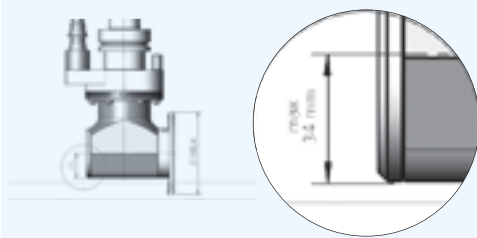
-  Not possible

More on page 40

For more information, visit: [www.lamello.com](http://www.lamello.com)

## Aggregates

### Angle aggregate

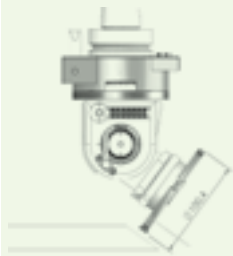


#### Possible angle aggregates

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

An aggregate overview can be found on the Lamello website: [www.lamello.com](http://www.lamello.com)

### Manually adjustable swivelling aggregates



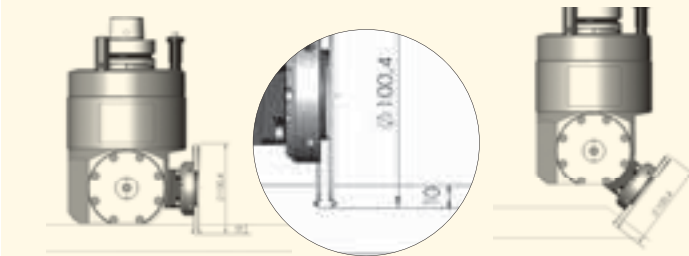
**Information:** Several tool changes required for angle cuts, drilling and P-System grooves

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!

**Information:** The cutting depth in the centre of the

### 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

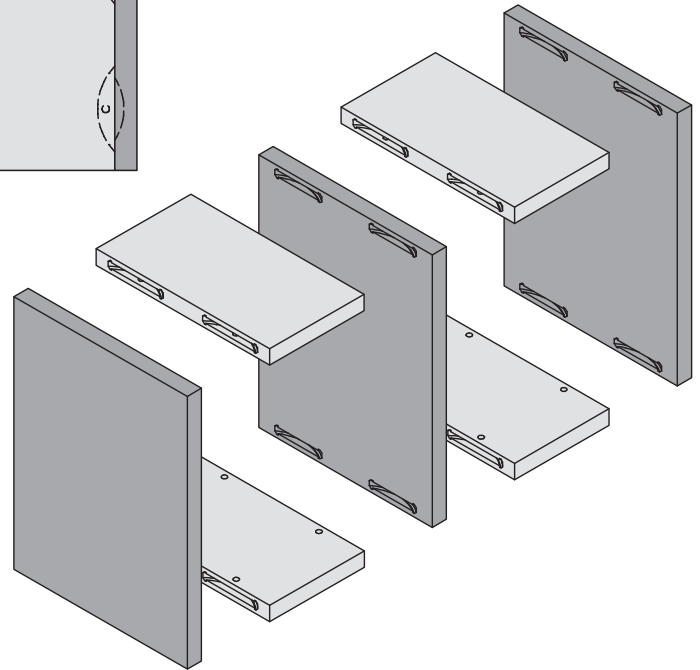
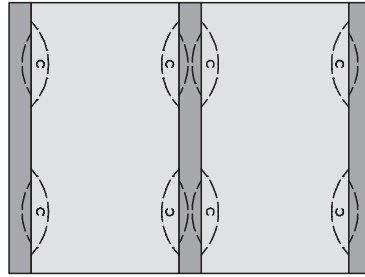
1. Easy assembly by customer possible
  2. Assembly by sales personnel or tradesman
- Shorter assembly time on site



# Ideas for standardising the machining on a CNC machine

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

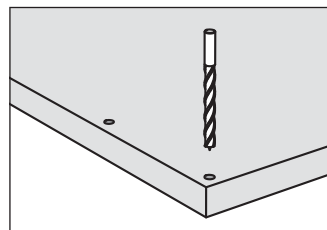
**Depth 14 mm** for all P-System grooves **in the edge**



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

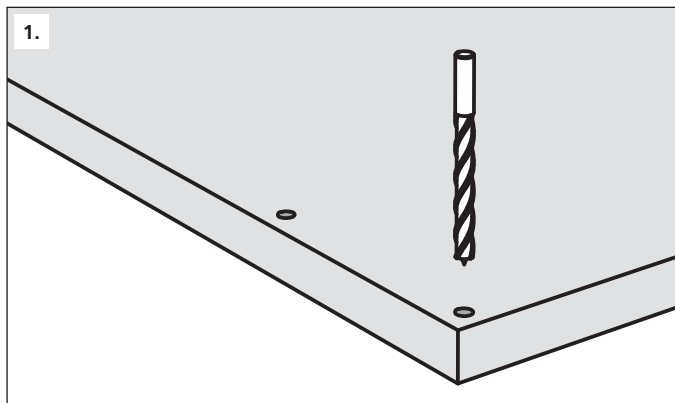
### Advantages and properties

- 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

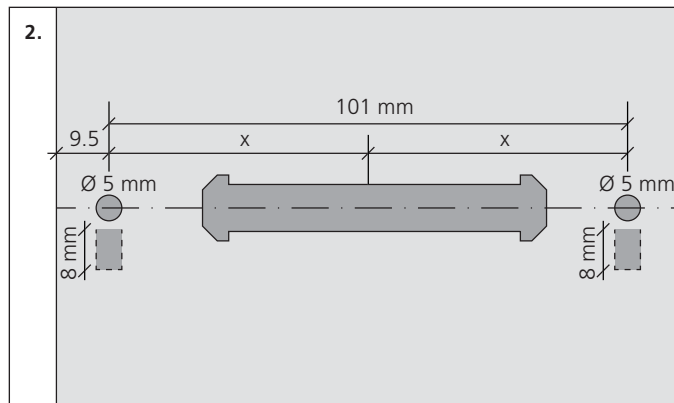


Positioning clip for Zeta P2	Art.No.
ø 6 mm.....	251067
For positioning in the Clamex access hole (6mm)	

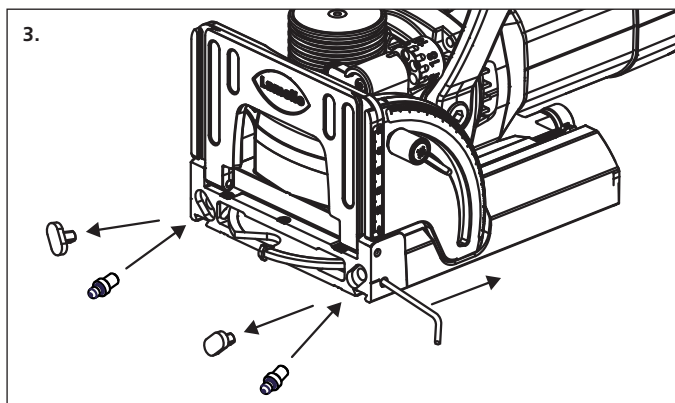
## Cutting the groove in the surface



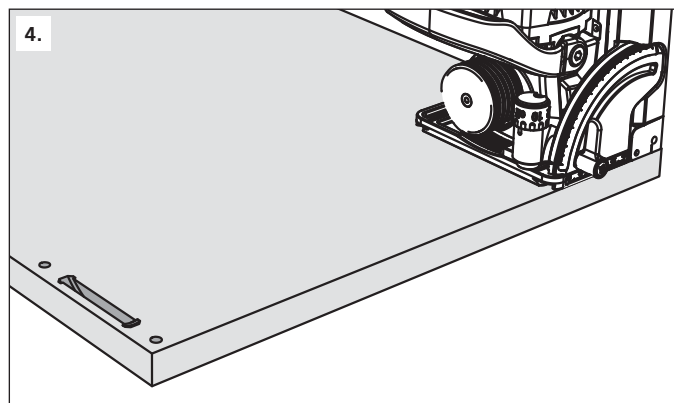
Drill the positioning holes with the CNC,  $\varnothing 5 \text{ mm} / \varnothing 8 \text{ mm}$



Hole pattern of the positioning drill holes

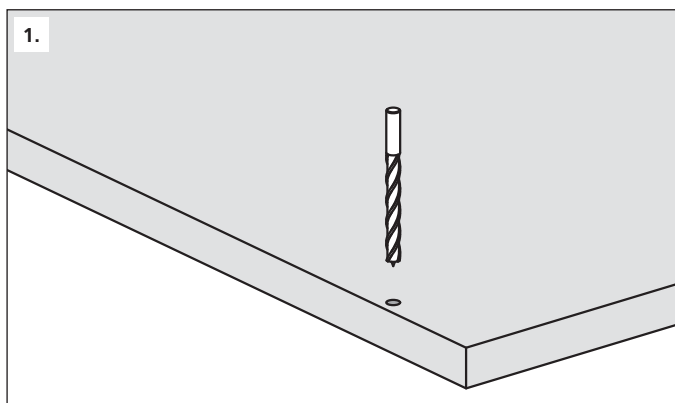


Insert the positioning pins in the Zeta P2

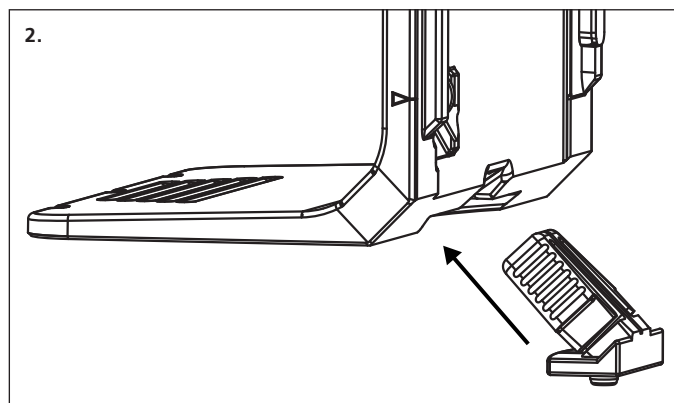


Position the machine in the drill holes

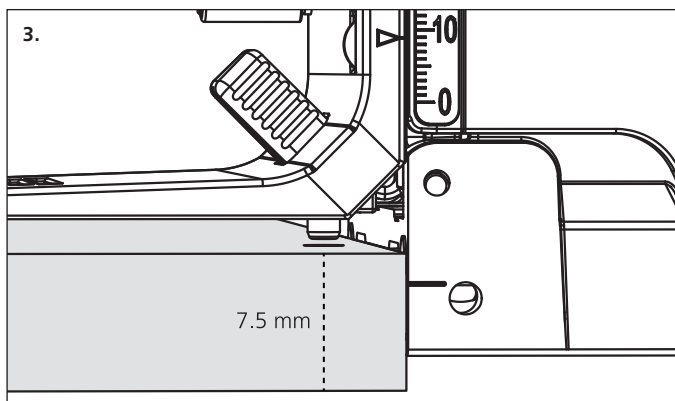
## Cutting the groove in the edge



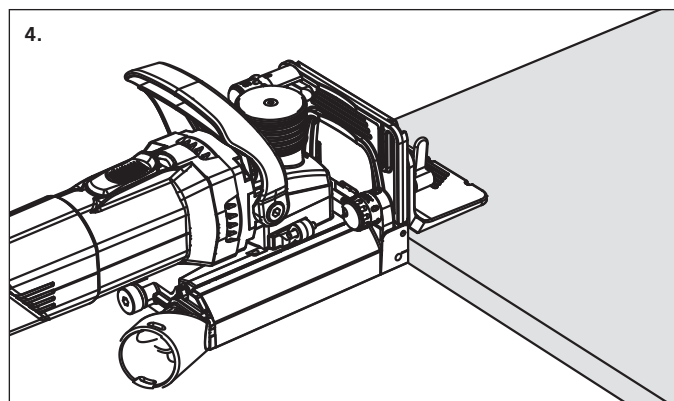
Drill the positioning hole with the CNC,  $\varnothing 6 \text{ mm}$



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 Lamello original wood biscuits are simple to use, precise and ingenious!»

from left to right: Ivan Gehrig, production foreman and Daniel Hofer, market specialist and junior manager of Stöcklin kitchens, 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

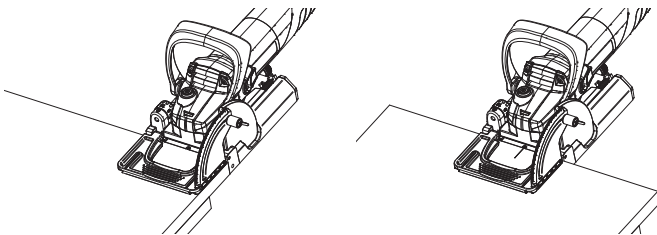


4. Clamp work piece

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

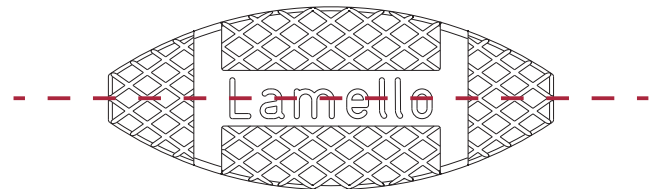
## Advantages and properties

**Fast** – Lateral sliding tolerance



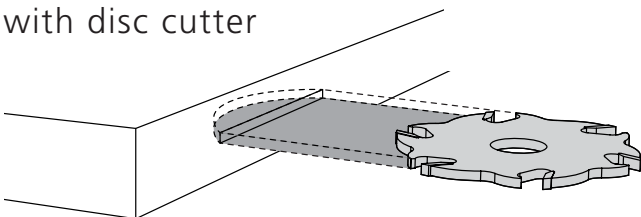
- **Easy positioning** of the machine to the pencil mark
- **No additional side stops or positioning aids necessary**
- **Great flexibility** when assembling, possibility to join panels by sliding together from different angles – not just perpendicular unlike dowels (see large picture left)

**Easy** – Same groove depth for both sides



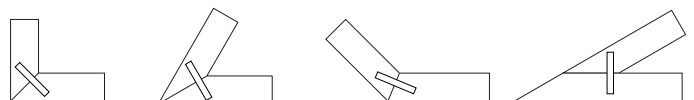
- No changing of the cutting depth means **less room for error**
- **Saves time** with every joint

**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 13 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

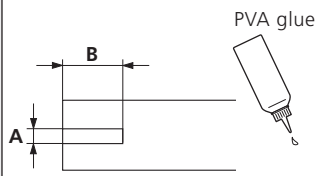


# Lamello joining technology – Lamello System

Matching machines: Classic X, Top 21

## Original wooden Lamello biscuits

p. 52



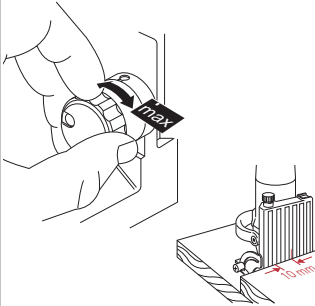
PVA glue



	S6	20	10	0	H9
A	4	4	4	4	3
B	20	12.3	10	8	7

### S6

S6: 85 × 30 × 4 mm

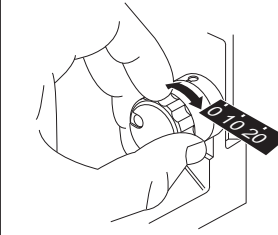


### 20, 10, 0

20: 56 × 23 × 4 mm

10: 53 × 19 × 4 mm

0: 47 × 15 × 4 mm



### H9

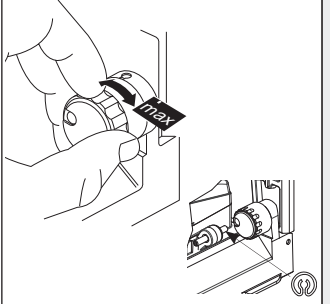
H9: 38 × 12 × 3 mm



Carbide tipped cutter:

Ø 78 × 3 × 22 mm

Art.No. 132009



## C10 / C20 Biscuit for solid surface

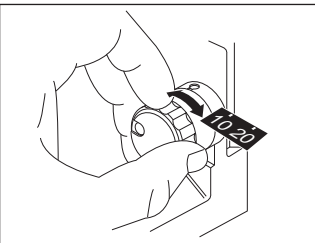
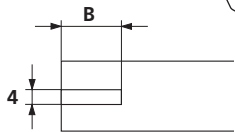
C20: 60 × 23 × 4 mm

p. 57

C10: 53 × 19 × 4 mm

Corian glue

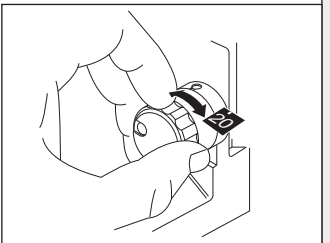
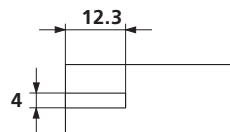
	C20	C10
B	12.3	10



## K20 Clamping element

60 × 24 × 4.5 mm

p. 56

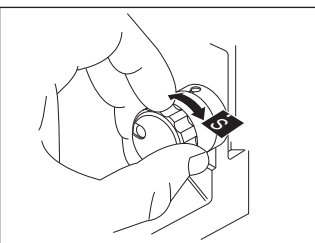
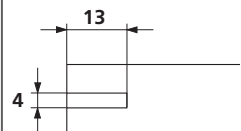


## Champ Slide-in connector

64 × 26 × 4 mm

p. 56

PUR glue

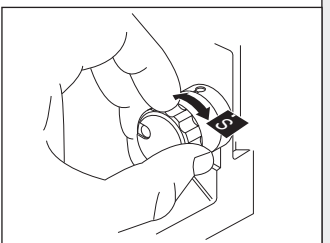
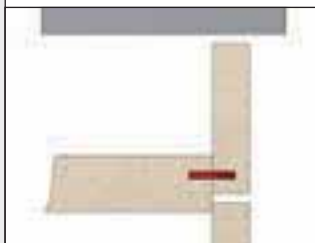
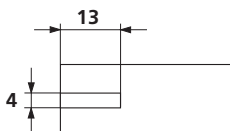


## Simplex Detachable slide-in connector

54 × 23 × 4 mm

p. 57

PUR glue





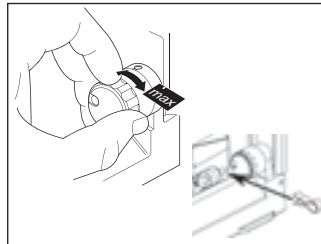
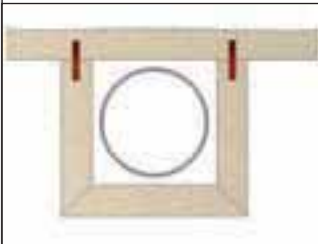
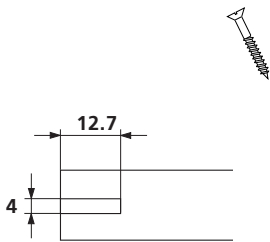
**Standard carbide tipped cutter:**  
 Ø 100 x 4 x 22 mm /  
 Art.No. 132000 / 132106



### Metal Detachable slide-in connector

57.2 x 25.4 x 4 mm

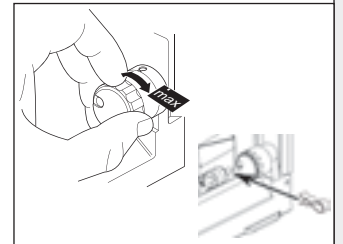
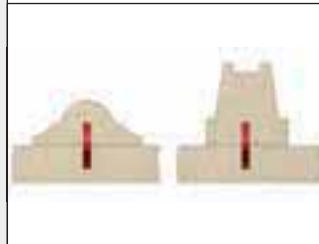
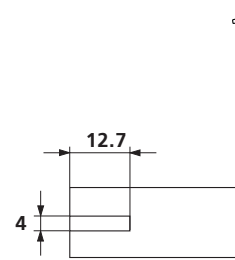
p. 56



### Fast Clip-in connector

56 x 25.4 x 4 mm

p. 56

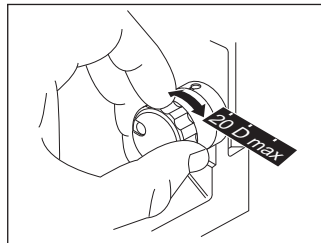
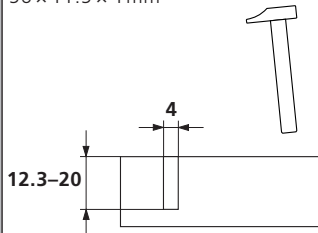


### E20 Self-clamping element

p. 55

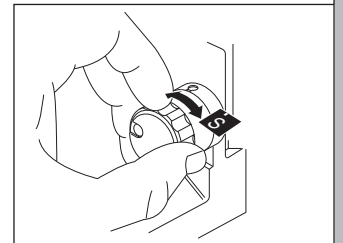
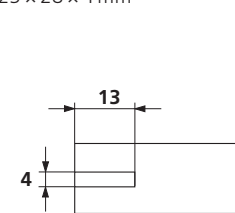
#### E20-L

56 x 11.5 x 4 mm



#### E20-H

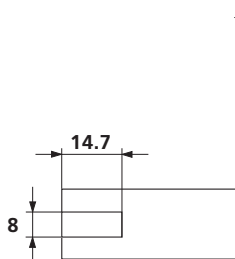
23 x 28 x 4 mm



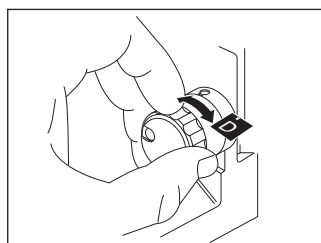
### Clamex S Connector with screw insertion

66 x 29 x 8 mm

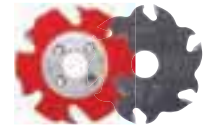
p. 54



**Carbide tipped cutter with reversible blades:**  
 Ø 100 x 8 x 22 mm  
 Art.No. 132108



# Versatile application with 15 joining elements ...



**Only one tool** for 13\* different joining elements  
– **without tool change**

Lamello-System

**Original wooden biscuits**  
20\*



**E20-L\***

Self-clamping element



10\*



**E20-H\***

Self-clamping element



0\*



**K20\***

Clamping element



**The large wooden Lamello biscuit S6\***



**Simplex\***

Slide-in connector to be glued with PUR glue



**Metal\***

Detachable slide-in connector with screw insertion



**C20\***

Solid surface element



**C10\***

Solid surface element



**Champ\***

Slide-in connector to be glued with PUR glue



**Fast\***

Detachable clip-in connector with self-cutting edges



**Clamex S-18**

Detachable connector with screw insertion  
Cutter with reversible carbide blades 8 mm



**The small wooden Lamello biscuits H9**

Carbide tipped cutter 3 mm



## ... and 4 additional applications



**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 Minispot patches size 2



**Cut expansion gaps**

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



**Trimming**

Trimming of solid wood or plastic edges, Edge trimming unit Nova 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

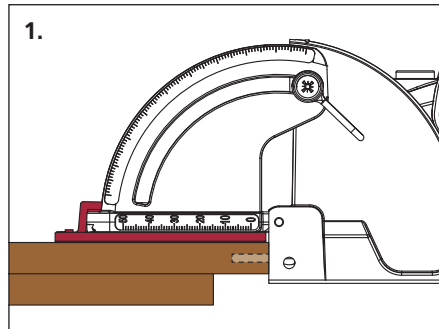
### Swivelling front with fixed rotational point

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

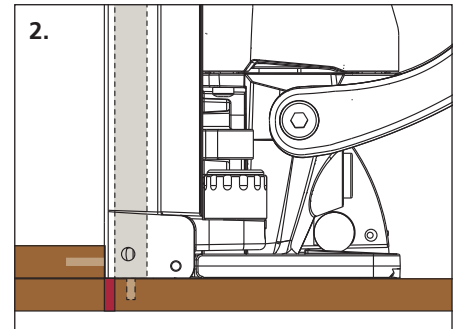
Allows alternating the application surface from the swivelling front **1.** to the baseplate **2.**, especially important when cutting thin dividing panel connections



- **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



Lamello-System



Swivelling front and base plate are flush



Central lock

## Versatile applications



Joint with biscuits



Joint with Clamex S



Groove for Duplex-hinges



## 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 <sup>-1</sup>
Cutter .....	Carbide tipped cutter Ø 100 x 4 x 22
Teeth .....	Z6 (3+3) with reversing teeth
Cutting depth max. ....	20 mm
Weight .....	3.1 kg

## Classic X

## Art.No.

in systainer .....	<b>101600S</b>
in carton .....	<b>101600K</b>

## 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 92 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 .....	1050 W
Voltage .....	230 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.. **101500DSMMW**

## Kit contains

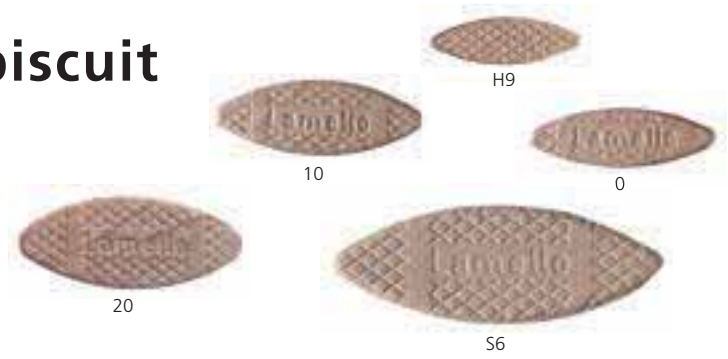
Top 21 with:	– spacer 4 mm
– carbide tipped cutter	– extractor stub 36 mm
– suction stub 23 mm	– dust bag
– stop square	– set of tools

Accessories can be found from page 92 onwards



# The original wooden biscuit

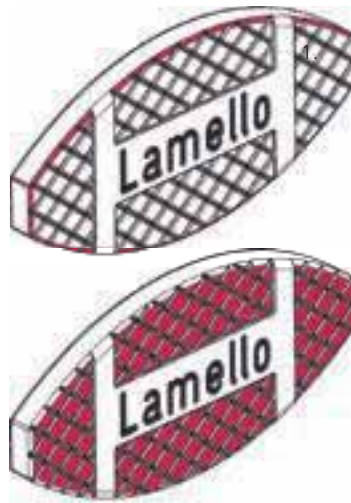
The Original  
Swiss production  
Swiss timber  
Lamello quality



© 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	Size	Quantity	Art.No.
Size 20	56 x 23 x 4 mm	1000 pieces	144020
Size 10	53 x 19 x 4 mm	1000 pieces	144010
Size 0	47 x 15 x 4 mm	1000 pieces	144000
Size S6	85 x 30 x 4 mm	1000 pieces	144006
Size H9	38 x 12 x 3 mm	1000 pieces	144009
Size 20, 10, 0	assorted	1000 pieces (500, 250, 250)	144030
Size 20, 10, 0	assorted	400 pieces (240, 80, 80)	144032

Wood biscuits blister			
Size	Size	Quantity	Art.No.
Size 20	56 x 23 x 4 mm	80 pieces	144520
Size 10	53 x 19 x 4 mm	80 pieces	144510
Size 0	47 x 15 x 4 mm	80 pieces	144500
Size S6	85 x 30 x 4 mm	40 pieces	144506
Size H9	38 x 12 x 3 mm	250 pieces	144509

Installation of wooden biscuits with cutter Ø 100 x 4 x 22 mm (standard cutter)  
Installation of H9 wooden biscuits with cutter Ø 78 x 3 x 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

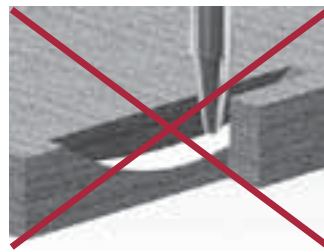
## Clamping Set

### 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. KS .....with plastic nozzle..... **175500**

Minicol Mod. M .....with metal nozzle..... **175550**

### Glue applicator Servicol

Art.No.

Servicol Mod. KS .....with plastic nozzle..... **175560**

Servicol Mod. M .....with metal nozzle..... **175570**

Servicol Mod. X .....with pointed nozzle ..... **175580**



### Nozzles for Minicol and Servicol

Art.No.

plastic nozzle ..... **335511**

metal nozzle ..... **285512**

pointed nozzle ..... **335522**

metal nozzle .....for 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**

### Clamping Set

Art.No.

20 cm ..... 1 piece of clamps ..... **175021**

8 m belt

4 pieces profile sections 20 cm

60 cm ..... 2 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 piece .....without belt..... **175060**

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

Per meter .....m<sup>1</sup> ..... **335000**

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

Profile sections ..... 4 pieces .....length 12 cm ..... **175401**

length 40 cm ..... **175402**

length 60 cm ..... **175403**

# Clamex S connector

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



Lamello-System



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

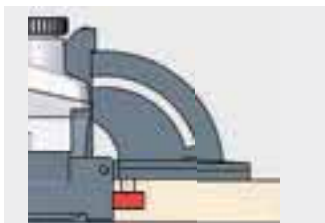
Size.....	66 x 29 x 8 mm
Cutter.....	Ø 100 x 8 x 22
Material of connector.....	fibreglass reinforced plastic
Material of lever.....	zinc die cast
Installation tolerance.....	longitudinal ± 1.0 mm (max. ± 1.25 mm)

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

Accessories can be found from page 92 onwards

## How it works

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



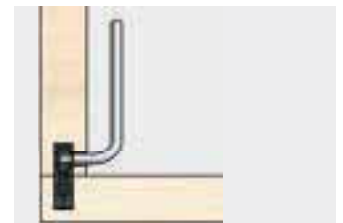
1. Cut groove, 8 mm



2. Drill hole 6 mm



3. Screw in the Clamex S



4. Connect, finished!

# E20

The self-clamping element



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 x 11.5 x 4 mm
Size E20-H .....	23 x 28 x 4 mm
Cutter .....	Ø 100 x 4 x 22
Material .....	Fibreglass reinforced plastic

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

## How it works

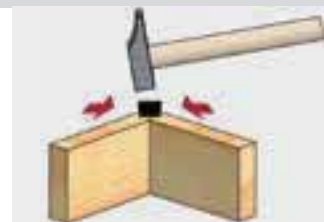
### E20-H



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!



## Fast

Detachable clip-in connector with self-cutting edges



### Advantages and properties

- For workpieces such as covers, blinds or profiles **to clip-in**
  - Fast installation, no waiting time before continuing
  - Clip-in and detachable, **without lateral movement** (sliding)
- With installation tool and clip for cutting depth

Cutter	Size (mm)	Quantity	Art.No.
Ø 100 x 4 x 22 .....	56 x 12.7 x 4 .....	50 pair .....	<b>145120</b>



## Metal

Heavy duty detachable slide-in connector with screw insertion



### Advantages and properties

- For **detachable constructions** such as shelves, covers or as glueing aid
  - With **integrated stop** for blocking one side if required
  - **Adjustable joint pressure** due to screws
- Fast installation, no waiting time before continuing the work
- With 83 screws of each size 3 x 13 and 3 x 25, clip for cutting depth

Cutter	Size (mm)	Quantity	Art.No.
Ø 100 x 4 x 22 .....	57.2 x 12.7 x 4 .....	40 pair .....	<b>145115</b>



## Champ

Slide-in connector to be glued with PUR glue



### Advantages and properties

- **Glueing aid** for furniture when assembling mitres and corners
  - **Glue work pieces** with various shapes **without clamps**
  - Ideal for wood and all wood composites
- With installation template

Cutter	Size (mm)	Quantity	Art.No.
Ø 100 x 4 x 22 .....	64 x 13 x 4 .....	50 pair .....	<b>145110</b>



## 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 x 4 x 22 .....	60 x 24 x 4.5 .....	80 pieces .....	<b>145001</b>
		250 pieces .....	<b>145000</b>





## 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.
C20 ...Ø 100 x 4 x 22 .....	60 x 23 x 4 .....	250 pieces .....	<b>145010</b>
C10 ...Ø 100 x 4 x 22 .....	53 x 19 x 4 .....	300 pieces .....	<b>145012</b>



## Simplex

Detachable slide-in connector

### Advantages and properties

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

Install with insertion tool and two-part epoxy adhesive.

Made of aluminum



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



# Invis Mx2

«I am impressed with the strength of this invisible connection. Even after we have repeatedly opened and closed the joint.»

Walter Fankhauser, Production Manager at Röthlisberger, Gohl Branch, in Emmental, 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

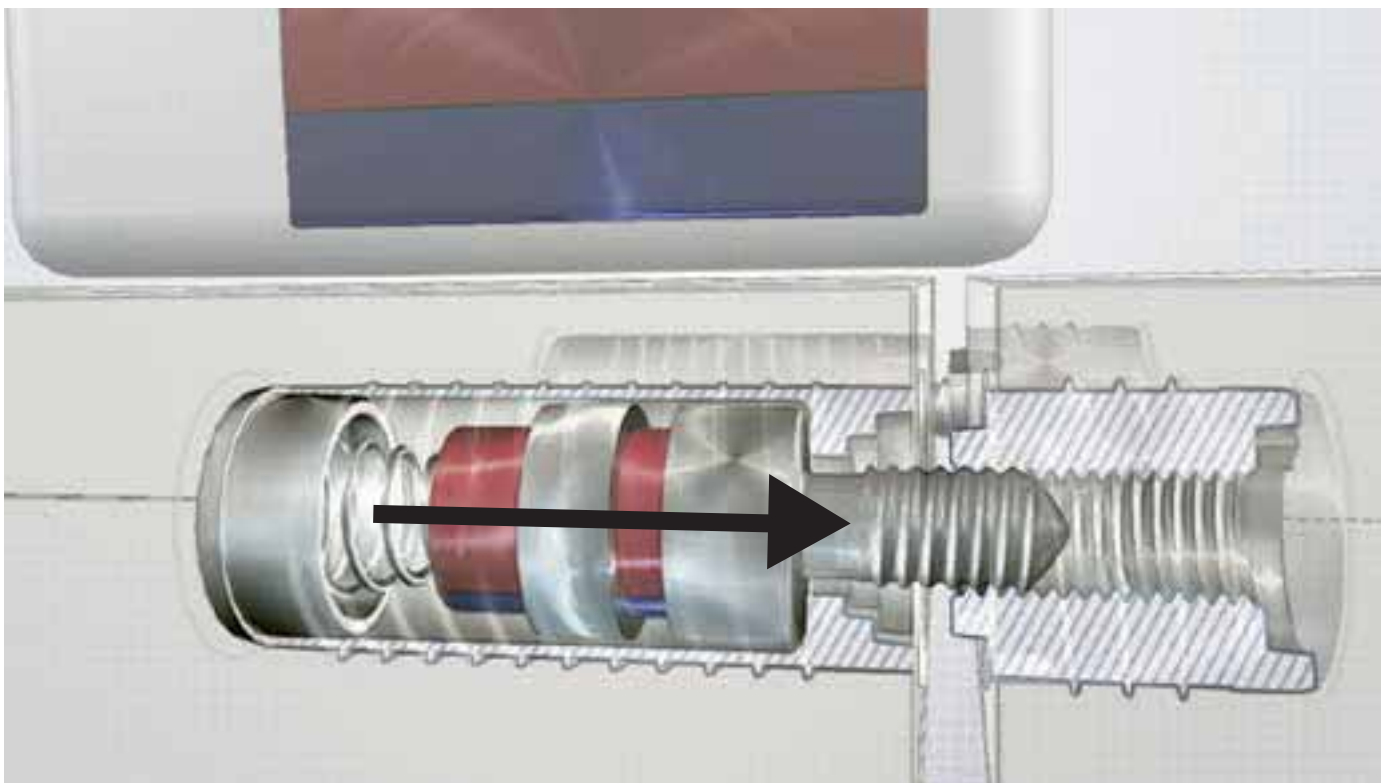
Invis MX2-System

**Powerful mechanical connections**

**Detachable within seconds**

**Completely invisible**

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



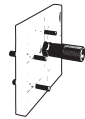
The MiniMag Mx2 drive opens or closes the connection  
The speed of the cordless drill must be 1200-1500 rpm

# Invis Mx2

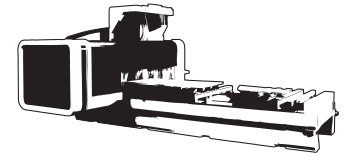
The unique invisible connection for highest demands on aesthetics, stability and productivity



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



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

Kits	Art.No.
<b>Invis Mx2 Starter Kit</b> (in systainer) .....	<b>6100300</b>
– MiniMagMx2	
– 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	
<b>MiniMag Mx2 Kit</b> (in cardboard box) .....	<b>6100301</b>
MiniMag Mx2, screw bit	

Invis Mx2 connector set	Quantity	Art.No.
with 14 mm stud .....	20 pieces .....	<b>6012300</b>
with 30 mm stud .....	20 pieces .....	<b>6012301</b>
with 14mm stud incl. insertion jig .....	20 pieces .....	<b>6012333</b>
35 mm Invis Mx2 connector .....	20 pieces .....	<b>6012317</b>
14 mm stud .....	20 pieces .....	<b>6012312</b>
30 mm stud .....	20 pieces .....	<b>6012309</b>
Centre-wall stud for 10-30 mm thickness 10 pieces .....		<b>6012208</b>
Screw bit .....	1 piece .....	<b>6112205</b>
Flexible shaft for MiniMagMx2 .....	1 piece .....	<b>6100204</b>
Invis Mx2 insertion jig for studs 14mm 1 piece .....		<b>6112333</b>

## 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**

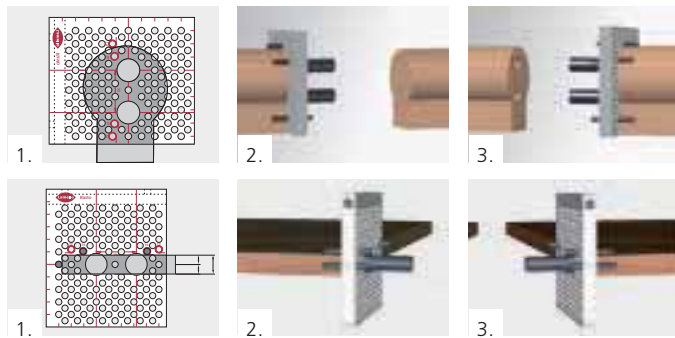


# Rasto

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



Invis Mx2-System



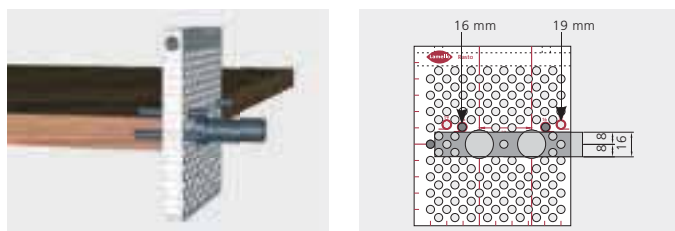
## How Rasto works

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

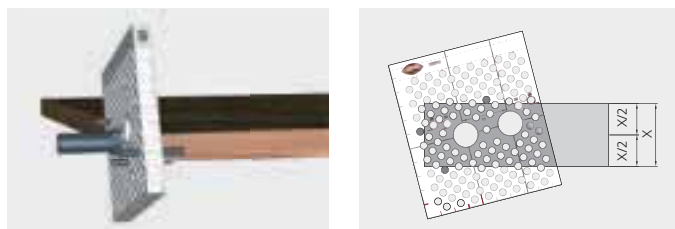
The Rasto concept uses positioning pins as stops instead of measuring the hole position. The holes always align perfectly because the position of the pins is not changed when drilling the second workpiece. The transparency allows for easy set up on the work piece or aligning to a pencil mark. Due to 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 32mm hole rows
- Ideal for exact drilling of holes for Invis Mx elements and studs



Holes in the centre of 16 and 19 mm panels

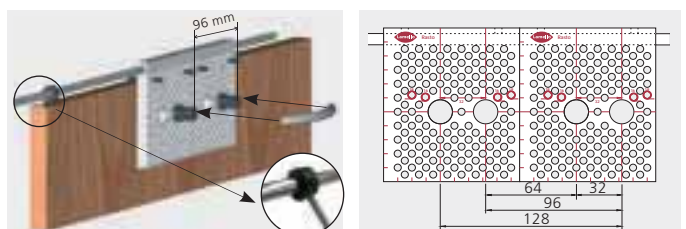


Holes in the centre of any workpiece thickness

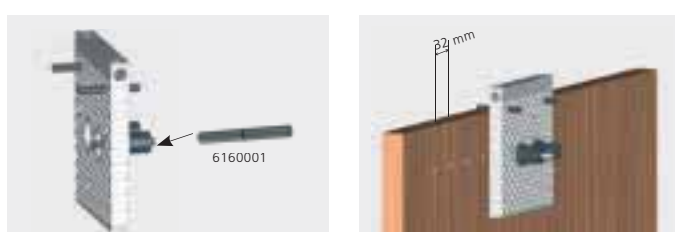


Mitre connections

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 2x 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 ..... **6560450**

Invis Mx2 spacer for Rasto ..... **6112331**

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

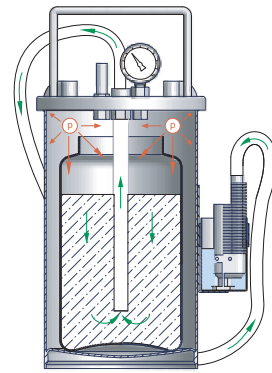




# Glue applicators

## LK 3, LK 5, LK 10

Glue applicator for water soluble glues



Nozzles for grooves



Nozzles for surfaces



Pointed nozzle



Nozzles for edges



Kit



LK 3



LK 5



LK 10

### Advantages and properties

- **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 expandible**

### Technical data

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

### Typ

Typ	Art.No.
LK 3.....	<b>502003</b>
LK 5.....	<b>502005</b>
LK 10.....	<b>502010</b>

### 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 96 onwards



# Glue pistols

## LK 0, LK 100

Glue pistols for various applications



LK 100 pneumatic



LK 0 manual

### Advantages and properties

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

Version	Application	Art.No.
LK 0.....	for manual operation .....	<b>512200</b>
LK 100.....	for pneumatic external operation.....	<b>512210</b>

Accessories can be found from page 96 onwards



LK 0



LK 100

# 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

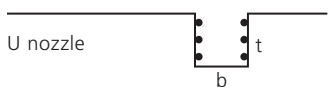
	Size	Art.No.
Brush	40 mm	512404
	60 mm	512406
Adjustable nozzle	10–22 mm	512422
	23–42 mm	512442
	40–62 mm	512462
Adjustable edge roller	10–46 mm	512446
Pointed nozzle		512451
Round nozzle	5/4 x 30 mm	512454
Adjustable guide	0–25 mm for pointed / round nozzle	512425



for grooves



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





## for surfaces

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

## for joints



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

\* 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, 8, 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 <sup>-1</sup>
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 92 onwards



# G2A

The Minispot grooving machine to cut grooves for patches size 2 and 8



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 <sup>-1</sup>
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 92 onwards



# Patchmaker 2

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



**Step 1:**  
Wood piece 72 x 25 x 10 mm



**Step 2:**  
Cut profile



**Step 3:**  
Cut profile



**Step 4:**  
Cut off the wood patch

## 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

## Technical data

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

## Patchmaker 2

in carton ..... **Art.No. 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 92 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 <sup>-1</sup>
Tool .....	Cutter head with 3 carbide reversing blades 45 x 12 x 1.5 mm
Cutting width .....	45 mm
Cutting height .....	3 mm
Weight.....	4.1 kg

## Plano 45 S2

Art.No.

in carton ..... **111851K**

## Kit contains

Machine with:  
set of tools, manual

Accessories can be found from page 92 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 <sup>1</sup>	15 0002 K100	15 0002*	15 0004	15 0020*
Spruce nat. <sup>2</sup>	15 0102 K100	15 0102*		15 0120
Nordic spruce <sup>3</sup>	15 0202 K100	15 0202*		15 0220*
Spruce, not glued	15 0002U K100	15 0002U		15 0020U
Pine <sup>1</sup>	15 0302 K100	15 0302*		15 0320
Nordic pine <sup>3</sup>	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. <sup>2</sup>	15 0102I		
Nordic spruce <sup>3</sup>	15 0202I		15 0220I
Pine <sup>3</sup>	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 x 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		250 mm		50	15 0022L25
				500 mm	50	15 0022L50
		85 mm			220	15 0020L08
Spruce-fir	20	85 mm			220	15 0020L08
			250 mm		45	15 0020L25
				500 mm	45	15 0020L50
Pine	2		250 mm		100	15 0302L25
				500 mm	100	15 0302L50
		85 mm			220	15 5220L08
Larch, Siberian	20	85 mm			220	15 5220L08
			250 mm		45	15 5220L25
				500 mm	45	15 5220L50



Industrial package		Length**		Quantity	Art.No.
Wood species	Size	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

«The Tanga Delta is the perfect machine for window replacement since it is fast, robust and reliable.

A guaranteed clean job for the customer! »

Pascal Scheffer, Installer of Hefesta-Fensterbau Heil GmbH in Steinwenden, 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 1600 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 1600 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

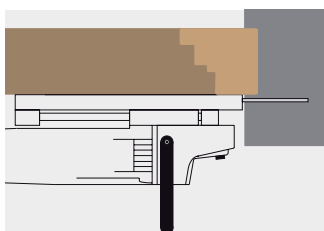
The ideal machine for window replacement.



Tanga Delta S2

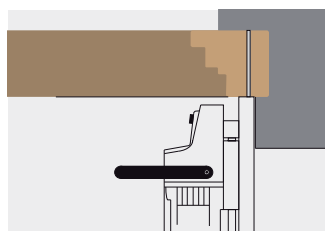
Tanga Delta H

## 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<sup>-1</sup>

Cutting height ..... 6 mm (groove width)

Weight..... 5.4 kg

### Tanga Delta S2

Diamond blade ..... Ø 180 x 2.6 x 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 x 2.4 x 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 92 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 .....	1050 W
Voltage .....	230 V
Speed .....	10'000 min <sup>-1</sup>
Carbide tipped cutter .....	Z20, Ø 100 x 2.4 x 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 92 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  $\varnothing$  6mm and 8mm.

### Variable tool opening



25 mm or 34 mm depending on the cutter size

### Large base plate



The large base plate  $\varnothing$  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

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



Flush trim or round edges

## 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



Dust cover



Rounding 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

	<b>Profila E plus</b>	<b>Profila Pro plus</b>
Power .....	740 W	400 W
Voltage .....	230 V	
Speed .....	25'000 min <sup>-1</sup>	22'000 min <sup>-1</sup>
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 92 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 <sup>-1</sup>
Tool .....	Cutter head with 3 carbide reversing blades, 45 x 12 x 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

<b>Cantex Ergo</b>	<b>Art.No.</b>
.....	<b>111857</b>

## Kit contains

Machine with:  
set of tools, manual

<b>Accessories</b>	<b>Art.No.</b>
<b>Parallel guide stop for Cantex Ergo / S2</b> .....	<b>121290</b>

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 92 onwards

# Accessories / Spare Parts









125344

<b>P-System drill jig</b>	<b>Art.No.</b>
P-System drill jig incl drill, from 22.5° ..... for all Clamex P fittings (P-10, P-14, P Medius 14/10)	<b>125344</b>



125345

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



131506

<b>Drill</b>	<b>Art.No.</b>
Spiral drill Ø 6 mm with centering point .....	<b>131506</b>



251993

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

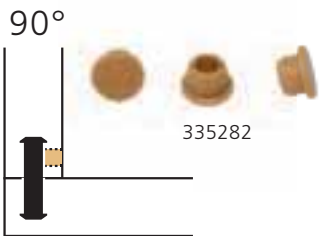


271945

<b>Allen key</b>	<b>Art.No.</b>
4 mm, 75 x 55 mm .....	<b>271945</b>
4 mm, 120 x 50 mm .....	<b>271945A</b>

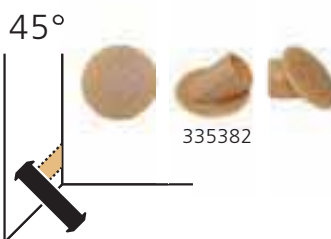


<b>Systainer T-Loc Size II empty</b>	<b>Art.No.</b>
incl. 2 separator .....	<b>331565V</b>



335282

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



335382

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





125500

<b>Divario P-18 Installation tool</b>	<b>Art.No.</b>
Divario P-18 Installation tool for fixing the Divario in the workpiece .....	<b>125500</b>



125510

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



125511

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



145546

<b>Divario P-18 Positioning pins</b>	<b>Art.No.</b>
For furniture without backs as a stop when inserting the work piece.....	<b>145546</b>



125520

<b>Divario P-18 Installation tool for positioning pins</b>	<b>Art.No.</b>
Installation tool for the insertion of the positioning pins.....	<b>125520</b>



145430

<b>Tenso P-14 Preload tool</b>	<b>Art.No.</b>
Tool to pre-load the Tenso P-14 .....	<b>145430</b>



132140

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



132141

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

# Accessories / Lamello-System



132000

<b>Carbide tipped groove cutter, Ø 100 x 4 x 22 mm</b>	<b>Art.No.</b>
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



132106

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



132001

<b>Carbide tipped groove cutter with reversible blades, Ø 100 x 4 x 22 mm</b>	<b>Art.No.</b>
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
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



132130

<b>Carbide tipped groove cutter with reversible blades, Ø 100 x 8 x 22 mm (Clamex S connector)</b>	<b>Art.No.</b>
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



132108

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



251057

<b>Edge trimming unit Lamello Nova</b>	<b>Art.No.</b>
For trimming of projecting wooden .....	for all biscuit joiner ..... 121280
	and plastic edges 18 mm



121280

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



132350

<b>Accessories for saw blades</b>	<b>Art.No.</b>
Spacer, 40 x 20 x 1mm with screw holes.....	for Zeta, Top 20, Top 21, Classic.. 322510
Flange M8 .....	for Zeta, Classic..... 252502
Flange M10.....	only for Classic..... 252504

## Applications of saw blades for cutting expansions gap

Expansion gap width	8 mm	9 mm	10 mm	11 mm	12 mm
Classic C2, C3, 3S Pa, Zeta					
<b>Height adjustment</b>	-2	-1	±0	+1	+2
Top 20, S2, S3, S4 Top 21	Height adjustment +				

# Accessories / Lamello-System



<b>Clamex S drill jig 30° – 150°</b>		<b>Art.No.</b>
Drill jig (60 mm) incl. drill for Clamex S .....		<b>125240</b>



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



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





# Accessories / Repairing



<b>Carbide tipped cutters for Lamello wood repair machines</b>		<b>Art.No.</b>
100 x 8 x 22 mm, Z4, 4 screw holes (fits all Lamello biscuit joiners)	for Minispot patches	<b>132217</b>
	<b>Size 2</b>	
100 x 8 x 22 mm, Z4	for Minispot patches	<b>132213</b>
	<b>Size 8</b>	
100 x 15 x 22 mm, Z4	for Minispot patches	<b>132209</b>
	<b>Size 22</b>	
100 x 15 x 22 mm, Z4	for Minispot patches	<b>132208</b>
	<b>Size 4</b>	
100 x 20 x 22 mm, Z4 (our recommendation)	for Minispot patches	<b>132222</b>
	<b>Size 20</b>	
100 x 20 x 22 mm, Z2 with profile blades	<b>Size 20</b>	<b>132220</b>
Profile blades for Art.No. 132220	<b>Size 20</b>	<b>132221</b>



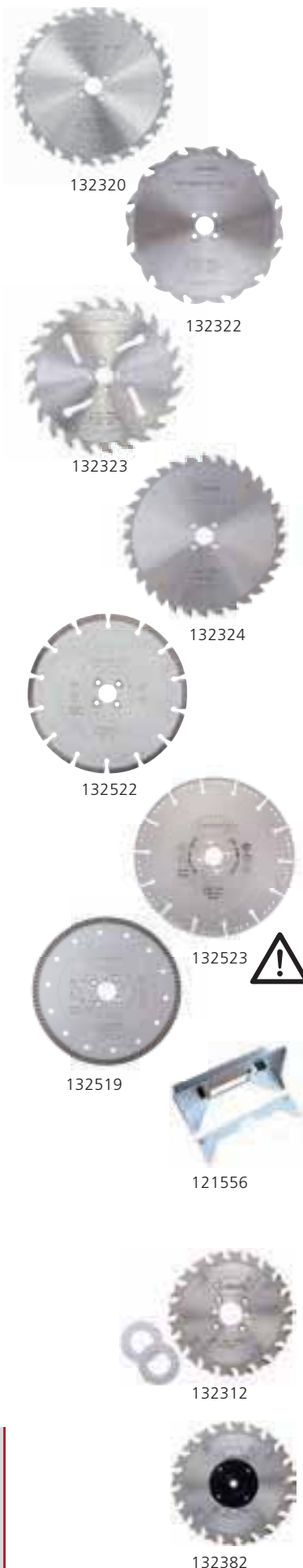
<b>Carbide tipped saw blade Z20</b>		<b>Art.No.</b>
Ø 100 x 2.4 x 22 mm	for Patchmaker 2, Patchmaker 20, Variocut	<b>132301</b>
Ø 100 x 2.4 x 22 mm with 2 spacers	for Patchmaker 2, Patchmaker 20, Variocut	<b>132350</b>



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

<b>Carbide tipped profile cutter Z2+2</b>		<b>Art.No.</b>
Ø 80 x 29 x 20 mm	for Patchmaker 20	
	for 1 x Size 20	<b>131620</b>
	for 2 x Size 2	<b>131621</b>

# Accessories / Window replacement



## Carbide tipped saw blades

Ø 200 x 2.4 x 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 M4x8 for saw blades		352408F

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

Ø 180 x 2.4 x 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 x 2.4 x 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 x 2.6 x 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 x 2.6 x 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.
Rabet stop for Tanga	for Tanga 180, 1811 S, Swiss	251525
	for Tanga Delta H, S2	121556
Base plate for corners	for Tanga Delta H, S2	321548
2 rolls for base plate	for Tanga Delta H, S2	251554

## Carbide tipped saw blades

Ø 120 x 2.4 x 22 mm		for 3S Pa	Art.No.
Z20, with 2 spacers			132312
Z20, with flange M8			132382

Ø 100 x 2.4 x 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		252502
Spacer	40 x 22 x 1 mm for 3S Pa	322501
	40 x 22 x 0.5 mm for 3S 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 ..... 251968

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 x 12 x 1.5 mm, angle 55° ..... for Cantex Ergo, Plano 45 ..... 131822

(from 2006)

45 x 12 x 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° ..... 131981

# Suction accessories



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



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



# Miscellaneous

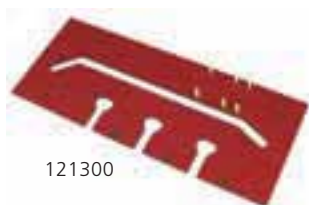


<b>Air wedge</b>	<b>Art.No.</b>
Set with 4 air wedges.....	<b>060003</b>

### Advantages and properties

The inflatable installation cushion works like an adjustable wedge

- Installation of window and door frames
- Fitting, and unhinging doors
- Lifting, pressing and setting workpieces
- Load capacity: max. 100 kg / pcs., Joint width: 2–50 mm



121300



131305

<b>Worktop jig</b>	<b>Art.No.</b>
Standard jig ..... for worktops up to 650 mm width.....	<b>121300</b>
Spare pegs for jig ..... for worktop jig (6 pieces).....	<b>121312</b>

Carbide tipped cutters	Size	Shaft	Art.No.
for worktop jig with reversing teeth .....	Ø 12.7 x 50 mm.....	Ø 12 mm .....	<b>131305</b>
	total length 100 mm		

<b>Spare parts for cutter 131305</b>	<b>Art.No.</b>
Carbide-Reversing blades .....10 pieces .....	<b>131310</b>
Set screw M2½ x 2½.....for reversible blades 131310 .....	<b>352202</b>

### Advantages and properties

For precise cutting of the recess necessary to join worktops / countertops in 90° or 2 x 45° angles


- Water resistant, heat and light resistant
- To be used with a router, guide bush Ø 30 mm, cutter shank 12.7 mm



135017

<b>LEPUS</b>	<b>Art.No.</b>
Finishing disc, fine (Grain 500.....100 x 50 x 20 mm .....	<b>135017</b>
Grinding disc, rough (Grain 60 .....100 x 50 x 20 mm .....	<b>135032</b>



The background of the entire page is a photograph of several Lamello biscuits. One biscuit in the foreground is in sharp focus, showing the embossed 'Lamello' logo and a grid pattern. Other biscuits are visible in the background, some on a wooden surface and others on a light-colored surface. The overall lighting is soft and natural.

The complete spare parts  
list is on our website.

**[www.lamello.com](http://www.lamello.com)**

We are also happy  
to send you the  
desired documentation  
on request.

Spare parts and accessories availability  
guaranteed for at least 10 years

# Joining with the **P-System**

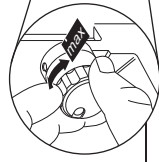






# P-System

www.lamello.com



# P-System



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

### Clamex P-14

**Detachable connecting fitting**  
**Size** 66 x 27 x 9.7 mm  
**Tensile strength**  
 Particle board: ~ 800 N  
 Beech: ~ 1'000 N

Art.No.
80 pairs
300 pairs
1000 pairs

### 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
300 pairs
1000 pairs

### Clamex P Medius 14 / 10

**Detachable connecting fitting for centre panels**  
**Size** 66 x 13.5 x 9.7 mm  
**Tensile strength**  
 Particle board: ~ 700 N  
 Beech: ~ 900 N

Art.No.
80 pairs
300 pairs
1000 pairs

### 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	Art.No.
80 pieces	145301
300 pieces	145302
1000 pieces	145303

Bisco P-10	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** ~ 150 N  
 per connector:  
**Tenso P-14** Art.No. 145415  
 80 pairs 145415  
 300 pairs 145425  
 1000 pairs 145435

Preload clip	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  
**Tensile strength** Ø8 x 9 mm  
 all materials: ~ 600 N

Art.No.
80 pairs
300 pairs
1000 pairs



# Lamello-System

www.lamello.com



**Carbide tipped groove cutter** Art.No. 132000  
Ø 100 x 4 x 22 mm  
for Zeta, Top, Classic  
for Classic 132106

## original wooden biscuit



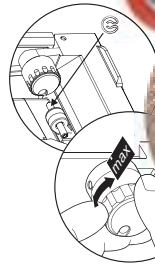
**0** Art.No. 144000  
1000 pieces  
Size 47 x 15 x 4 mm



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

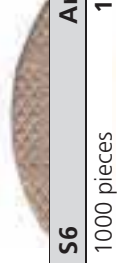


**20** Art.No. 144020  
1000 pieces  
Size 56 x 23 x 4 mm



**H9\*\*** Art.No. 144009  
1000 pieces  
Size 38 x 12 x 3 mm

\*\* Carbide tipped groove cutter  
Ø 78 x 3 x 22 mm, Art.No. 132009



**S6** Art.No. 144006  
1000 pieces  
Size 85 x 30 x 4 mm

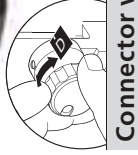
## E20-L



**Self-clamping element**  
Size 56 x 11.5 x 4 mm

Art.No. 145022  
80 pieces  
Art.No. 145025  
400 pieces  
Art.No. 145027  
1200 pieces

## Clamex S-18\*



**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

Art.No. 145231  
18 pairs  
Art.No. 145236  
80 pairs  
Art.No. 145241  
300 pairs

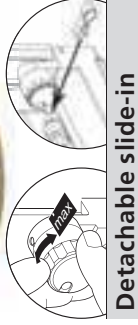
## Fast



**Clip-in connector**  
Size 56 x 25.4 x 4 mm

Art.No. 145120  
50 pairs

## Metal



**Detachable slide-in connector**  
Size 57.2 x 25.4 x 4 mm

Art.No. 145115  
40 pairs

## Champ



**Slide-in connector**  
Size 64 x 24 x 4 mm

Art.No. 145110  
50 pairs

## E20-H



**Self-clamping element**  
Size 23 x 28 x 4 mm

Art.No. 145021  
80 pieces  
Art.No. 145026  
400 pieces  
Art.No. 145028  
1200 pieces

## K20



**Clamping element**  
Size 60 x 24 x 4.5 mm

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

## C20 / C10



**Biscuit for solid surface**  
C20, Size 60 x 23 x 4 mm  
C10, Size 53 x 19 x 4 mm

Art.No. 145010  
C20, 250 pieces  
Art.No. 145012  
C10, 300 pieces

## Simplex




**Detachable slide-in connector**  
Size 54 x 23 x 4.1 mm

Art.No. 166101  
50 pairs  
Art.No. 166100  
100 pairs

Subject to modifications and amendments

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A close-up photograph of a wooden joint, likely a corner or T-joint, showing a metal fastener (possibly a bolt or screw) securing the wood. The wood has a light, natural grain. The background is blurred, showing more of the wooden structure.

[www.lamello.com](http://www.lamello.com)

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