Catalogue
2015/2016

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, 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.»
«Our work merges tradition and modernity. Lamello’s innovative ideas meet this standard perfectly.»

Markus Faißt, Manager of Holzwerkstatt Markus Faißt in Hittisau, Austria
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

![How it works diagram]

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**

**Clamex P**
Detachable connecting fitting

**Fast installation**
Inserting instead of screwing or glueing, within seconds and without waiting time means no waiting for adhesive to dry.

**Tenso P**
Self-clamping fitting as glueing aid

**Glueing**
Fixed joints of two workpieces

**Divario P**
Self-clamping, invisible fitting for slide insertion

**Sliding insertion**
Insertion between two fixed sides or shelves via a guiding groove.
**Strong and form-locking**

Form-locking anchorage across large surface areas ensures optimum tensile strength even with weaker materials.

**Lateral tolerance in P-System groove**

The P-System allows both workpieces to be aligned perfectly flush.

**Shallow cutting depth**

Minimal cutting depth with maximum tensile strength – ideal for connections with panels.

**No twisting**

The positioning pins prevent twisting without the need for additional dowels.

---

**Aesthetic**

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

**High clamping force**

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

**Stackable**

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

**Versatile**

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

---

**Invisible**

No visible fitting.

**High clamping force**

Allows for perfect alignment and clamps the workpieces ~ 15 kg.

**Stackable**

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

**Flexible**

The off-set groove allows center panel connections (>19mm) as well as joining varying panel thicknesses.

---

**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. Drill holes in the surface are possible with CNC without angle aggregates (eg. Nesting machines).

**Assemble by sliding**

Partially routed guiding groove for completely invisible furniture joints.
**Clamex P-14**
Detachable connecting fitting

**Technical data**

<table>
<thead>
<tr>
<th>Size</th>
<th>66 x 27 x 9.7 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutter</td>
<td>Ø 100.4 x 7 x 22</td>
</tr>
<tr>
<td>Material of connector</td>
<td>fibreglass reinforced plastic</td>
</tr>
<tr>
<td>Material of lever</td>
<td>zinc die cast</td>
</tr>
<tr>
<td>Installation tolerance</td>
<td>longitudinal ± 1 mm</td>
</tr>
</tbody>
</table>

**Tensile strength (N)**

<table>
<thead>
<tr>
<th>Material</th>
<th>Tensile Strength (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDF</td>
<td>~ 900</td>
</tr>
<tr>
<td>Particle board</td>
<td>~ 800</td>
</tr>
<tr>
<td>Beech</td>
<td>~ 1'000</td>
</tr>
</tbody>
</table>

**Art.No.**

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

**Drill jig P-System**: 125344

Accessories can be found from page 90 onwards

---

**Clamex P-10**
Detachable connecting fitting

**Technical data**

<table>
<thead>
<tr>
<th>Size</th>
<th>52 x 19 x 9.7 mm</th>
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<tbody>
<tr>
<td>Cutter</td>
<td>Ø 100.4 x 7 x 22</td>
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<tr>
<td>Material of connector</td>
<td>fibreglass reinforced plastic</td>
</tr>
<tr>
<td>Material of lever</td>
<td>zinc die cast</td>
</tr>
<tr>
<td>Installation tolerance</td>
<td>longitudinal ± 0.5 mm</td>
</tr>
</tbody>
</table>

**Tensile strength (N)**

<table>
<thead>
<tr>
<th>Material</th>
<th>Tensile Strength (N)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDF</td>
<td>~ 600</td>
</tr>
<tr>
<td>Particle board</td>
<td>~ 600</td>
</tr>
<tr>
<td>Beech</td>
<td>~ 900</td>
</tr>
</tbody>
</table>

**Art.No.**

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

**Drill jig P-System**: 125344

Accessories can be found from page 90 onwards
Clamex P-Medius 14/10
Detachable connecting fitting for centre panels

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

Bisco P-10
Aligning element suitable for Clamex P-10

Technical data
Size: ........................................... 66 x 13.5 x 9.7 mm
52 x 7.5 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

Load (N) (19 mm) | Tensile strength (N)
MDF: ~ 700 | ~ 800
Particle board: ~ 550 | ~ 600
Beech: ~ 2400 | ~ 900

Clamex P Medius 14/10
Art.No.
Carton with 80 pairs ............................................................... 145370
Carton with 300 pairs ............................................................... 145371
Carton with 1000 pairs .............................................................. 145357
Drill jig P-System ................................................................. 125344

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
– Lateral tolerance +/- 2mm

Applications of Bisco P
– Separation walls
– Furniture with large depth
– Glueing of work pieces

Technical data
Size Bisco P-14: ......................... 65 x 27 x 7 mm
Size Bisco P-10: ......................... 52 x 19 x 7 mm
Cutter: ........................................... Ø 100.4 x 7 x 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

Accessories can be found from page 90 onwards
**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
- Aesthetic
- High clamping force
- Stackable
- Versatile
- Fast installation
- Strong and form-locking
- Lateral tolerance in P-System groove
- Shallow cutting depth
- No twisting

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

---

**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
- Aesthetic
- High clamping force
- Stackable
- Versatile
- Fast installation
- Strong and form-locking
- Lateral tolerance in P-System groove
- Shallow cutting depth
- 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 Medius 14/10

Clamex P-14

Clamex P-14

Clamex P Medius 14/10

Clamex P-14
P-System fittings

Tenso P-14
Self-clamping fitting as gluing aid

Save time and money!
– No pressure marks and damaged areas on your work piece
– Work pieces are automatically in the correct angle
– Surplus glue can be easily wiped off
– Workpieces can be stacked or moved to temporary storage
  (no waiting time)

Save yourself from:
– Preparing clamps and protectors
– Needing an additional person holding the clamps and protectors
– Waiting time until the clamps can be removed

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

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  Art.No.
Carton with 80 pairs .......................... 145410
Carton with 300 pairs .......................... 145420
Carton with 1000 pairs .......................... 145431

Accessories can be found from page 90 onwards
Tenso P-14 – applications

Furniture manufacturing / Interior fitting

Your advantages with Tenso P-14

Fast gluing 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

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

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

Applications
furniture | shelves | stools | sideboards | wardrobes | show cases | sales counters | separating walls | cladding | face frames etc.
**P-System fittings**

### Divario P-18
Self-clamping, invisible fitting for slide insertion

1. Groove with Zeta P2 / CNC
2. Cut P-System groove
3. Insert Divario P-18
4. Drive in the positioning pin
5. Drill holes Ø 8mm
6. Insert Divario P-18
7. Insert the shelf
8. Clamped invisible joint

#### 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

#### Technical data

<table>
<thead>
<tr>
<th>Half for P-System groove</th>
<th>65 x 16 x 9.7 mm</th>
</tr>
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<tbody>
<tr>
<td>Half for drill holes</td>
<td>Ø 8 x 9 mm, distance 32 mm</td>
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<tr>
<td>Cutter</td>
<td>Ø 100.4 x 7 x 22</td>
</tr>
<tr>
<td>Material</td>
<td>Fibreglass reinforced plastic</td>
</tr>
<tr>
<td>Installation tolerance</td>
<td>Longitudinal ± 1 mm</td>
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</table>

#### Load per fitting (N)

<table>
<thead>
<tr>
<th>19 mm</th>
<th>22 mm</th>
<th>25 mm</th>
<th>30 mm</th>
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<tbody>
<tr>
<td>Particle board</td>
<td>500</td>
<td>600</td>
<td>700</td>
</tr>
<tr>
<td>MDF</td>
<td>600</td>
<td>700</td>
<td>800</td>
</tr>
<tr>
<td>Spruce</td>
<td>800</td>
<td>900</td>
<td>1300</td>
</tr>
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</table>

#### Tensile strength (N)

<table>
<thead>
<tr>
<th>Material</th>
<th>600</th>
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</table>

**Divario P-18**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Carton with 80 pairs</th>
<th>Carton with 300 pairs</th>
<th>Carton with 1000 pairs</th>
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<tbody>
<tr>
<td>145550</td>
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<td>..........................</td>
</tr>
<tr>
<td>145560</td>
<td>..........................</td>
<td>..........................</td>
<td>..........................</td>
</tr>
<tr>
<td>145570</td>
<td>..........................</td>
<td>..........................</td>
<td>..........................</td>
</tr>
</tbody>
</table>

**Divario P-18 Installation tool**

Art.No. 125500 to insert the fittings and drive the positioning pins into the wood

Accessories can be found from page 90 onwards
**Divario P-18 – applications**

**Furniture manufacturing / Interior fitting**

*Your advantages with the 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

---

**Applications**

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

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**Interzum Award**
Zeta P2
The machine for the evolving P-System, saving you time daily! Differentiate your products from the standard!

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

Cut four profile grooves with the Lamello Zeta. Fast and precise by applying on the work piece edge

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

Slide the P-System connectors into the profile groove by hand without tools!

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!

 labour cost
30 – 40 %*

Other cost

*Source: VSSM, Schreinerei-Kennzahlen (Swiss wood working association, economic figures)

Very short setup time for 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
Unique features
Profile groove function

The vertical mechanical drive (VMD) is the core of the machine and the key to the P-System, the new joining system with profile.

During the cutting process the VMD moves the cutter up and down automatically for the profile cut.

- Fast ~ 1 second
- User-friendly
  - triggers the vertical movement automatically
- Optical VMD control
- Safe process using reliable, mechanical low-wear technology
- Switch off the VMD to use the machine as a standard biscuit joiner enabling 20 more applications (see page 44)

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Power</td>
<td>800 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 V</td>
</tr>
<tr>
<td>Speed</td>
<td>9,000 min⁻¹</td>
</tr>
<tr>
<td>Cutter</td>
<td>Carbide tipped profile groove cutter</td>
</tr>
<tr>
<td></td>
<td>Diamond tipped profile groove cutter</td>
</tr>
<tr>
<td></td>
<td>Ø 100 x 7 x 22 mm</td>
</tr>
<tr>
<td>Teeth</td>
<td>Z3</td>
</tr>
<tr>
<td>Cutting depth max.</td>
<td>20 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3.7 kg</td>
</tr>
</tbody>
</table>

Zeta P2-Set

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101402</td>
<td>with carbide tipped profile groove cutter</td>
</tr>
<tr>
<td>101402D</td>
<td>with diamond tipped profile groove cutter</td>
</tr>
</tbody>
</table>

Kit contains

- Zeta P2 with 800 W motor
- P-System cutter 7 mm
- Stop square
- Suction stub 23 mm
- Suction stub 36 mm
- Spacer 4 mm
- Spacer 2 mm
- Tools
- P-System drill jig incl. drill
- P-System angle disk

Accessories can be found from page 90 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 Rassinosse and Pierre Vereecken, directors of Modul 3 in Gembloux, Belgium
Joining with the P-System CNC technology
CNC partners

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

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
   - Program the macro yourself

3. **Suitable angle aggregate**
   - Aggregate sub program

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

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

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

4. **P-System cutting tool**
CNC tools

P-System CNC drill bit

**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

**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*

**P-System CNC cutter arbor 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

Possible combination of CNC machines and Zeta P2

**Positioning pins for Zeta P2**

- **Art.No.**
- **Ø 5 mm, 1 pair** ........................................................................................................ 251048
- **Ø 8 mm, 1 pair** ........................................................................................................ 251066

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. More on page 36
**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

<table>
<thead>
<tr>
<th>Machine with 3 axes</th>
<th>Machine with 3 axes/4 axes</th>
</tr>
</thead>
<tbody>
<tr>
<td>+ 1 P-System cutter</td>
<td>+ Manually adjustable swivelling aggregate</td>
</tr>
<tr>
<td></td>
<td>+ 1 P-System cutter</td>
</tr>
<tr>
<td></td>
<td>+ Several tool changes required for angle cuts, drilling and P-System grooves</td>
</tr>
<tr>
<td></td>
<td>** Tip: drilling can be performed using a manual drill jig **</td>
</tr>
<tr>
<td></td>
<td>** Depending on the brand and model, it may not be possible to process the centre of the surface without an additional angle aggregate **</td>
</tr>
</tbody>
</table>

- **Tip:**

**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
** Machine with 5 axes
+ 1 P-System cutter

** Depending on the brand and model, it may not be possible to process the centre of the surface without an additional angle aggregate

** Machine with 5 axes
+ Angle aggregate
   - E.g. Corner notching aggregate
   - Aggregate for door locks
+ 2 P-System cutters

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 more on page 36

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

For more information, visit: www.lamello.com/p-system-cnc

Positioning pins for Zeta P2
Art.No. 251048 (see page 36)
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

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.

Positioning pin Zeta P2

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 5 mm..</td>
</tr>
<tr>
<td>ø 8 mm..</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 5 mm..</td>
</tr>
</tbody>
</table>

For positioning in the Clamex access hole (5mm) available from autumn 2015

Clamex P-14, element with the lever

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>box with 2’000 pcs 145338</td>
</tr>
</tbody>
</table>

Clamex P-10, element without lever

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>box with 2’000 pcs 145358</td>
</tr>
</tbody>
</table>

Clamex P-10, element Medius

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>box with 2’000 pcs 145369</td>
</tr>
</tbody>
</table>
1. Drill the positioning holes with the CNC, Ø 5 mm / Ø 8 mm

2. Hole pattern of the positioning drill holes

3. Insert the positioning pins in the Zeta P2

4. Position the machine in the drill holes

---

Cutting the groove in the edge

1. Drill the positioning hole with the CNC, Ø 5 mm

2. Insert the positioning clip

3. Insert the positioning clip in the drill hole Ø 5 mm

4. 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
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

S6: 85 x 30 x 4 mm

20, 10, 0
20: 56 x 23 x 4 mm
10: 53 x 19 x 4 mm
0: 47 x 15 x 4 mm

H9: 38 x 12 x 3 mm
Carbide tipped cutter:
Ø 78 x 3 x 22 mm
Art.No. 132009

C10 / C20 Biscuit for solid surface
C20: 60 x 23 x 4 mm
C10: 53 x 19 x 4 mm
Corian glue

K20 Clamping element
60 x 24 x 4.5 mm

Champ Slide-in connector
64 x 26 x 4 mm
PUR glue

Simplex Detachable slide-in connector
54 x 23 x 4 mm
PUR glue
**Lamello-System**

**Invisible connections**

1. **Metal** Detachable slide-in connector
   - Dimensions: 57.2 x 25.4 x 4 mm
2. **Fast** Clip-in connector
   - Dimensions: 56 x 25.4 x 4 mm

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

**E20** Self-clamping element

1. **E20L**
   - Dimensions: 56 x 11.5 x 4 mm
2. **E20H**
   - Dimensions: 23 x 28 x 4 mm

**Duplex** Furniture hinge
- Dimensions: 66 x 29 x 4 mm

**Clamex S** Connector with screw insertion
- Dimensions: 66 x 29 x 8 mm

**Visible connections**

**Standar...**

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

**Self-clamping element**

**E20**
- Dimensions: 66 x 29 x 4 mm

**Clip-in connector**

**Fast**
- Dimensions: 56 x 25.4 x 4 mm

**Detachable slide-in connector**

**Metal**
- Dimensions: 57.2 x 25.4 x 4 mm

**Clamp...**

**Duplex**
- Dimensions: 66 x 29 x 4 mm

**Connector with screw insertion**

**Clamex S**
- Dimensions: 66 x 29 x 8 mm

**Clip-in connector**

**Fast**
- Dimensions: 56 x 25.4 x 4 mm

**Detachable slide-in connector**

**Metal**
- Dimensions: 57.2 x 25.4 x 4 mm
Versatile application with
16 joining elements ...

Only one tool for 14* different joining elements
– without tool change

Original wooden biscuits
20*

10*

0*

The large wooden Lamello biscuit S6*

E20-L*
Self-clamping element

E20-H*
Self-clamping element

K20*
Clamping element

Duplex*
Furniture hinge

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

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

... and 4 additional applications
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

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

2. **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

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 45)
– Multifunctional stop square (see p 45)
– Versatile use, with the possibility for 19 more applications (see p 42 – 43)
– Swivelling front stop 0 – 90° catching at 22.5°, 45°, 67.5°, 90°
– Rotating depth adjuster with 6 standard depths

Technical data
Power ........................................... 780 W
Voltage ........................................ 230 V oder 120 V
Speed ........................................... 10’000 min⁻¹
Cutter ......................................... Carbide tipped cutter Ø 100 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 wooden case ................................................. 101600
in systainer ......................................................... 101600S
in carton ............................................................... 101600K

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

Accessories can be found from page 90 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.

---

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

---

**Top 21**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101500</td>
<td>in wooden case</td>
</tr>
<tr>
<td>101500S</td>
<td>in systainer</td>
</tr>
<tr>
<td>101500WS</td>
<td>in wooden case with carbide reversing blade cutter</td>
</tr>
</tbody>
</table>

**Kit contains**

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

Accessories can be found from page 90 onwards
The original wooden biscuit

The Original
Swiss production
Swiss timber
Lamello quality

Advantages and properties

1. Rounded smooth edges
   – Easy handling and insertion

2. Raised guide rails
   – Perfect fit into groove
   – Low resistance while inserting

3. Recessed & embossed glue surface
   – Accurate glue distribution
   – Easy insertion into groove

Diagonal fiber orientation
   – Excellent breaking strength

Wood biscuits

carton

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 20</td>
<td>56 x 23 x 4 mm</td>
<td>1000 pieces</td>
</tr>
<tr>
<td>Size 10</td>
<td>53 x 19 x 4 mm</td>
<td>1000 pieces</td>
</tr>
<tr>
<td>Size 0</td>
<td>47 x 15 x 4 mm</td>
<td>1000 pieces</td>
</tr>
<tr>
<td>Size S6</td>
<td>85 x 30 x 4 mm</td>
<td>1000 pieces</td>
</tr>
<tr>
<td>Size H9</td>
<td>38 x 12 x 3 mm</td>
<td>1000 pieces</td>
</tr>
<tr>
<td>Size 20, 10, 0 assorted</td>
<td>1000 pieces</td>
<td>144030</td>
</tr>
<tr>
<td></td>
<td>(500, 250, 250)</td>
<td></td>
</tr>
<tr>
<td>Size 20, 10, 0 assorted</td>
<td>400 pieces</td>
<td>144032</td>
</tr>
<tr>
<td></td>
<td>(240, 80, 80)</td>
<td></td>
</tr>
</tbody>
</table>

Wood biscuits

blister

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 20</td>
<td>56 x 23 x 4 mm</td>
<td>80 pieces</td>
</tr>
<tr>
<td>Size 10</td>
<td>53 x 19 x 4 mm</td>
<td>80 pieces</td>
</tr>
<tr>
<td>Size 0</td>
<td>47 x 15 x 4 mm</td>
<td>80 pieces</td>
</tr>
<tr>
<td>Size S6</td>
<td>85 x 30 x 4 mm</td>
<td>40 pieces</td>
</tr>
<tr>
<td>Size H9</td>
<td>38 x 12 x 3 mm</td>
<td>250 pieces</td>
</tr>
</tbody>
</table>

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)
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

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)

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
Clamex S connector

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

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 90 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. Dril hole 6 mm
3. Screw in the Clamex S
4. Connect, finished!
E20
The self-clamping element

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

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

<table>
<thead>
<tr>
<th>E20</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E20-H</td>
<td>80 pieces</td>
<td>145021</td>
</tr>
<tr>
<td></td>
<td>400 pieces</td>
<td>145026</td>
</tr>
<tr>
<td></td>
<td>1200 pieces</td>
<td>145028</td>
</tr>
<tr>
<td>E20-L</td>
<td>80 pieces</td>
<td>145022</td>
</tr>
<tr>
<td></td>
<td>400 pieces</td>
<td>145025</td>
</tr>
<tr>
<td></td>
<td>1200 pieces</td>
<td>145027</td>
</tr>
<tr>
<td>E20-L / E20-H</td>
<td>40 pieces per type</td>
<td>145020</td>
</tr>
</tbody>
</table>

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!
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

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Size (mm)</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>56 x 12.7 x 4</td>
<td>50 pair</td>
<td>145120</td>
</tr>
</tbody>
</table>

Heavy duty detachable slide-in connector with screw insertion

**Advantages and properties**
- For detachable constructions such as shelves, covers or as gluing 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

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Size (mm)</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>57.2 x 12.7 x 4</td>
<td>40 pair</td>
<td>145115</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Size (mm)</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>64 x 13 x 4</td>
<td>50 pair</td>
<td>145110</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Size (mm)</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>60 x 24 x 4.5</td>
<td>80 pieces</td>
<td>145001</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 pieces</td>
<td>145000</td>
</tr>
</tbody>
</table>
**C20 / C10**

Solid surface element

**Advantages and properties**

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

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Size (mm)</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>C20</td>
<td>Ø 100 x 4 x 22</td>
<td>60 x 23 x 4</td>
<td>250 pieces</td>
</tr>
<tr>
<td>C10</td>
<td>Ø 100 x 4 x 22</td>
<td>53 x 19 x 4</td>
<td>300 pieces</td>
</tr>
</tbody>
</table>

**Simplex**

Detachable slide-in connector

**Advantages and properties**

Detachable, two part connector for ceiling panels, screens, shelves and general casegoods. Install with insertion tool and two-part epoxy adhesive. Made of aluminum

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Size (mm)</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>54 x 23 x 4.1</td>
<td>50 pair</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>100 pair</td>
<td>166100</td>
</tr>
</tbody>
</table>

Inserting tool for Simplex (For accurate positioning of Simplex) ............................................. 166110

**Duplex**

Furniture hinge

**Advantages and properties**

Aesthetic detachable hinges in two pieces. Easy cutting with the biscuit joiner. 

**Material**: nickel plated

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Version</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>left</td>
<td>20 pieces</td>
<td>166011</td>
</tr>
<tr>
<td></td>
<td>right</td>
<td>20 pieces</td>
<td>166012</td>
</tr>
<tr>
<td></td>
<td>left and right</td>
<td>10 pieces each</td>
<td>166013</td>
</tr>
</tbody>
</table>
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
Invis Mx2-System

Invis Mx2-System
Joining with the Invis Mx2 System
Magnet-driven connections with an even higher clamping force!

Invisible as if glued, versatile as if screwed!

60% higher clamping force

250 kg clamping force per connector

Even more applications

Powerful mechanical connections
Detachable within seconds
Completely invisible

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

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

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

Drill the hole for the Invis Mx2 connector with …

... the Rasto drill jig or a CNC machine

**Fast and easy installation**

**Save time!**

1. Screw the connector into the pre-drilled hole

2. Screw in the stud vertically using the insertion jig

3. Join and clamp the connection using MiniMag Mx2

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

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

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

**Art.No.**

6100300

**Kits**

- MiniMag Mx2, screw bit
- Flexible shaft for MiniMag Mx2 1 piece
- Invis Mx2 insertion jig for studs 14 mm 1 piece

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

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

**Art.No.**

6100301

**MiniMag Mx2, screw bit**
Clamp
1. Clamp high-gloss painted furniture without causing damage | 2. Easily connect and clamp moulded parts
3. Prepare stairs and handrails in the workshop and connect them quickly on-site

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

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

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

How Rasto works

Drill precise and efficient holes without measuring or marking into any shape!
The Rasto concept uses positioning pins as stops instead of measuring the hole position. The holes always align perfectly because the position of the pins is not changed when drilling the second workpiece. The transparency allows for easy setup 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
### Applications of Rasto

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

### Accessories

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Perforated plate for Rasto drill jig</th>
<th>6160000</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bolt Ø 5 x 40 for Rasto drill jig</td>
<td>6160001</td>
</tr>
<tr>
<td></td>
<td>Drill bush for Rasto drill jig</td>
<td>6100065</td>
</tr>
<tr>
<td></td>
<td>Ø 5 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ø 6 mm</td>
<td>6100056</td>
</tr>
<tr>
<td></td>
<td>Ø 8 mm</td>
<td>6100057</td>
</tr>
<tr>
<td></td>
<td>Ø 10 mm</td>
<td>6100067</td>
</tr>
<tr>
<td></td>
<td>Ø 12 mm</td>
<td>6100058</td>
</tr>
<tr>
<td></td>
<td>Depth adjuster for drill bit for Rasto drill jig:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ø 5 mm</td>
<td>6100059</td>
</tr>
<tr>
<td></td>
<td>Ø 6 mm</td>
<td>6100063</td>
</tr>
<tr>
<td></td>
<td>Ø 8 mm</td>
<td>6100060</td>
</tr>
<tr>
<td></td>
<td>Ø 10 mm</td>
<td>6100064</td>
</tr>
<tr>
<td></td>
<td>Ø 12 mm</td>
<td>6100061</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Wood drill bit with centring tip for Rasto drill jig:</th>
</tr>
</thead>
<tbody>
<tr>
<td>6100160</td>
<td>Ø 5 mm</td>
</tr>
<tr>
<td>6106161</td>
<td>Ø 6 mm</td>
</tr>
<tr>
<td>6108060</td>
<td>Ø 8 mm</td>
</tr>
<tr>
<td>6110162</td>
<td>Ø 10 mm</td>
</tr>
<tr>
<td>6112060</td>
<td>Ø 12 mm</td>
</tr>
<tr>
<td>6160601</td>
<td>500 mm connection rod, two-part</td>
</tr>
<tr>
<td>6560450</td>
<td>Fastening screw</td>
</tr>
<tr>
<td>6112330</td>
<td>Invis Mx2 spacer for Rasto</td>
</tr>
<tr>
<td>6112331</td>
<td>Invis Mx2 insertion bush for studs 14mm</td>
</tr>
</tbody>
</table>

### Kits

**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
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

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

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 90 onwards

Nozzles for grooves
Nozzles for surfaces
Pointed nozzle
Nozzles for edges
Kit
LK 3
LK 5
LK 10
Glue pistols
LK 0, LK 100
Glue pistols for various applications

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

<table>
<thead>
<tr>
<th>Version</th>
<th>Application</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LK 0</td>
<td>for manual operation</td>
<td>512200</td>
</tr>
<tr>
<td>LK 100</td>
<td>for pneumatic external operation</td>
<td>512210</td>
</tr>
</tbody>
</table>

Accessories can be found from page 90 onwards
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

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

### for grooves

<table>
<thead>
<tr>
<th>Size</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U nozzle glue outlets in the groove 4 x 5 mm</td>
<td>513010</td>
</tr>
<tr>
<td>4 x 8 mm</td>
<td>513011</td>
</tr>
</tbody>
</table>
for surfaces

<table>
<thead>
<tr>
<th>Size</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface roller ............................</td>
<td>180 mm with rubber roller</td>
</tr>
<tr>
<td>Replacement roller ..........................</td>
<td>width 180 mm</td>
</tr>
<tr>
<td>Gluing brush ..................................</td>
<td>50 x 35 mm</td>
</tr>
<tr>
<td>Surface nozzle ................................</td>
<td>70 mm</td>
</tr>
<tr>
<td></td>
<td>120 mm</td>
</tr>
<tr>
<td></td>
<td>180 mm</td>
</tr>
</tbody>
</table>

for joints

<table>
<thead>
<tr>
<th>Size</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dowel nozzle ..................................</td>
<td>Ø 6 x 20 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 8 x 25 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 8 x 32 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 3/8” x 30 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 10 x 30 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 12 x 40 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 14 x 40 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 15 x 45 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 16 x 45 mm</td>
</tr>
<tr>
<td>Dowel nozzle, double .......................</td>
<td>Ø * mm, A = 32 mm</td>
</tr>
<tr>
<td>Lamello nozzle ................................</td>
<td>Size 0–20</td>
</tr>
<tr>
<td>Tongue nozzle ..................................</td>
<td>70 x 30 x 4 mm (plastics)</td>
</tr>
</tbody>
</table>

without glue exit holes for individual positioning of the glue holes

| Universal tongue ............................ | 30 x 100 x 4.5 mm  | 512870 |
|                                          | 50 x 110 x 4.5 mm  | 512871 |
| Roller nozzle .................................. | 25 mm  | 512879 |
|                                          | Ø 7 mm  | 512879 |
|                                          | 50 mm  | 512875 |
|                                          | Ø 7 mm  | 512876 |
|                                          | 50 mm heavy duty  | Ø 7 mm  | 512876 |
|                                          | 75 mm  | Ø 9 mm  | 512877 |

* according to your requirements
Repairing

«Quality takes top priority in our company. We have found an expert partner in Lamello. We particularly value the helpful, friendly nature of the Lamello team.»

Ing. Christian Rasner, Site Manager at the laminated wood factory
Bakk. Valentina Kirnbauer, member of the management team at Franz Kirnbauer KG in Prigglitz, Austria
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 lacquered accordingly
**G20 S2**

The Minispot grooving machine to cut grooves for patches sizes 2, 4, 22, 8, 20

---

**Advantages and properties**

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

---

**Technical data**

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

---

**Minispot G20 S2**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>in carton</th>
<th>111750</th>
</tr>
</thead>
</table>

**Kit contains**

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

---

**Accessories**

**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 90 onwards
G2A

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

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

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

Minispot G2A Art.No.
in carton ........................................... 111702

Kit contains
Machine with:
carbide cutter, set of tools, manual

Accessories Art.No.
Milling jig for Minispot patching rods ......................... 121702
85 / 250 / 500 mm
for G20 / G20 S2 / G2A

Accessories can be found from page 90 onwards
Patchmaker 2
The patch-making machine for the manufacture of individual size 2 patches, using your own wood scraps 72 × 25 × 10 mm

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

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

Patchmaker 2 Art.No.
in carton ................................................................. 111600

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

Accessories can be found from page 90 onwards
**Plano 45 S2**

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

---

**Advantages and properties**

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

---

**Technical data**

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

---

**Plano 45 S2**

<table>
<thead>
<tr>
<th>in carton</th>
<th><strong>Art.No.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>111851K</td>
</tr>
</tbody>
</table>

**Kit contains**

- Machine with:
  - set of tools, manual

Accessories can be found from page 90 onwards

---
# Patches

To patch wood defects and damaged areas

<table>
<thead>
<tr>
<th>Profile</th>
<th>Size</th>
<th>Width mm</th>
<th>Height mm</th>
<th>Length mm</th>
<th>Quantity per box</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>2</td>
<td>8</td>
<td>13</td>
<td>69</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20</td>
<td>20</td>
<td>11</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td></td>
<td>20 K</td>
<td>20</td>
<td>17</td>
<td>81</td>
</tr>
<tr>
<td></td>
<td></td>
<td>22</td>
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<td>69</td>
</tr>
<tr>
<td></td>
<td></td>
<td>4</td>
<td>15</td>
<td>20</td>
<td>81</td>
</tr>
</tbody>
</table>

### Sizes
Wood types not listed here are available on request

### Wood species

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Size 2</th>
<th>Size 2</th>
<th>Size 4</th>
<th>Size 20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 pieces</td>
<td>500 pieces</td>
<td>200 pieces</td>
<td>160 pieces</td>
</tr>
<tr>
<td>Spruce-fir¹</td>
<td>15 0002 K100</td>
<td>15 0002*</td>
<td>15 0004</td>
<td>15 0020*</td>
</tr>
<tr>
<td>Spruce nat.²</td>
<td>15 0102 K100</td>
<td>15 0102*</td>
<td>15 0102</td>
<td>15 0120</td>
</tr>
<tr>
<td>Nordic spruce³</td>
<td>15 0202 K100</td>
<td>15 0202*</td>
<td>15 0202</td>
<td>15 0220*</td>
</tr>
<tr>
<td>Spruce, not glued.</td>
<td>15 0002U K100</td>
<td>15 0002U</td>
<td>15 0020U</td>
<td>15 0020U</td>
</tr>
<tr>
<td>Pine¹</td>
<td>15 0302 K100</td>
<td>15 0302*</td>
<td>15 0302</td>
<td>15 0320</td>
</tr>
<tr>
<td>Nordic pine³</td>
<td>15 0402 K100</td>
<td>15 0402*</td>
<td>15 0402</td>
<td>15 0420*</td>
</tr>
<tr>
<td>Beech nat.</td>
<td>15 0702 K100</td>
<td>15 0702*</td>
<td>15 0702</td>
<td>15 0720</td>
</tr>
<tr>
<td>Larch</td>
<td>15 0802 K100</td>
<td>15 0802*</td>
<td>15 0802</td>
<td>15 0820*</td>
</tr>
<tr>
<td>Silver fir</td>
<td>15 1102 K100</td>
<td>15 1102*</td>
<td>15 1102</td>
<td>15 1120</td>
</tr>
<tr>
<td>Beech</td>
<td>15 1602 K100</td>
<td>15 1602*</td>
<td>15 1602</td>
<td>15 1620</td>
</tr>
<tr>
<td>Larch Siberian</td>
<td>15 3020 K100</td>
<td>15 3020*</td>
<td>15 3020</td>
<td>15 3020</td>
</tr>
<tr>
<td>Douglas fir / Oregon Pine</td>
<td>15 2902 K100</td>
<td>15 2902</td>
<td>15 2902</td>
<td>15 2920</td>
</tr>
<tr>
<td>Oak</td>
<td>15 3002 K100*</td>
<td>15 3002*</td>
<td>15 3002</td>
<td>15 3020</td>
</tr>
<tr>
<td>Meranti</td>
<td>15 3202 K100</td>
<td>15 3202*</td>
<td>15 3202</td>
<td>15 3220</td>
</tr>
<tr>
<td>Walnut</td>
<td>15 3502 K100</td>
<td>15 3502</td>
<td>15 3502</td>
<td>15 3502</td>
</tr>
</tbody>
</table>

### Jumbo Box

<table>
<thead>
<tr>
<th></th>
<th>1500 pieces</th>
<th>500 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>15 0020J</td>
<td>15 0020J</td>
</tr>
<tr>
<td>Larch</td>
<td>15 0820J</td>
<td>15 0820J</td>
</tr>
<tr>
<td>Pine</td>
<td>15 0320J</td>
<td>15 0320J</td>
</tr>
</tbody>
</table>

### Industrial package

<table>
<thead>
<tr>
<th></th>
<th>7000 pieces</th>
<th>200 pieces</th>
<th>2500 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>15 0020I</td>
<td>15 0020I</td>
<td>15 0020I</td>
</tr>
<tr>
<td>Spruce nat.²</td>
<td>15 0102I</td>
<td>15 0102I</td>
<td>15 0102I</td>
</tr>
<tr>
<td>Nordic spruce³</td>
<td>15 0202I</td>
<td>15 0202I</td>
<td>15 0202I</td>
</tr>
<tr>
<td>Pine³</td>
<td>15 0302I</td>
<td>15 0302I</td>
<td>15 0302I</td>
</tr>
</tbody>
</table>

### Edge patches

<table>
<thead>
<tr>
<th></th>
<th>Size 20K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>15 0023</td>
</tr>
<tr>
<td>Larch Siberian</td>
<td>15 5223</td>
</tr>
</tbody>
</table>

¹ mixed, close / wide growth rings  
² comb-grained / close growth rings / light-coloured  
³ wide growth rings / light-coloured

* 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

with Minispot patches assorted .......... 12 x 50 pieces .......... 2 .............................. 15 0002L08

beech, oak, ash, spruce-fir, pine, hemlock, cherry, larch, mahogany, walnut, sapelli, silver fir

Patching rods

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Size</th>
<th>Length</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>2</td>
<td>85 mm</td>
<td>500</td>
<td>15 0002L08</td>
</tr>
<tr>
<td></td>
<td>250 mm</td>
<td>100</td>
<td></td>
<td>15 0002L25</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>100</td>
<td></td>
<td>15 0002L50</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>22</td>
<td>250 mm</td>
<td>50</td>
<td>15 0022L25</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>50</td>
<td></td>
<td>15 0022L50</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>20</td>
<td>85 mm</td>
<td>220</td>
<td>15 0002L08</td>
</tr>
<tr>
<td></td>
<td>250 mm</td>
<td>45</td>
<td></td>
<td>15 0002L25</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>45</td>
<td></td>
<td>15 0002L50</td>
</tr>
<tr>
<td>Pine</td>
<td>2</td>
<td>250 mm</td>
<td>100</td>
<td>15 0302L25</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>100</td>
<td></td>
<td>15 0302L50</td>
</tr>
<tr>
<td>Larch, Siberian</td>
<td>20</td>
<td>85 mm</td>
<td>220</td>
<td>15 5220L08</td>
</tr>
<tr>
<td></td>
<td>250 mm</td>
<td>45</td>
<td></td>
<td>15 5220L25</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>45</td>
<td></td>
<td>15 5220L50</td>
</tr>
</tbody>
</table>

Industrial package

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Size</th>
<th>Length**</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
<td>15 0002L08</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>630</td>
<td></td>
<td>15 0002L08</td>
</tr>
<tr>
<td>Pine</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
<td>15 0302L08</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>630</td>
<td></td>
<td>15 0302L08</td>
</tr>
<tr>
<td>Larch</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
<td>15 0820L08</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>630</td>
<td></td>
<td>15 0820L08</td>
</tr>
</tbody>
</table>

** Nominal length = Traverse path

Knot patches and Crossbar pins

Knot patches

<table>
<thead>
<tr>
<th>Box of 250 pieces</th>
<th>Ø 10 mm</th>
<th>Ø 15 mm</th>
<th>Ø 20 mm</th>
<th>Ø 25 mm</th>
<th>Ø 30 mm</th>
<th>Ø 35 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>15 7010*</td>
<td>15 7015*</td>
<td>15 7020*</td>
<td>15 7025*</td>
<td>15 7030*</td>
<td>15 7035*</td>
</tr>
<tr>
<td>Pine</td>
<td>15 7110</td>
<td>15 7115</td>
<td>15 7120</td>
<td>15 7125</td>
<td>15 7130</td>
<td>15 7135</td>
</tr>
<tr>
<td>Larch</td>
<td>15 7210</td>
<td>15 7215</td>
<td>15 7220</td>
<td>15 7225</td>
<td>15 7230</td>
<td>15 7235</td>
</tr>
</tbody>
</table>

Knot patches assorted

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 7050</td>
</tr>
</tbody>
</table>

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

Crossbar pin

<table>
<thead>
<tr>
<th>Box of 1 kg</th>
<th>Ø 10 mm</th>
<th>Ø 15 mm</th>
<th>Ø 20 mm</th>
<th>Ø 25 mm</th>
<th>Ø 30 mm</th>
<th>Ø 35 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>15 7010Q</td>
<td>15 7015Q</td>
<td>15 7020Q</td>
<td>15 7025Q</td>
<td>15 7030Q</td>
<td>15 7035Q</td>
</tr>
<tr>
<td>Larch</td>
<td>15 7210Q</td>
<td>15 7215Q</td>
<td>15 7220Q</td>
<td>15 7225Q</td>
<td>15 7230Q</td>
<td>15 7235Q</td>
</tr>
</tbody>
</table>

* 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

Low dust emission

Safe

Only 5.4 kg but 1600 W power!
**Tanga Delta**

The ideal machine for window replacement.

---

**Tanga Delta S2**

- Cut into the stone wall
- Base plate for cuts into corner
- 45° cut into the corner

**Tanga Delta H**

- Cut into the timber frame

---

**Advantages and properties**

- Effortless low friction guide for longevity despite daily use in stone and plaster
- Base plate with snap-in locker for a quick change of tools

**Tanga Delta S2 – Cut into the stone wall**

- Diamond blade for cutting plaster, stone and tiles
- 2 base plates for cutting straight-line and into the corner

**Tanga Delta H – cut into the timber frame**

- Saw blade for wood frames
- 1 base plate for cutting straight-line

---

**Applications with Tanga Delta S2**

- Clean replacement of old windows
- Cut the wall for larger windows
- Cut-outs for weatherboards
- Cuts for wall breakouts
- Dustless cuts into plasterboards
- Straight cuts into tiled walls

---

**Technical data**

- **Power**: 1'600 W with electronic overload protection
- **Voltage**: 230 V
- **Speed**: 7'700 min⁻¹
- **Cutting height**: 6 mm (groove width)
- **Weight**: 5.4 kg

**Tanga Delta S2**

- Diamond blade: Ø 180 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**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Tanga Delta S2</td>
<td>111553</td>
</tr>
<tr>
<td>Tanga Delta H</td>
<td>111560</td>
</tr>
</tbody>
</table>

**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 90 onwards
Variocut
The expansion gap and parquet cutter for gap width 4–8 mm

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 .......................................................... 800 W
Voltage ..................................................... 230 V
Speed ....................................................... 10'000 min⁻¹
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.
in wooden case ................................................. 111450

Kit contains
Machine with:
saw blade, set of tools, manual

Accessories can be found from page 90 onwards
Edge processing with the Profila
The edge profiling machine with a stable surface for various jobs

Advantages and properties

Stepless fine adjustment

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

Stable working

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

All shapes, any job

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

All standard cutters

No special cutters required. Use your existing cutters. The machines are shipped with collet chucks Ø 6mm, 8mm and ¼”.

Variable tool opening

25 mm or 34 mm depending on the cutter size

Large base plate

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

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

**Advantages and properties**

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

**Profila E plus, Profila Pro plus**

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

**Profila P2**

- Ideal for rounding edges

**Technical data**

<table>
<thead>
<tr>
<th></th>
<th>Profila E plus</th>
<th>Profila Pro plus</th>
<th>Profila P2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>740 W</td>
<td>400 W</td>
<td>300 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 V</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>25'000 min⁻¹</td>
<td>22'000 min⁻¹</td>
<td>21'000 min⁻¹</td>
</tr>
<tr>
<td>Base plate</td>
<td>Ø 100 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1.8 kg</td>
<td>1 kg</td>
<td>0.9 kg</td>
</tr>
<tr>
<td>Air consumption</td>
<td>180 l/min</td>
<td>150 l/min</td>
<td></td>
</tr>
<tr>
<td>Operating pressure</td>
<td>max. 6.5 bar</td>
<td>max. 6.5 bar</td>
<td></td>
</tr>
<tr>
<td>Air consumption</td>
<td>¼” NPT</td>
<td>¼” NPT</td>
<td></td>
</tr>
</tbody>
</table>

**Kit contains**

Machine with:
- carbide tipped cutter Z2, R 2 mm, collet chucks 6 mm, 8 mm and ¼”, set of tools, manual

Accessories can be found from page 90 onwards
Cantex Ergo
The high-precision planer for top quality flush-milling of solid wood edges

**Advantages and properties**

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

**Technical data**

- **Power** .................. 1'000 W
- **Voltage** .................. 230 V or 120 V
- **Speed** .................. 10'000 min⁻¹
- **Tool** .................. Cutter head with 3 carbide reversing blades, 45 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

**Cantex Ergo**

Art.No. in carton .................................................... 111857

**Kit contains**

Machine with:
set of tools, manual

**Accessories**

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Parallel guide stop for Cantex Ergo / S2</td>
</tr>
</tbody>
</table>

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 90 onwards
Accessories / Spare Parts
Clamex P Accessories

**P-System drill jig**

P-System drill jig incl. drill, from 22.5° .......................................................... 125344
for all Clamex P fittings (P-10, P-14, P Medius 14/10)

**P-System drill jig long**

Drill jig for thick work pieces 100 mm, (P-14, P Medius 14/10).............................. 125345

**Drill**

Spiral drill Ø 6 mm with centering point ................................................................. 131506

**Clamex P assembly tool**

for all angles, fast and flexible,
Hex 4 x 30 mm, length 290 mm................................................................. 251993

**Allen key**

4 mm, 75 x 55 mm ......................................................................................... 271945
4 mm, 120 x 50 mm ..................................................................................... 271945A

**Cover caps, 100 pieces**

- **90°**
  - RAL 9010, White.......................... 335280
  - RAL 9011, Black......................... 335281
  - RAL 1014, Ivory......................... 335282
  - RAL 1011, Brown beige.............. 335283
  - RAL 8007, Brown...................... 335284
  - RAL 9002, Grey-white.............. 335285
  - RAL 7035, Light grey.............. 335286
  - RAL 7040, Window grey......... 335287
  - RAL 7031, Blue grey............. 335288

- **45°**
  - RAL 9010, White.................... 335380
  - RAL 9011, Black.................. 335381
  - RAL 1014, Ivory................. 335382
  - RAL 1011, Brown beige.... 335383
  - RAL 8007, Brown............. 335384
  - RAL 7022, Umbra grey.... 335385
  - RAL 7031, Blue grey..... 335386
### Divario P-18 Accessories

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Divario P-18 Installation tool</strong></td>
<td>125500</td>
</tr>
<tr>
<td>Divario P-18 Installation tool for fixing the Divario in the workpiece</td>
<td></td>
</tr>
<tr>
<td><strong>Divario P-18 Marking jig</strong></td>
<td>125510</td>
</tr>
<tr>
<td>Marking jig incl. drill with centering point and rotating depth collar</td>
<td></td>
</tr>
<tr>
<td>for the precise drilling of Divario drill holes by hand</td>
<td></td>
</tr>
<tr>
<td><strong>Divario P-18 Positioning pins</strong></td>
<td>145546</td>
</tr>
<tr>
<td>For furniture without backs as a stop when inserting the workpiece</td>
<td></td>
</tr>
<tr>
<td><strong>Divario P-18 Installation tool for positioning pins</strong></td>
<td>125520</td>
</tr>
<tr>
<td>Installation tool for the insertion of the positioning pins</td>
<td></td>
</tr>
</tbody>
</table>

### Cutters for Zeta P2

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P-System groove cutter, Ø 100.4 x 7 x 22 mm</strong></td>
<td>132140</td>
</tr>
<tr>
<td>Z3, diamond dipped</td>
<td></td>
</tr>
<tr>
<td>for Zeta (P-System)</td>
<td></td>
</tr>
<tr>
<td><strong>P-System groove cutter, Ø 100.9 x 7 x 22 mm</strong></td>
<td>132141</td>
</tr>
<tr>
<td>Z3, carbide tipped</td>
<td></td>
</tr>
<tr>
<td>for Zeta (P-System)</td>
<td></td>
</tr>
</tbody>
</table>
Accessories / Lamello-System

Cutters, saw blades

**Carbide tipped groove cutter, Ø 100 x 4 x 22 mm**
Art.No. 132000
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

**Carbide tipped groove cutter, Ø 78 x 3 x 22 mm**
Art.No. 132001
Z4, 4 Screw holes, with hub for biscuit H9 ............... for Zeta, Top 20, Top 21, Classic ... 132009

**Carbide tipped groove cutter with reversible blades, Ø 100 x 4 x 22 mm**
Art.No. 132000
Z2 + V2, 4 screw holes with hub ........................ for 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
Replacement-Set, 4 scoring teeth + 4 main teeth ...... for Art.No. 132130 .......................... 132133

**Carbide tipped groove cutter with reversible blades, Ø 100 x 8 x 22 mm**
Art.No. (Clamex S connector) 132130
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
Replacement-Set, 4 scoring teeth + 4 main teeth ...... for Art.No. 132108 .......................... 132114

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

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

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

**Accessories for saw blades**
Art.No. 132350
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**

<table>
<thead>
<tr>
<th>Expansion gap width</th>
<th>8 mm</th>
<th>9 mm</th>
<th>10 mm</th>
<th>11 mm</th>
<th>12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height adjustment</td>
<td>-2</td>
<td>-1</td>
<td>±0</td>
<td>+1</td>
<td>+2</td>
</tr>
<tr>
<td>Top 20, S2, S3, S4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top 21</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Accessories / Lamello-System

Clamex S Accessories

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

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

Spacers for biscuit joiners

- **Spacer**
  5 mm, Aluminium for 18 mm panels
  Art.No. 253027
  for Top 21 / Zeta / Classic

  2 mm, Plastic for 16 mm panels
  Art.No. 253023
  for Top 21 / Zeta / Classic

  4 mm, Plastic for miters
  Art.No. 253026
  for Top 21 / Zeta / Classic
## Accessories / Glueing System

### LK 3, LK 5, LK 10

**Art.No.** 533205

The mobile station for LK 10, LK 5 and LK 3:
- adjustable suspension rod
- incl. service boiler with grip, cover and grid basket to submerge nozzles in water when not in use, volume 3 l (533255)
- dimensions 410 x 410 x 850 mm

### LK Rolling base with handle

**Art.No.** 533204

For LK 5 and LK 3:
- on 4 wheels with pushing handle
- complete with water container and hook for suspension of hose
- dimensions 254 x 254 x 820 mm

### LK Rolling base

**Art.No.** 533201

Allows pulling behind by hose of LK 5 and LK 3:
- lowered platform for stability of the glue applicator
- dimensions 254 x 254 mm

| Connector | 3/4" for water tap | 533250 |
| Cleaning brush | Ø 40 x 100 mm, length 340 mm | 533252 |
| Service container | Volume 3 litres with mesh basket for 533205 | 533255 |
| Water reservoir complete | Inside dimensions Ø 60 x 90 mm | 533260 |
| Distributor | for 2 – 3 additional hoses | 533238 |
| Connector | with external thread M8 | 533230 |
| | with 2 screws M4 x 10 | 533240 |
| | for round nozzle + pointed nozzle | 583208 |
| Hose mounted | Ø 10 x 4000 mm | 533215 |
| | Ø 13 x 4000 mm | 533216 |
| Hose | Ø 10 mm per meter | 553210 |
| | Ø 13 mm per meter | 553213 |
| Hose fitting set | Ø 10 mm | 533222 |
| | Ø 13 mm | 533223 |
| Empty glue container | incl. cover with 1 hole 3 kg | 533224 |
| | incl. cover with 1 hole 5 kg | 533225 |
| | incl. cover with 2 holes 10 kg | 533226 |
| Lid for glue container | without hole 5 kg | 553205 |
| | without hole 10 kg | 553224 |
| Bracket with 2 screws for roller nozzle | | 552822 |

### Dosicol / Minicol / Servicol

| Glue bottle with metering pump | for Dosicol | 287012 |
| Metering pump complete | for Dosicol | 287013 |
| Cap for glue bottle | for Dosicol | 337001 |
| Base | for Dosicol | 287010 |
| Water container | for Dosicol | 337040 |
| Adapter for nozzles | for Dosicol | 533232 |
| Glue bottle Minicol, Servicol | for Minicol / Servicol | 335510 |
| Base, solid wood for Minicol | for Minicol | 285515 |
| Base, plastic for Servicol | for Servicol | 335513 |
Cutters

**Carbide tipped cutters for Lamello wood repair machines**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>132217</td>
<td>100 x 8 x 22 mm, Z4, 4 screw holes for Minispot patches</td>
<td>2</td>
</tr>
<tr>
<td>132213</td>
<td>100 x 8 x 22 mm, Z4 for Minispot patches</td>
<td>8</td>
</tr>
<tr>
<td>132209</td>
<td>100 x 15 x 22 mm, Z4 for Minispot patches</td>
<td>22</td>
</tr>
<tr>
<td>132208</td>
<td>100 x 15 x 22 mm, Z4 for Minispot patches</td>
<td>4</td>
</tr>
<tr>
<td>132222</td>
<td>100 x 20 x 22 mm, Z4 for Minispot patches</td>
<td>20</td>
</tr>
<tr>
<td>132221</td>
<td>100 x 20 x 22 mm, Z4 with profile blades</td>
<td>20</td>
</tr>
</tbody>
</table>

**Carbide tipped saw blade Z20**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>132301</td>
<td>Ø 100 x 2.4 x 22 mm for Patchmaker 2</td>
<td>2</td>
</tr>
<tr>
<td>132350</td>
<td>Ø 100 x 2.4 x 22 mm with 2 spacers for Patchmaker 20, Variocut</td>
<td>20</td>
</tr>
</tbody>
</table>

**Carbide tipped profile cutter Z2**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>131600</td>
<td>Shaft-Ø 8 mm for Patchmaker 2</td>
<td>2</td>
</tr>
</tbody>
</table>

**Carbide tipped profile cutter Z2+2**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>131620</td>
<td>Ø 80 x 29 x 20 mm for 1 x Size 20</td>
<td>20</td>
</tr>
<tr>
<td>131621</td>
<td>for 2 x Size 2</td>
<td>20</td>
</tr>
</tbody>
</table>
### Accessories / Window replacement

#### Tanga Delta

<table>
<thead>
<tr>
<th>Carbide tipped saw blades</th>
<th>Ø 200 x 2.4 x 22 mm (cutting depth 68 mm) for Tanga Delta</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z12, 4 screw holes</td>
<td></td>
<td>132322</td>
</tr>
<tr>
<td>Z24, 4 screw holes</td>
<td></td>
<td>132320</td>
</tr>
<tr>
<td>Z24, 4 NL, higher resistance against screws, high cutting performance…</td>
<td></td>
<td>132323</td>
</tr>
<tr>
<td>Z24, 4 NL, (only suited for cutting into the wood without moving the machine)</td>
<td></td>
<td>132321</td>
</tr>
<tr>
<td>Screw M4x8 for saw blades</td>
<td></td>
<td>352408F</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø 200 x 2.2 x 22 mm (cutting depth 68 mm) for Tanga Delta</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z32, for aluminium windows</td>
<td>132324</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø 180 x 2.4 x 22 mm (cutting depth 58 mm) for Tanga Swiss, 1811, Dia</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z12, 6 screw holes</td>
<td>132317</td>
</tr>
<tr>
<td>Z24, 6 screw holes</td>
<td>132318</td>
</tr>
<tr>
<td>Z24 special, 6 screw holes, only for cutting into the wood without moving the machine</td>
<td>132319</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø 150 x 2.4 x 22 mm (cutting depth 45 mm) for Tanga 150, 1511</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z12, 6 screw holes</td>
<td>132315</td>
</tr>
<tr>
<td>Z24, 6 screw holes</td>
<td>132316</td>
</tr>
<tr>
<td>Z26 special, 6 screw holes, only for cutting into the wood without moving the machine</td>
<td>132314</td>
</tr>
</tbody>
</table>

#### Diamond blades

<table>
<thead>
<tr>
<th>Ø 200 x 2.6 x 22 mm (cutting depth 68 mm) for Tanga Delta</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 screw holes, for a clean cut into tiles and plaster</td>
<td>132517</td>
</tr>
<tr>
<td>4 screw holes, segmented for soft materials</td>
<td>132522</td>
</tr>
<tr>
<td>4 NL, for PVC windows with steel core</td>
<td>132523</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø 180 x 2.6 x 22 mm (cutting depth 58 mm)</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 screw holes</td>
<td>132519</td>
</tr>
<tr>
<td>4 screw holes, for Tanga Delta</td>
<td>132518</td>
</tr>
</tbody>
</table>

**Attention:**

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

#### Accessories

<table>
<thead>
<tr>
<th>Accessories</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbet stop for Tanga for Tanga 180, 1811 S, Swiss</td>
<td>251525</td>
</tr>
<tr>
<td>for Tanga Delta H, S2</td>
<td>121556</td>
</tr>
<tr>
<td>Base plate for corners for Tanga Delta H, S2</td>
<td>321548</td>
</tr>
<tr>
<td>2 rolls for base plate for Tanga Delta H, S2</td>
<td>251554</td>
</tr>
</tbody>
</table>

#### 3 SPa / Variocut

<table>
<thead>
<tr>
<th>Carbide tipped saw blades</th>
<th>Ø 120 x 2.4 x 22 mm for 3S Pa</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z20, with 2 spacers</td>
<td></td>
<td>132312</td>
</tr>
<tr>
<td>Z20, with flange M8</td>
<td></td>
<td>132382</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ø 100 x 2.4 x 22 mm</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Z20, with 2 spacers</td>
<td>132350</td>
</tr>
<tr>
<td>Z20, without spacer rings</td>
<td>132301</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Accessories for saw blades</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange M8, with screws</td>
<td>252502</td>
</tr>
<tr>
<td>Spacer 40 x 22 x 1 mm</td>
<td>322501</td>
</tr>
<tr>
<td>40 x 22 x 0.5 mm</td>
<td>322502</td>
</tr>
</tbody>
</table>
**Accessories / Edge processing**

### Profila

**Carbide tipped edge cutters**
Art.No. 131987

Radius 2 mm, shaft-Ø 8 mm.

- for Profila E, P

**Base plates**
Art.No.

- with gap, Ø 100 mm.
  - for Profila E
  - for Profila, Pro

- without gap, Ø 100 mm.
  - for Profila E
  - for Profila P2, Pro plus

**Collet chucks**
Art.No.

- 6 mm.
  - for Profila E (L 48, L 50, 230 V) 251960
  - for Profila P2, Pro, Pro plus 251966
  - for Profila P2, Pro, Pro plus 251967

- 8 mm.
  - for Profila E (L 48, L 50, 230 V) 251962
  - for Profila, Pro 251968
  - for Profila, Pro 251969

- 1/4”.
  - for Profila E (L 48, L 50, 230 V) 251961
  - for Profila (L 51, 120 V) 251967

**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

### Cantex Ergo / Plano

**Carbide tipped profile cutter**
Art.No.

- Ø 30 mm
  - for 90° and 35° 131980
  - for 90° and 22° 131981

### Lamina
# Suction accessories

**Suction set complete**

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

**Parts**

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

**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

<table>
<thead>
<tr>
<th><strong>Air wedge</strong></th>
<th><strong>Art.No.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Set with 4 air wedges</td>
<td>060003</td>
</tr>
</tbody>
</table>

### Worktop / Countertop jigs

**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

<table>
<thead>
<tr>
<th><strong>Worktop jig</strong></th>
<th><strong>Art.No.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard jig for worktops up to 650 mm width</td>
<td>121300</td>
</tr>
<tr>
<td>Spare pegs for jig for worktop jig (6 pieces)</td>
<td>121312</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Carbide tipped cutters</strong></th>
<th><strong>Size</strong></th>
<th><strong>Shaft</strong></th>
<th><strong>Art.No.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>for worktop jig</td>
<td>Ø 12.7 x 50 mm</td>
<td>Ø 12 mm</td>
<td>131300</td>
</tr>
<tr>
<td></td>
<td></td>
<td>total length 100 mm</td>
<td></td>
</tr>
<tr>
<td>for worktop jig with reversing teeth</td>
<td>Ø 12.7 x 50 mm</td>
<td>Ø 12 mm</td>
<td>131305</td>
</tr>
<tr>
<td></td>
<td></td>
<td>total length 100 mm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Spare parts for cutter 131305</strong></th>
<th><strong>Art.No.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Carbide-Reversing blades</td>
<td>131310</td>
</tr>
<tr>
<td>Set screw M2½ x 2½ for reversible blades</td>
<td>352202</td>
</tr>
</tbody>
</table>

### Other accessories

<table>
<thead>
<tr>
<th><strong>LEPUS</strong></th>
<th><strong>Art.No.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Finishing disc, fine (Grain 500)</td>
<td>135017</td>
</tr>
<tr>
<td>Grinding disc, rough (Grain 60)</td>
<td>135032</td>
</tr>
<tr>
<td>Accessories / Spare Parts</td>
<td></td>
</tr>
<tr>
<td>---------------------------</td>
<td></td>
</tr>
<tr>
<td>Stop square</td>
<td></td>
</tr>
<tr>
<td>Front stop, plastic</td>
<td></td>
</tr>
<tr>
<td>Anti-slip pad</td>
<td></td>
</tr>
<tr>
<td>Spacer 2 mm</td>
<td></td>
</tr>
<tr>
<td>Spacer 4 mm</td>
<td></td>
</tr>
<tr>
<td>Swivelling stop</td>
<td></td>
</tr>
<tr>
<td>Cassette</td>
<td></td>
</tr>
<tr>
<td>Base plate incl. Swivelling stop</td>
<td></td>
</tr>
<tr>
<td>Base plate</td>
<td></td>
</tr>
<tr>
<td>Guide</td>
<td></td>
</tr>
</tbody>
</table>

| Top 21     |
| Top 20 S2 / S3 / S4 |
| Top 20 / Top 20 S |
| Top 10     |
| Classic X  |
| Experta / Classic C3 |
| Classic C2 |
| Classic    |
| Standard 10A |
| Junior 10  |
| Minispot G2A |
| Minispot G2 |
| Minispot G20 S2 |
| Minispot G20 |
| 3S         |
| 3S Pa      |
| Tanga Swiss |
| Tanga 1811 S / 1811 S2 |
| Tanga 180 / 1811 |
| Tanga Delta |
### Clamex P-14
- **Size**: 66 x 27 x 9.7 mm
- **Detachable connecting fitting**
- **Tensile strength**
  - Particle board: ~ 800 N
  - Beech: ~ 1'000 N
- **Art.No.**
  - 80 pairs: 145334
  - 300 pairs: 145346
  - 1000 pairs: 145356

### Clamex P-10
- **Size**: 52 x 19 x 9.7 mm
- **Detachable connecting fitting**
- **Tensile strength**
  - Particle board: ~ 600 N
  - Beech: ~ 900 N
- **Art.No.**
  - 80 pairs: 145372
  - 300 pairs: 145373
  - 1000 pairs: 145374

### Clamex P Medius 14 / 10
- **Aligning element suitable for Clamex P-14 + Tenso P-14 and Clamex P-10**
- **Size**: 66 x 13.5 x 9.7 mm
- **Tensile strength**
  - Particle board: ~ 700 N
  - Beech: ~ 900 N
- **Art.No.**
  - 80 pairs: 145371

### Bisco P-14
- **Self-clamping fitting as gluing aid**
- **Size**: 66 x 27 x 9.7 mm
- **Tightening force per connector**: ~ 150 N
- **Art.No.**
  - 80 pairs: 145301
  - 300 pairs: 145302
  - 1000 pairs: 145303

### Divario P-18
- **Self clamping, invisible fitting for slide insertion**
- **Size**: 65 x 16 x 9.7 mm
- **Tensile strength**
  - Ø 8 x 9 mm
- **Art.No.**
  - 80 pairs: 145501
  - 300 pairs: 145560
  - 1000 pairs: 145570

### P-System cutter
- **Art.No.**
  - 132140: Diamond tipped
  - 132141: Carbide tipped
- **Ø 100.4 x 7 x 22 mm, Z3**
The complete spare parts list is on our website. 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