Lamello’s exciting and successful history started when the company was founded in 1944. The invention of the original biscuits in 1955 saw Lamello gain worldwide recognition, and large quantities are still produced and installed to this day. Yet anyone who knows Lamello knows that we don’t like to stand still. Lamello has continuously developed over the years and has launched numerous innovations. We are proud to be the market leader in the manufacturing of precision joining systems. Working together as a team, we strive to constantly supplement our system solutions with new, practical components that are simpler than you might expect. This in turn enables us to continuously expand the use of our system. Our customers from trade and industry thereby benefit from a wide spectrum of design options, practical functionality and optimized production costs.
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Far-reaching. Close to home.
At home right across the globe.

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

Every milestone starts with an idea. However, revolutionary ideas don’t just come about easily. It is only through many years of practical knowledge and intensive development working together with our customers that we have been able to constantly come up with new solutions, and in so doing decisively shape the market for wood joining technology and wood processing to this day.

2001
Interzum award: Invis joining system

1969
Founding of Lamello AG

1968
Invention: First manually guided Lamello biscuit joiner

1958
Invention: First stationary Lamello biscuit joiner LO1

1955
Invention: Lamello-System

1944
Joinery founded by Hermann Steiner in Liestal
1970
Invention: Wood repair system

1981
Invention: Tanga 150, window cutter

1996
Acquisition and development: Schneeberger gluing technology

2009
Interzum award: Invention Clamex P

2010
Invention: Zeta, power tool for the P-System

2013
Interzum award: Invention Tenso P-14

2015
Interzum award: Invention Divario P-18

2017
Development: Tanga DX200

2017
Invention: Cabineo the CNC connector of the future!
As a leading manufacturer of precision joining systems, Lamello sets new standards with the P-System when it comes to joining connectors and workpieces. 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 the simplicity of the installation of the connectors – taking just a few seconds without the need for tools. The versatile range of P-System connectors is continuously being expanded with new, highly practical and innovative components which allow for an increasingly universal application of the system. Our customers in trade and industry benefit continuously from the system’s high functional efficiency and process cost efficiency.
“Lamello’s system solutions are synonymous with quality, innovation and excellent functionality, and are used across the globe where they have proven their worth millions of times over!”

Susanne Affolter
Managing Director and Owner at Lamello AG
Comprehensively designed.
Utmost precision.

Our ambition.
When faced with the choice of convincing customers or surpassing expectations, we say: why not do both? We want to win over customers through our committed, well trained and experienced employees. We want to surpass your expectations with our high-quality precision technology, first-class quality and professionalism. Or, to quote Oscar Wilde: "I have the simplest tastes. I am always satisfied with the best." This quote perfectly sums up our ambitions.
Swiss premium quality.

We are proud that the wood for our biscuits has been sourced from where our head office is located in Bubendorf ever since production began. This is our process: the beech logs that are delivered are initially cut into scantlings, which are then kiln-dried. The lattice design is embossed into the element during the stamping process and the element is compressed. In the next step, the distinctive oval shape is stamped out diagonally to the grain. After successfully passing the quality inspection, the biscuits are delivered from Bubendorf to locations across the globe.

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

Karl Steiner, Chairman of the Board of Directors
“The time saved with the P-System convinced us from the start.”

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

**Tradition and Innovation.**

We particularly value:

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

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

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

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

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

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

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

Martin Wegscheider, Managing Director, Spechtenhauser in Innsbruck, Austria
Joining with the P-System
Form-locking, tool-free installation of Lamello P-System connectors

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

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

**Power tool**
Quick and easy to handle, with a range of applications

**CNC technology**
Ideal for high production

**Advantages of the Zeta P2**
Any angle can be cut very quickly, as no set-up time, software or programming is required. The cutting depth can be adjusted in next to no time. The machine is therefore ideal for cutting individual parts, smaller production runs, prototypes or working on site.

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

Quick manual insertion without the need for glue or screws
**P-System**
Form-locking anchorage without tools

**Clamex P**
Detachable connector

**Tenso P**
with preload clip
Self-clamping connector as gluing aid, for all angles

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

Fast installation
Inserting instead of screwing or gluing

Detachable
Open the connection time and time again with the rotating lever

Gluing
Fixed joints of two workpieces

Sliding insertion
Insertion between two fixed sides or shelves via a guiding groove
Strong
Form-locking anchorage across large surface areas

Lateral tolerance
Perfect, flush alignment of both workpieces

Shallow depth
Minimal cutting depth with maximum tensile strength

No twisting
The positioning pins prevent twisting without additional dowels

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

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

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

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

Invisible
No visible connector

High clamping force
Allows for perfect alignment and clamps the workpieces – 15 kg or 30 lb

Versatile
Simple gluing of miter joints

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

Invisible
Guiding groove covers the connectors

Clamped joint
No resistance while inserting until shortly before building the clamping force

Fast installation
Quick installation of the connectors without glue after transport

Assemble by sliding
Partially routed guiding groove for completely invisible furniture joints
Clamex P

Detachable connector

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

Clamex P-14
For panels from 16 mm

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

Tensile strength
MDF ~ 900 N or 200 lb
Particle board ~ 800 N or 180 lb
Beech ~ 1000 N or 220 lb

Clamex P-14 Part no.
Box of 80 pairs.................................145334
Box of 300 pairs..............................145346
Box of 1000 pairs............................145356

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

Accessories starting page 98
**Clamex P-10**

For panels from 12 mm

Technical data

<table>
<thead>
<tr>
<th>Size:</th>
<th>52 × 19 × 9.7 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutter:</td>
<td>Ø 100.4 × 7 × 22</td>
</tr>
<tr>
<td>Material of connector:</td>
<td>fiberglass 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

- MDF: ~ 600 N or 130 lb
- Particle board: ~ 600 N or 130 lb
- Beech: ~ 900 N or 200 lb

Clamex P-10

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Box of 80 pairs</th>
<th>145372</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Box of 300 pairs</td>
<td>145373</td>
</tr>
<tr>
<td></td>
<td>Box of 1000 pairs</td>
<td>145374</td>
</tr>
</tbody>
</table>

Drill jig P-System

| 125344 |

Accessories starting page 98

---

**Clamex P-Medius 14/10**

For center panels from 16 mm

Technical data

<table>
<thead>
<tr>
<th>Size:</th>
<th>64 × 13.5 × 9.7 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutter:</td>
<td>Ø 100.4 × 7 × 22</td>
</tr>
<tr>
<td>Material of connector:</td>
<td>fiberglass 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>

Load (19 mm)  

<table>
<thead>
<tr>
<th>Material</th>
<th>Load</th>
<th>Tensile strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDF</td>
<td>~ 700 N or 150 lb</td>
<td>~ 800 N or 180 lb</td>
</tr>
<tr>
<td>Particle board</td>
<td>~ 500 N or 110 lb</td>
<td>~ 600 N or 130 lb</td>
</tr>
<tr>
<td>Beech</td>
<td>~ 2400 N or 530 lb</td>
<td>~ 900 N or 200 lb</td>
</tr>
</tbody>
</table>

Clamex P Medius 14/10

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Box of 80 pairs</th>
<th>145370</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Box of 300 pairs</td>
<td>145371</td>
</tr>
<tr>
<td></td>
<td>Box of 1000 pairs</td>
<td>145357</td>
</tr>
</tbody>
</table>

Drill jig P-System

| 125344 |

Accessories starting page 98
Bisco P
Aligning element suitable for the P-System groove

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 gluing a joint with Tenso P-14
- For aligning P-System grooves, aligning function without glue

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

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

Applications of Bisco P
- Wall panels
- Furniture with large depth
- Gluing of workpieces

Technical data
Size Bisco P-14 .................. 65 × 27 × 7 mm
Size Bisco P-10 ................. 52 × 19 × 7 mm
Cutter ................................ Ø 100.4 × 7 × 22
Material ............................ plastic
Installation tolerance .............. longitudinal ± 2 mm
Tensile strength with adhesive .. ~ 400 N or 90 lb

Bisco P-14
| Part no. |
| Box of 80 pieces. | 145301 |
| Box of 300 pieces. | 145302 |
| Box of 1000 pieces. | 145303 |

Bisco P-10
| Part no. |
| Box of 80 pieces. | 145304 |
| Box of 300 pieces. | 145305 |
**Clamex P – Applications**

**Furniture manufacturing / Cabinet making**

Your advantages with Clamex P

**Aesthetic solution**
- Differentiation to furniture standards

**Stackable with pre-installed connectors**
- Advantages in packaging, transport and logistics

**Short assembly time on site**
- Minimal installation cost

![Detachable](image1.png)
- Fast installation
![Aesthetic](image2.png)
- Strong
![High clamping force](image3.png)
- Lateral tolerance
![Stackable](image4.png)
- Shallow cutting
![Versatile](image5.png)
- No twisting

**Applications**
Cabinetry | shelves | wardrobes | trade show exhibits | kitchen furniture | TV furniture | etc.

**Production process**

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

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

3. **Delivery in parts**
   - **Small transport volume** with pre-installed connectors due to stackability
   - **Smaller stock volume** for the dealer
   - Easy transport of the parts into the building

4. **Assembly on site**
   - **Shorter assembly time at the customer’s due to the pre-installed connectors**
   - Easy to assemble for a lay person with an allen key
   - No second person necessary
   - No dowels for lining-up necessary
   - Easy to take apart when moving
Furniture manufacturing / Interiors

Your advantages with Clamex P

Aesthetic solution
– Differentiation to furniture standards

Stackable with pre-installed connectors
– 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.

Store fixture / Kitchen manufacturing

Your advantages with Clamex P

Stackable with pre-installed connectors
– 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 | trade show exhibits | changing rooms | stools | etc.
**Tenso P**
Self-clamping connectors for gluing

**Tenso P, advantages and properties**
- **Glue faster,** wipe off excess glue and it’s ready
- **High clamping force,** without clamps or presses
- **Perfect aesthetics,** completely invisible

- **Versatile,** simple gluing at various angles
- **Tool-free connector installation,** quick and easy without screws or adhesive
- **Effortless connection** of large workpieces on site

Tenso P glued in **40”**

The Tenso P has an exceptionally high clamping force, which enables workpieces to be glued without clamps or presses.

Based on the P-System profile groove, the Tenso P ensures firm anchorage in the workpiece in seconds without tools.

**Tenso P is a self-clamping connector with three functions: alignment, clamping and connecting**
Use without preload clip

The Tenso is ideal without preload clip for smaller items of furniture when only one or two connectors are used. Smaller workpieces and 90° connections in particular are easily glued without the preload clip.

Use with preload clip

The Tenso with preload clip is ideal for larger elements where several connectors are connected simultaneously as well as for mitres.

Advantages with the preload clip:
- Greater sliding tolerance during assembly
- Less effort during connection
- Effortless connection with several connectors

Place preload clip on the insertion tool
1. Preload the Tenso P-14
2. Apply glue
3. Join workpieces
4.

Note:
- Dry assembly is possible with Bisco P
- Additional adhesive in the connector increases the tensile strength by 30%
- The adhesive must be suitable for the workpieces and their specific applications

max. 30 min
Tenso P-14
Faster gluing at all angles

The Tenso P-14 is a self-clamping connector with a cutting depth of 14 mm for:

- 45° mitres from a panel thickness of 18 mm
- 90° connections for a panel thickness from 15 mm
- Centre panel connections from a panel thickness of 19 mm

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

Clamping force (N)
per connector ~ 150 or 30 lb
The tensile or shear strength depends on the adhesive

<table>
<thead>
<tr>
<th>Tenso P-14</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box of 80 pairs (without preload clip)</td>
<td>145415</td>
</tr>
<tr>
<td>Box of 300 pairs (without preload clip)</td>
<td>145425</td>
</tr>
<tr>
<td>Box of 1000 pairs (without preload clip)</td>
<td>145435</td>
</tr>
<tr>
<td>Starter-Set – box of 80 pairs (with preload clip)</td>
<td>145415S</td>
</tr>
<tr>
<td>Starter-Set – box of 300 pairs (with preload clip)</td>
<td>145425S</td>
</tr>
<tr>
<td>Preload clip – box of 300 pieces</td>
<td>145426</td>
</tr>
<tr>
<td>Preload clip – box of 1000 pieces</td>
<td>145436</td>
</tr>
</tbody>
</table>

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

Offset installation with Tenso P-14

Accessories starting page 98
**Tenso P-10**

Self-clamping connector for gluing thin materials from a thickness of 12 mm

The Tenso P-10 is a self-clamping connector with a cutting depth of 10 mm for:
- 45° mitres from a panel thickness of 15 mm
- 90° connections from a panel thickness of 12 mm
- Centre panel connections from a panel thickness of 16 mm

---

**Technical data**

- **Size**: 52 × 27 × 9.7 mm
- **Cutter**: Ø 100.4 × 7 × 22
- **Material**: fiberglass reinforced plastic
- **Installation tolerance**: longitudinal ± 1 mm

**Clamping force (N)** per connector: ~ 100 or 20 lb

The tensile or shear strength depends on the adhesive

**Tenso P-10**

<table>
<thead>
<tr>
<th>Box of 80 pairs (with preload clip)</th>
<th>145418</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box of 300 pairs (with preload clip)</td>
<td>145428</td>
</tr>
<tr>
<td>Box of 1000 pairs (with preload clip)</td>
<td>145438</td>
</tr>
</tbody>
</table>

---

**Important:**
The aligning element Bisco P-10 is ideal to dry-assemble the joints before gluing

**Accessories starting** page 98

---

**Offset installation with Tenso P-10**

Part no. 145439

P-System 4 mm depth adjuster attachment for P-8
Tenso P – Applications

Furniture manufacturing / Interiors

Your advantages with Tenso P

**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
- Gluing of shaped workpieces
- Simultaneously aligns and clamps

- Gluing
- Invisible
- High clamping force
- Versatile
- Lower assembly force

- Fast installation
- Strong
- Lateral tolerance
- Shallow cutting
- No twisting

**Applications**
- furniture | shelves | stools | sideboards | wardrobes | wall panels | cladding | decorative strips | covering panels | plinths | face frames etc.

**Production process**

1. **Cutting the groove with Zeta P2**
   - Quick, easy and precise work with the well-known Lamello system

2. **Temporary storage**
   - Small volume due to stackability with pre-installed connectors
   - Remove connectors without tools for the surface treatment

3. **Assembly in the factory**
   - Quick and efficient gluing
   - No additional clamping device necessary
   - No pressure marks and damage due to protectors or clamps on the workpiece
   - Excess glue is removed with ease right after assembly
   - Furniture is automatically in the correct angle
   - No additional person helping with applying the clamps

4. **Delivery: product already assembled**
   - Short assembly time on site with pre-assembled elements / furniture parts
Store fixtures
Your advantages with Tenso P

Stackable with pre-installed connectors
- Advantages in packaging, transport and logistics

Short assembly time on-site
- Quick and easy gluing without additional aids
- Minimal installation cost

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

Applications
furniture | shelves | stools | sideboards | wardrobes | show cases | sales counters | wall panels | cladding | face frames etc.

Production process

1. Cutting the groove with CNC
   - Same profile groove for both workpieces
   - Direct data transfer from CAD / CAM

2. Temporary storage
   - Small volume with pre-installed connectors due to stackability
   - Remove connectors without tools for the surface treatment

3. Delivery: product in parts
   - Small transport volume (flat pack)
   - Easier transport of the workpieces to the job site
   - Reduced amount of assembly aids without the need of clamps and protectors

4. Assembly on site
   - Quick and efficient assembly on site
   - No waiting time before the clamps are removed
   - No transporting clamps and protectors to and from the job site
   - Customer-friendly, quick and clean installation
Divario P
Self-clamping, invisible connector for slide insertion

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

- Narrow element for the use in **shelves from 18 mm**
- No resistance while inserting until shortly before building the clamping force
- **Insertion of shelves** after transport for lower transport weight

Divario P-18
Self-clamping, invisible connector for slide insertion

**Technical data**
Element with P-System groove .... 65 × 16 × 9.7 mm
Element with drill holes ............... Ø 8 × 9 mm, distance 32 mm
Cutter ..................................... Ø 100.4 × 7 × 22
Material .................................... fiberglass reinforced plastic
Installation tolerance ..................... longitudinal ± 1 mm

**Load per connector (N)**

<table>
<thead>
<tr>
<th>19 mm</th>
<th>22 mm</th>
<th>25 mm</th>
<th>30 mm</th>
</tr>
</thead>
<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>
</tbody>
</table>

**Tensile strength (N)**
all materials 600

**Divario P-18**
Starter-Set 80 pairs incl. Installation tool ...................... 1455505
Starter-Set 80 pairs in Systainer Size I, incl. installation tool and marking jig in metal .......... 145551
Box of 80 pairs .................................................. 145550
Box of 300 pairs .................................................. 145560
Box of 1000 pairs ................................................. 145570
Divario P-18 installation tool required for installation ............................................. 125500

Accessories starting page 98
Furniture manufacturing / Interiors

Your advantages with Divario P-18

Efficient installation
– Connector 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.

interzum Award
Best of the best
2015

CWELLER + ASSOCIATES
Joining with the P-System Zeta P2
Zeta P2
The machine for the evolving P-System, saving you time daily! Differentiate your products from the standard!

Make more with your time!

Fastest joining system with a power tool
Connection is complete within seconds, without waiting time, clamps, or secondary processes

Connected in seconds with Clamex – detachable

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>25 s</td>
<td>15</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Ready in</td>
<td>50 s</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Connected in seconds with Tenso – glued

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>25 s</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>Ready in</td>
<td>40 s</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Zeta P2 – versatile and fast

Advantages and properties
- Zeta P2, the power tool for fast, form-locking anchorage of all P-System connectors for wood joints
- The automatic vertical movement creates a profile groove enabling manual insertion of the connectors
- Time saving when installing connectors due to the innovative profile groove concept. Insertion of the connectors by hand, without using glue or screws, greatly reduces labor time while also negating the need for additional fastening materials

Profile groove function
The vertical mechanical drive is the core of the machine
- Fast ~ 1 second
- User-friendly with automatic operation of the cutting process
- Switch off the VMD to use the machine as a standard biscuit joiner for many more applications (see page 50)

Vertical mechanical drive (VMD)

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

Zeta P2-Set
with carbide tipped profile groove cutter in Systainer... 101402S
with diamond tipped profile groove cutter in Systainer... 101402DS

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

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

Accessories starting page 98
With the Zeta P2, you can quickly and easily connect parts with a range of angles and joining situations. Suitable for individual pieces of furniture as well as prototypes and line production.

**90° corner or dividing panel connection**

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

**Miter connection 45° – 180°**

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

**Obtuse miter connection, 22.5° – 120°**

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

**Working with center marking**

1. Cut and mark the center of the cut
2. Copy the center to the second workpiece
3. Align the Zeta P2 with the marking
4. Produce connections at all angles
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:

CNC partner network

Installation options with CNC

CNC machines with pod and rails

CNC machines with nesting technology

Vertical CNC machines

CNC machines with optional equipment for particularly efficient processing using the Lamello P-System
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 center 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**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mm, solid carbide, for miters, L = 100 / 35 mm, shaft = 10</td>
<td>131556</td>
</tr>
</tbody>
</table>

**P-System CNC groove cutter, Ø 100.4 × 7**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>× 30 mm, 4 / 6.6 / DTK 48 mm, Z3, suitable for all cutter arbors listed below</td>
<td>132142</td>
</tr>
<tr>
<td>× 30 mm, 4 / 6.6 / DTK 48 mm, Z6, suitable for all cutter arbors listed below</td>
<td>132145</td>
</tr>
<tr>
<td>× 40 mm, 4 / 5.5 / DTK 52 mm, Z3</td>
<td>132143</td>
</tr>
<tr>
<td>E.g. for angle aggregates, Flex 5, Flex 5+</td>
<td></td>
</tr>
<tr>
<td>× 16 mm, 4 / 5.5 / DTK 28 mm, Z3</td>
<td>132144</td>
</tr>
<tr>
<td>E.g. for corner notching aggregate</td>
<td></td>
</tr>
<tr>
<td>× 35 mm, 4 / 5.5 / DTK 50 mm, Z3</td>
<td>132148</td>
</tr>
<tr>
<td>e.g. for Brema Eko 2.1 and for Masterwood Project TF 100</td>
<td></td>
</tr>
</tbody>
</table>

**P-System CNC cutter arbors 30 / DTK 48 mm**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft Ø 20 × 50, L = 102 mm</td>
<td>132150</td>
</tr>
<tr>
<td>Shaft Ø 25 × 60, L = 102 mm</td>
<td>132151</td>
</tr>
<tr>
<td>Shaft Ø 16 × 50, L = 85 mm</td>
<td>132152</td>
</tr>
<tr>
<td>Shaft Ø 16 × 55, L = 68 mm</td>
<td>132153</td>
</tr>
<tr>
<td>Shaft Ø 16 × 50, L = 85 mm, with clamping surface (2°- angle)</td>
<td>132154</td>
</tr>
<tr>
<td>E.g. for aggregate for door locks</td>
<td></td>
</tr>
<tr>
<td>Shaft Ø 20 × 50, L = 85 mm, with clamping surface (2°- angle)</td>
<td>132155</td>
</tr>
<tr>
<td>E.g. for aggregate for door locks</td>
<td></td>
</tr>
<tr>
<td>M6 × 16 mm Torx countersunk bolt, 4 pcs, suitable for cutter arbors</td>
<td>132159</td>
</tr>
<tr>
<td>Screwdriver with cross-grip, Torx T20 x 100</td>
<td>271919</td>
</tr>
</tbody>
</table>

**P-System CNC shaft tool cutter**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid carbide, shaft Ø 12 × 40, L = 80 mm</td>
<td>131342</td>
</tr>
<tr>
<td>Only for machining panel centers with 5 axis CNC machines</td>
<td></td>
</tr>
</tbody>
</table>

**Positioning pins for Zeta P2**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 5 mm, 1 pairs</td>
<td>251048</td>
</tr>
<tr>
<td>Ø 8 mm, 1 pairs</td>
<td>251066</td>
</tr>
<tr>
<td>For positioning in holes with a diameter of Ø 5 mm or 8 mm</td>
<td></td>
</tr>
</tbody>
</table>

**Positioning clip for Zeta P**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 6 mm</td>
<td>251067</td>
</tr>
<tr>
<td>For positioning in the Clamex access hole (6 mm)</td>
<td></td>
</tr>
</tbody>
</table>
### 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>Machines</th>
<th>Axes</th>
<th>Equipment (Varies depending on machine and aggregate)</th>
<th>Surface</th>
<th>Corner</th>
<th>Center wall</th>
<th>Miter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portal 3/4</td>
<td>–</td>
<td>1 × P-System cutter</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × cutter arbor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>2 × P-System cutter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>(2) × cutter arbor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × P-System cutter</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × cutter arbor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portal 4</td>
<td>–</td>
<td>1 × P-System cutter + adaptor</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × P-System drill Ø 6 mm + adaptor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Portal 5</td>
<td>–</td>
<td>1 × P-System cutter</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × cutter arbor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nesting 3/4</td>
<td>–</td>
<td>1 × drill Ø 5 mm</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nesting 5</td>
<td>–</td>
<td>1 × P-System cutter</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
<td>⚫️</td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × cutter arbor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>–</td>
<td>1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Possible**

**Possible with shaft tool**

**Not possible**

More on page 46
Advantages in the production process

1. P-System groove with CNC
   - Same profile groove for both workpieces
   - Short process time
   - Less processing than for other connection methods
   - Direct data transfer from CAD / CAM

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

3. Delivery: in parts
   - Smaller transport volume without damaging the parts
   - Easy transport of the parts into the building (stairs, elevator)

4. Assembly on site
   1. Easy assembly by customer possible
   2. Assembly by sales staff or installer
      - Shorter assembly time on site

Aggregates

A Angle aggregate

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

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

B Manually adjustable swivelling aggregates

Information: The use of several aggregates is required. Several tool changes required for angle cuts, drilling and P-System grooves
Information: The cutting depth in the center of the surface may be restricted depending on the model
Tip: For miters, spare yourself a tool change and drill the hole using a manual drill jig!

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

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

Information: The use of several aggregates is required. Several tool changes required for angle cuts, drilling and P-System grooves
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Please see our website for more information

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Aggregates

Please see our website for more information
Ideas for standardizing 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.

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

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 pin Zeta P2

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Ø 5 mm</th>
<th>Ø 8 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>251048</td>
<td>251066</td>
<td></td>
</tr>
</tbody>
</table>

Positioning clip for Zeta P2

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Ø 6 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>251067</td>
<td>For positioning in the Clamex access hole (6 mm)</td>
</tr>
</tbody>
</table>

Clamex P-14, element with the lever

Part no. 145338

Clamex P-10, element without lever

Part no. 145358

Clamex P-10, element Medius

Part no. 145369
Cutting the groove in the surface

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 6 mm

2. Insert the positioning clip

3. Insert the positioning clip in the drill hole Ø 6 mm

4. Cut the groove with the positioned machine
Lamello-System

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

Mr Antonio Orlando, Head of Production Ladenmacher AG in Hägendorf, Switzerland
Joining with the
Lamello System
An exceptionally efficient, simple and precise joining system for panels

How it works


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

Advantages and properties

**Fast** – Lateral sliding tolerance

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

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

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

**Precise** – Established cutting principle with disc cutter

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

**Versatile** – Thin flat joining element with minimal installation depth

- Join thin workpieces 8 or 10 mm in many various angles
- Minimal material weakening
- Non-rotating, cost effective joining elements
**Versatile applications** with a wide range of joining elements

<table>
<thead>
<tr>
<th>Without tool change</th>
<th>With tool change</th>
</tr>
</thead>
<tbody>
<tr>
<td>20</td>
<td>H9</td>
</tr>
<tr>
<td>E20-L</td>
<td>Clamex S-18</td>
</tr>
<tr>
<td>10</td>
<td></td>
</tr>
<tr>
<td>E20-H</td>
<td></td>
</tr>
<tr>
<td>0</td>
<td></td>
</tr>
<tr>
<td>K20</td>
<td></td>
</tr>
<tr>
<td>C20</td>
<td></td>
</tr>
<tr>
<td>C10</td>
<td></td>
</tr>
<tr>
<td>Simplex</td>
<td></td>
</tr>
</tbody>
</table>

...and many more additional benefits

- **Cut grooves**
  Cut grooves for tongue and groove connections, using 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
The original wooden biscuit

The Original
Swiss production
Swiss timber
Lamello quality

Advantages and properties

1. Rounded smooth edges
   - Easy handling and insertion

2. Recessed & embossed glue surface
   - Accurate glue distribution
   - Easy insertion into groove

3. Diagonal fiber orientation
   - Excellent breaking strength

Wood biscuits

<table>
<thead>
<tr>
<th>Carton</th>
<th>Size</th>
<th>Quantity</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Size 20. 56 × 23 × 4 mm</td>
<td>1000 pieces</td>
<td>144020</td>
</tr>
<tr>
<td></td>
<td>Size 10. 53 × 19 × 4 mm</td>
<td>1000 pieces</td>
<td>144010</td>
</tr>
<tr>
<td></td>
<td>Size 0. 47 × 15 × 4 mm</td>
<td>1000 pieces</td>
<td>144000</td>
</tr>
<tr>
<td></td>
<td>Size H9. 38 × 12 × 3 mm</td>
<td>1000 pieces</td>
<td>144009</td>
</tr>
<tr>
<td></td>
<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>
<td></td>
</tr>
</tbody>
</table>

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

Minicol

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

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

175500

---

Glue applicator Minicol

<table>
<thead>
<tr>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>175500</td>
</tr>
</tbody>
</table>

---

Nozzles for Minicol

<table>
<thead>
<tr>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>335511</td>
</tr>
<tr>
<td>285512</td>
</tr>
<tr>
<td>335522</td>
</tr>
<tr>
<td>285509</td>
</tr>
</tbody>
</table>

Accessories starting page 102

---

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

Clamping Set

<table>
<thead>
<tr>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>175021</td>
</tr>
<tr>
<td>175020</td>
</tr>
</tbody>
</table>

Parts

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 pieces</td>
<td>175005</td>
</tr>
<tr>
<td>8 m clamping belt</td>
<td>175008</td>
</tr>
<tr>
<td>4 pieces profile sections 20 cm</td>
<td>175050</td>
</tr>
<tr>
<td>2 pieces 8 m belt</td>
<td>335000</td>
</tr>
<tr>
<td>4 pieces profile sections 60 cm</td>
<td>175401</td>
</tr>
<tr>
<td>2 pieces tension hooks</td>
<td>175402</td>
</tr>
<tr>
<td>length 12 cm</td>
<td>175403</td>
</tr>
</tbody>
</table>

Clamex S connector
For aesthetic constructions. Detachable, flexible and easy. Installation in an 8 mm 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 miters in all angles
– Stackable, since no parts protrude from the surface, so ideal for flat packing
– Easy installation with any Lamello biscuit joiner

Applications of Clamex S
– Detachable furniture joints
– Surface, corner and dividing wall connections
– All angles
– Frame connections
– Dividing walls
– Glue aid

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

Clamex S-18  Part no.
18 pairs ................................................. 145231
80 pairs .................................................. 145236
300 pairs ............................................ 145241
1000 pairs ........................................... 145251

Accessories starting page 98

How it works
Clamex S-18 installation with cutter Ø 100 × 8 × 22 mm (Part no.132108)

1. Cut groove, 8 mm  
2. Drill hole 6 mm  
3. Screw in the Clamex S  
4. Connect, finished!
E20
The self-clamping element

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!

Advantages and properties
- Connects and clamps with one strike. The curved ridges clamp the connection together during insertion.
- Cut groove in both workpieces 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 × 11.5 × 4 mm
Size E20-H .................................. 23 × 28 × 4 mm
Cutter ......................................... Ø 100 × 4 × 22
Material ...................................... Fiberglass reinforced plastic

E20 Quantity Part no.
E20-H ......................................... 80 pieces ................... 145021
........................................... 400 pieces ................... 145026
........................................... 1200 pieces .......... 145028
E20-L ......................................... 80 pieces ................... 145022
........................................... 400 pieces ................... 145025
........................................... 1200 pieces .......... 145027
E20-L / E20-H .............................. 40 pieces per type ....... 145020
K20
Clamping element

**Advantages and properties**
Clamping aid for workpieces which are difficult to clamp, e.g. bulkheads, 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>Part 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 transparency

**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>Part 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>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>54 x 23 x 4.1</td>
<td>50 pairs</td>
<td>166101</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 pairs</td>
<td>166100</td>
</tr>
<tr>
<td>Inserting tool for Simplex</td>
<td>(For accurate positioning of Simplex)</td>
<td></td>
<td>166110</td>
</tr>
</tbody>
</table>
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 workpiece's outer edge

**Vertical stability** by attaching to the baseplate to increase the surface

**Perfect precision of miters** 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 center)

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 workpiece
- **Long-life precision guide** provides exact, parallel grooves for perfect fit of the workpieces
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 motor, ergonomic slim shape
– Base plate is flush on both sides for efficient positioning of the machine on the workpiece
– High-precision machined guide and application surfaces for perfect fit of the workpieces
– Multifunctional stop square
– Versatile use, (see p 50)
– Swivelling front stop 0–90° with detents at 22.5°, 45°, 67.5°, 90°
– Rotating depth adjuster with 6 standard depths

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

Versatile applications

Joint with biscuits

Joint with Clamex S

Wood repairs

Central lock

Swivelling front and base plate are flush on the sides

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

Accessories starting page 100
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 workpiece (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. Powerful 800 W motor
   - Powerful, electronically controlled motor with soft start, constant speed control, overload protection and restart protection
   - Service friendly, minimal cost for maintenance and repair

3. Precision cutter
   with 4 scoring teeth and hub

4. Including dust bag
   and adapter Ø 36 mm

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

Top 21  Part no.
in systainer ......................................................... 101500S
in systainer with carbide reversing blade cutter .......... 101500SW

Kit contains
Top 21 with:
- carbide tipped cutter
- suction stub 23 mm
- stop square
- spacer 4 mm
- suction stub 36 mm
- dust bag
- tool set

Accessories starting page 100
Drilling systems

„The Cabineo saves time – machining and assembly takes seconds, which significantly impacts the production chain.“

Christoph Büchi, Managing Director, Schreinerei Büchi AG in Liestal, Switzerland
Connecting with the Cabineo
Cabineo, the CNC connector of the future. Simple, Fast and Strong!

How it works

1. CNC – surface machining
2. Insert one-piece connector
3. Deliver flat-pack
4. Connect the workpieces

Advantages and properties

No edge drilling
No dowel holes
One-piece and pre-installed
Fast Assembly

High clamping force
Panels from 12 mm thickness
Installation of fixed shelves in assembled units
Simple, Fast and Strong
Cabineo

Time-saving furniture connector without edge drilling and with very high clamping force

Advantages and features
- Process optimization due to clean surface machining;
  No horizontal boring required!
- Reduced height of 10mm for panel thicknesses of 12 mm or more
- One-piece connector without dowel; no need for preassembly of screws or dowels in the side sections

Technical data
Size ............................................. 33.8 × 16.5 × 10.8 mm
Cutter ......................................... Ø 12 mm or smaller
Drill ............................................. Ø 5 mm and Ø 15 mm
Material housing ......................... Fibre-glass reinforced plastic
Installation tolerace ..................... Longitudinal ± 0.1 mm

Technical values without dowel
particle board 19mm  Cabineo 12  Cabineo 8
Tensile strength 900 N or 200 lb 500 N or 110 lb
Shear strength 850 N or 190 lb 550 N or 120 lb
Clamping force 900 N or 200 lb 500 N or 110 lb
10 N ~ 1 kg

Flat-pack delivery with preassembled connectors
Possible disassembly for transportation or if the fixed shelves need to be adjusted
Possibility of retroconnector fixed shelves or vertical partitions in a cabinet that has already been installed

Accessories starting page 101
Cabineo – Machining

1. Time-saving in production
   - 4 surface processing steps
   - 1 tool change

2. Time-saving in transportation
   - Fit Cabineo into top or bottom shelf

3. Time-saving in the assembly
   - Flat pack the workpieces
   - Assemble using a cordless drill

Cam and dowel

1. Time-saving in production
   - 3 surface processing steps
   - 2 tool changes

2. Time-saving in transportation
   - 2 edge drill holes
   - 1 tool change

3. Time-saving in the assembly
   - Prepare connector bag
   - Flat pack the workpieces
   - Insert cam into shelf
   - Insert the screw in the side
   - Insert dowel into the side
   - Assemble using a screwdriver

CNC-Connector – efficient machining with all CNC machines

- CNC processing centres with consoles
- CNC processing centres with nesting technology
- Vertical CNC processing centres
- CNC router
- Drilling and insertion machines

Processing – the Cabineo can be drilled or machined

Drill Ø 5 mm (HPL -> Ø 5.5 mm) | Cabineo 8: X = 8 mm (Black screw) | Cabineo 12: X = 12 mm (Nickel plated screw)

Installation options

1. On the surface
2. Flush with the surface
3. Flush cover cap

Download Manual
**Clever assembly**

Delivered as flat pack. Pre-installed screws for faster assembly.

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

Join furniture components with a cordless screwdriver and the Cabineo tool. Easy and fast with a preset torque of about 2.5 Nm.

Position cover and push towards the furniture side.

Screw front corner in place with a cordless screwdriver. This makes one-person assembly easy.

After assembly, fasten the fixed intermediate shelves in the required positions.

Tip:
- Place one side of the shelf on the shelf support and fasten the other side
- Screws loosened flush simplify installation

If required, use cover caps on the Cabineo.

**Walk-in closets**

Retrofit fixed shelves into an already assembled wardrobe.
**Store fixtures**
- High stability

**Walk-in wardrobes**
- Blends in with dark materials in the background

**Kitchens**
- Aesthetic with cover caps in various colors

**Furniture with thin materials**
- From 12mm, also in HPL material
Joining with the
Invis Mx2 System
Magnet-driven connections with an even higher clamping force!

Invisible as if glued, versatile as if screwed!

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

Kits

Invis Mx2 Starter Kit (in systainer) .................. 6100300
– MiniMag Mx2
– 20 Invis Mx2 connector sets with 14 mm stud
– Rasto drill jig with 12 mm drill bit, depth adjuster, bushing
– Screw bit
– Flexible shaft
– Insertion jig

MiniMag Mx2 Kit (in cardboard box) .................. 6100301
MiniMag Mx2, screw bit

Invis Mx2 connector set

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Part no.</th>
</tr>
</thead>
</table>
| with 14 mm stud ............................ 20 pieces 6012300
| with 30 mm stud ............................ 20 pieces 6012301

<table>
<thead>
<tr>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6012317</td>
</tr>
<tr>
<td>6012312</td>
</tr>
<tr>
<td>6012309</td>
</tr>
<tr>
<td>6012208</td>
</tr>
<tr>
<td>6112205</td>
</tr>
<tr>
<td>6100204</td>
</tr>
<tr>
<td>6112333</td>
</tr>
</tbody>
</table>
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 workpiece or aligning to a pencil mark. Due to its approximately 180 positioning holes Rasto can be used for nearly any shape, thickness or size.

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

Holes in the center of 16 and 19 mm panels

Holes in the center of any workpiece thickness

Miter connections
Dividing wall connections
Furniture handle holes and 32 mm hole rows

32 mm hole rows by referencing from the last hole
8 mm or 12 mm hole rows by referencing from the last hole
## Tables

### Handrails

1. Position the pins and drill the handrail
2. Screw in the connectors
3. Drill the opposite side using the same pin position
4. Screw in the studs
5. Connect using MiniMag Mx2

### Applications of Rasto

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

### Rasto

#### Basic Kit

Part no. 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

Part no. 126001

In a systainer: 1 transparent perforated plate, 4 drill bushings Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm, 3 positioning bolts, 1 fastening screw, 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

#### Duo Kit

Part no. 126002

In a systainer: 2 transparent perforated plates, 8 drill bushings 2 × Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm, 6 positioning bolts, 2 fastening screws, 1 connection rod, 1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

### Accessories

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

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>6100160</td>
<td>Wood drill bit with centring tip for Rasto drill jig:</td>
</tr>
<tr>
<td></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 with rubber pads</td>
</tr>
<tr>
<td>6112331</td>
<td>Invis Mx2 spacer for Rasto</td>
</tr>
<tr>
<td>6112330</td>
<td>Invis Mx2 insertion bush for studs 14 mm</td>
</tr>
</tbody>
</table>
Joining with the Gluing System
An ingenious gluing 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”
Optimize glue application: precisely set the ideal quantity.

Exact

“Exactly where I want it”
Improve quality: precisely apply in the correct position, optimize joint strength

Efficient

“As fast as possible”
Save time: apply efficiently with the correct nozzle, minimize cleaning requirement
**Glue applicators**
**LK 3, LK 5, LK 10**
Glue applicator for water soluble glues

---

**Advantages and features of the glue applicators**
- **Stainless steel pressure tank** guarantees a long service life
- **Minimal cleaning required** due to the user-friendly design (only the pisto end and nozzle)
- **One single pressurization** suffices to dispense the entire 10, 5 or 3 kg capacity (even after an extended time period)
- **Complete and ready to use** with standard equipment
- **Modularly expandible**

**Advantages and features of the glue pistols**
- **Glue quantity regulation** with easy manual control
- **Drip free and easy to clean**
- **Bayonet coupling** for speedy nozzle changing
- **Easy to service**

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

**Technical data**
- **Size** ................................ LK 3 ............ Ø 210 × 220 mm
  LK 5 ............ Ø 210 × 340 mm
  LK 10 .......... Ø 285 × 410 mm
- **Capacity** ............................... LK 3 ............ 3 kg or 1 gal
  LK 5 ............ 5 kg or 1.5 gal
  LK 10 ........... 10 kg or 3 gal
- **Operating pressure** ................... 1 – 5 bar
Glue applicators

**LK 3**
Glue applicators incl. hose, glue pistols and pointed nozzle............................................................ **502003**

**LK 5**
Glue applicators incl. hose, glue pistols and pointed nozzle............................................................ **502005**

**LK 10**
Glue applicators incl. hose, glue pistols and pointed nozzle............................................................ **502010**

incl. connection option for a second hose

**Kit contains (LK 3 / LK 5 / LK 10)**
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

Glue pistols

**LK 0**
Application Part no.
LK 0.................................for manual operation......................................................... **512200**

Accessories starting page 102
Glue nozzles

Lamello glue nozzles are anodized, 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>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brush</td>
<td>40 mm</td>
</tr>
<tr>
<td></td>
<td>60 mm</td>
</tr>
<tr>
<td>Adjustable nozzle</td>
<td>10 – 22 mm</td>
</tr>
<tr>
<td></td>
<td>23 – 42 mm</td>
</tr>
<tr>
<td></td>
<td>40 – 62 mm</td>
</tr>
<tr>
<td>Pointed nozzle</td>
<td></td>
</tr>
<tr>
<td>Round nozzle</td>
<td>5/4 x 30 mm</td>
</tr>
<tr>
<td>Adjustable guide</td>
<td>0 – 25 mm for pointed / round nozzle</td>
</tr>
</tbody>
</table>

for grooves

<table>
<thead>
<tr>
<th>Size</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>U nozzle glue outlets in the groove</td>
<td>4 x 5 mm</td>
</tr>
<tr>
<td></td>
<td>4 x 8 mm</td>
</tr>
</tbody>
</table>
### for surfaces

<table>
<thead>
<tr>
<th>Size</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Surface roller</td>
<td>180 mm with rubber roller</td>
</tr>
<tr>
<td>Replacement roller</td>
<td>180 mm width</td>
</tr>
<tr>
<td>Gluing brush</td>
<td>50 × 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>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dowel nozzle</td>
<td>Ø 6 × 20 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 8 × 25 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 8 × 32 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 3/8” × 30 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 10 × 30 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 12 × 40 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 14 × 40 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 15 × 45 mm</td>
</tr>
<tr>
<td></td>
<td>Ø 16 × 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 × 30 × 4 mm (plastics)</td>
</tr>
</tbody>
</table>

* according to your requirements
Repairing with the Minisspot 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 wood defect
2. Apply the glue
3. Insert the Minispot patch

Advantages and properties

System solution

“Where all parts match”
– All necessary components such as machines, templates, cutters and patches are made for a precise fit

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

G2A

The Minispot grooving machine to cut grooves for patch size 2

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

<table>
<thead>
<tr>
<th>Power</th>
<th>780 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Version</td>
<td>230 V</td>
</tr>
<tr>
<td>Speed</td>
<td>10’000 min⁻¹</td>
</tr>
<tr>
<td>Cutter</td>
<td>Carbide tipped Minispot cutter size 2</td>
</tr>
<tr>
<td>Max. groove width</td>
<td>8 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3.1 kg</td>
</tr>
</tbody>
</table>

Minispot G2A

<table>
<thead>
<tr>
<th>Part no.</th>
<th>111702</th>
</tr>
</thead>
</table>

Kit contains

Machine with:
carbide cutter, tool set, manual

Accessories

<table>
<thead>
<tr>
<th>Milling jig for Minispot patching rods</th>
<th>Part no.</th>
<th>121702</th>
</tr>
</thead>
<tbody>
<tr>
<td>85 / 250 / 500 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>for G20 / G20 S2 / G2A</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Patches can be found on pages 84 – 85
Accessories starting page 103
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>2</td>
<td>8</td>
<td>13</td>
<td>69</td>
<td>500</td>
</tr>
<tr>
<td></td>
<td>20</td>
<td>20</td>
<td>11</td>
<td>65</td>
<td>160</td>
</tr>
<tr>
<td></td>
<td>20 K</td>
<td>20</td>
<td>17</td>
<td>81</td>
<td>55</td>
</tr>
<tr>
<td></td>
<td>22</td>
<td>15</td>
<td>13</td>
<td>69</td>
<td>200</td>
</tr>
<tr>
<td></td>
<td>4</td>
<td>15</td>
<td>20</td>
<td>81</td>
<td>200</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 2 100 pieces</th>
<th>Size 2 500 pieces</th>
<th>Size 4 200 pieces</th>
<th>Size 20 160 pieces</th>
</tr>
</thead>
<tbody>
<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 0104</td>
<td>.15 0120</td>
</tr>
<tr>
<td>Nordic spruce³</td>
<td>.15 0202 K100</td>
<td>.15 0202*</td>
<td>.15 0204</td>
<td>.15 0220*</td>
</tr>
<tr>
<td>Spruce, not glued</td>
<td>.15 0002U K100</td>
<td>.15 0002U</td>
<td>.15 0004U</td>
<td>.15 0020U</td>
</tr>
<tr>
<td>Pine¹</td>
<td>.15 0302 K100</td>
<td>.15 0302*</td>
<td>.15 0304</td>
<td>.15 0320</td>
</tr>
<tr>
<td>Nordic pine³</td>
<td>.15 0402 K100</td>
<td>.15 0402*</td>
<td>.15 0404</td>
<td>.15 0420*</td>
</tr>
<tr>
<td>Beech nat.</td>
<td>.15 0702 K100</td>
<td>.15 0702*</td>
<td>.15 0704</td>
<td>.15 0720</td>
</tr>
<tr>
<td>Larch</td>
<td>.15 0802 K100</td>
<td>.15 0802*</td>
<td>.15 0804</td>
<td>.15 0820*</td>
</tr>
<tr>
<td>Silver fir</td>
<td>.15 1102 K100</td>
<td>.15 1102*</td>
<td>.15 1104</td>
<td>.15 1120</td>
</tr>
<tr>
<td>Beech</td>
<td>.15 1602 K100</td>
<td>.15 1602*</td>
<td>.15 1604</td>
<td>.15 1620</td>
</tr>
<tr>
<td>Larch Siberian</td>
<td>.15 5202 K100</td>
<td>.15 5202*</td>
<td>.15 5204</td>
<td>.15 5220</td>
</tr>
<tr>
<td>Douglas fir / Oregon Pine</td>
<td>.15 2902 K100</td>
<td>.15 2902</td>
<td>.15 2904</td>
<td>.15 2920</td>
</tr>
<tr>
<td>Oak</td>
<td>.15 3002 K100*</td>
<td>.15 3002*</td>
<td>.15 3004</td>
<td>.15 3020</td>
</tr>
<tr>
<td>Meranti</td>
<td>.15 3202 K100</td>
<td>.15 3202*</td>
<td>.15 3204</td>
<td>.15 3220</td>
</tr>
<tr>
<td>Walnut</td>
<td>.15 3502 K100</td>
<td>.15 3502</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Jumbo Box

<table>
<thead>
<tr>
<th>Jumbo Box</th>
<th>1500 pieces</th>
<th>500 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>.15 0002J*</td>
<td>.15 0020J</td>
</tr>
<tr>
<td>Larch</td>
<td>.15 0802J</td>
<td>.15 0820J</td>
</tr>
<tr>
<td>Pine</td>
<td>.15 0302J</td>
<td>.15 0320J</td>
</tr>
</tbody>
</table>

### Industrial package

<table>
<thead>
<tr>
<th>Industrial package</th>
<th>7000 pieces</th>
<th>200 pieces</th>
<th>2500 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>.15 0002I*</td>
<td>.15 0004I</td>
<td>.15 0020I</td>
</tr>
<tr>
<td>Spruce nat.²</td>
<td>.15 0102I</td>
<td>.15 0104I</td>
<td>.15 0120I</td>
</tr>
<tr>
<td>Nordic spruce³</td>
<td>.15 0202I</td>
<td>.15 0204I</td>
<td>.15 0220I</td>
</tr>
<tr>
<td>Pine³</td>
<td>.15 0302I</td>
<td>.15 0304I</td>
<td>.15 0320I</td>
</tr>
</tbody>
</table>

### Edge patches

<table>
<thead>
<tr>
<th>Edge patches</th>
<th>Size 20K</th>
<th>55 pieces</th>
<th>850 pieces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>.15 0023</td>
<td>.15 0023I</td>
<td></td>
</tr>
<tr>
<td>Larch Siberian</td>
<td>.15 5223</td>
<td>.15 5223I</td>
<td></td>
</tr>
</tbody>
</table>

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

* In stock / All other products in various sizes are available on request
Delivery approx. 2–5 weeks
Articles not in stock cannot be returned.
### Patches

<table>
<thead>
<tr>
<th>Multibox</th>
<th>Quantity</th>
<th>Size</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>with Minispot patches assorted</td>
<td>12 x 50 pieces</td>
<td>2</td>
<td>156580</td>
</tr>
</tbody>
</table>

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>Quantity</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>2</td>
<td>85 mm</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>250 mm</td>
<td>220</td>
<td>15 0020L08</td>
</tr>
<tr>
<td></td>
<td>500 mm</td>
<td>100</td>
<td>15 0020L50</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>2</td>
<td>250 mm</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm</td>
<td>100</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>20</td>
<td>85 mm</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 mm</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm</td>
<td>100</td>
</tr>
<tr>
<td>Pine</td>
<td>2</td>
<td>250 mm</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm</td>
<td>100</td>
</tr>
<tr>
<td>Larch, Siberian</td>
<td>20</td>
<td>85 mm</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 mm</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm</td>
<td>100</td>
</tr>
</tbody>
</table>

** Nominal length = Traverse path

### Industrial package

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Size</th>
<th>Quantity</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm</td>
<td>630</td>
</tr>
<tr>
<td>Pine</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm</td>
<td>630</td>
</tr>
<tr>
<td>Larch</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 mm</td>
<td>630</td>
</tr>
</tbody>
</table>

** Nominal length = Traverse path

### Knot patches and crossbar pins

#### Knot patches

<table>
<thead>
<tr>
<th>Wood species</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>Wood species</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
<td>15 7050</td>
</tr>
<tr>
<td>Pine</td>
<td>15 7150</td>
</tr>
<tr>
<td>Larch</td>
<td>15 7250</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>Wood species</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>

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

“The new Tanga DX200 is a powerful yet compact machine that we use on a daily basis!”

Jörn Mrohs, installation service, rekord Fenster und Türe
Window replacement with the Tanga DX200
Clean and efficient window replacement
Make your customer happy

How it works

1. Use diamond disc or saw blade
2. Adjust cutting depth
3. Attach suction hose
4. Remove window

Advantages and properties

Easy to handle
Incorporates maximum cutting depth and power in a small, easy to use tool

Corner cuts
Rotating the base plate cover allows for corner and length cuts

180°

1700W

- 900 g

Cutting depth
Unparalleled cutting depth of 70 mm for clean window removal

Long lifetime
Smooth-running, dust-removing column guide for optimal operating safety and a long product lifetime
Tanga DX200
The light-weight power pack for the clean removal of windows

No damage to the reveal with the Tanga DX200:
- Clean separation of the old window frame from the surrounding walls
- No subsequent plastering or painting required
- Minimal dust and dirt
- Faster, less expensive renovation
- Shorter over-all renovation time
- Greater working comfort

Due to the screwless quick clamping system:
- Tools can be changed faster
- No lost screws, and screws are inserted straight
- No screws that cannot be loosened due to dirt or dust
- Driving pins also prevent the clamping flange from jamming

Technical data
Power...................................1'700 W
with electronic overload protection
Voltage.................................230 V
Speed..................................7'700 min⁻¹
Cutting height ......................8 mm (groove width)
Weight..................................4.5 kg
Cutting depth .......................adjustable 0 – 60 mm
(optional 0 – 70 mm with 200mm saw blade)

Tanga DX200 with CE plug (*AT, BE, DE, ES, FR, NL) Part no.
Diamond blade Ø 180mm, corner dust protection, toolkit, in systainer ...................
Tanga DX200 for window removals with rabbet stop
Diamond blade Ø 180mm, saw blade Ø 200mm, Z24, corner dust protection, toolkit, in systainer .......................................................
Tanga DX200 with SEV plug (*CH) Part no.
Saw blade Ø 200mm, Z24, corner dust protection toolkit, in systainer ................... 111570

* For specified markets
Accessories starting page 104 – 105

Driving pins
Now with quick clamping system
Cuts into the reveal
- Turn base plate cover 180° and clip on the corner dust protection
- Cut into the corner
- Straight cut, 60mm deep

Cuts into wooden frames
- Straight cut for 70mm thick frames
- Angled cut for frames thicker than 70mm
- Tip: Hold the machine at a slight angle to prevent scratches

Cuts using the rabbet stop
- Place the machine in the rabbet and cut into the wooden frame
- Place the machine in the rabbet and cut into the masonry
- Narrow rabbet stop for maximum cutting length

What’s new?
- 900g lighter
  Weight reduced from 5.4 kg to 4.5 kg. Ideal for overhead work
- Corner dust protection
  Clip-on dust and work protection for corner cuts
- Height adjustment
  Available as an accessory for adjusting the cutting height
- Rotating the base plate cover
  Now with spring loaded balls to allow for smoother sliding
- Ergonomics
  Large handle and small motor for effective machine guidance
- Only one base plate cover
  The same base plate cover for longitudinal and corner cutting
Edge processing with the Profila
Profila

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

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 workpieces.
– Ideal for cutting protruding PVC edges

Technical data

<table>
<thead>
<tr>
<th></th>
<th>Profila E plus</th>
<th>Profila Pro plus</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>740 W</td>
<td>400 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 V</td>
<td></td>
</tr>
<tr>
<td>Speed</td>
<td>31'000 min⁻¹</td>
<td>22'000 min⁻¹</td>
</tr>
<tr>
<td>Base plate</td>
<td>Ø 100 mm with tool opening 34 mm, reducer 25 mm</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>1.8 kg</td>
<td>1 kg</td>
</tr>
<tr>
<td>Air consumption</td>
<td>180 l/min</td>
<td></td>
</tr>
<tr>
<td>Operating pressure</td>
<td>max. 6.5 bar</td>
<td></td>
</tr>
<tr>
<td>Air consumption</td>
<td>¼” NPT</td>
<td></td>
</tr>
</tbody>
</table>

Profila E plus

Part no. 111962K

Profila Pro plus

Part no. 111964

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

Accessories starting page 106

Flush trim or round edges

Stepless fine adjustment

Dust cover

All standard cutters

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

Profila Pro plus (pneumatic)
Light and ergonomic handling only 1 kg
Cutting expansion gaps with the **Variocut**
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 Part no. 132217)

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

Variocut Part no.
in wooden case ................................................. 111450

Kit contains
Machine with:
saw blade, tool set, manual

Accessories starting page 106
Accessories / Spare Parts
### Accessories / Clamex P

#### P-System drill jig
- **Part no.** 125344
- P-System drill jig incl drill, from 22.5° for all Clamex P connectors (P-10, P-14, P Medius 14/10)
- Angle for drill jig ................................................................. 255250
- Element insert for size P-10 .................................................. 255251
- Element insert for size P-14 .................................................. 255252

#### P-System drill jig long
- **Part no.** 125345
- Drill jig for thick workpieces 100 mm, (P-14, P Medius 14/10)

#### Drill
- **Part no.** 131506
- Spiral drill Ø 6 mm with centering point, for standard drill jig
- Spiral drill Ø 6 mm with centering point, for long drill jig ......... 131508
- Depth adjuster for drill, 6 mm diameter .................................. 255243

#### Clamex P assembly tool
- **Part no.** 251993
- for all angles, fast and flexible, hex 4 × 30 mm, length 290 mm

#### Allen key
- **Part no.** 271945
- 4 mm, 75 × 55 mm ................................................................. 271945A
- 4 mm, 120 × 50 mm .................................................................

#### Cover caps, 100 pieces

<table>
<thead>
<tr>
<th>Angle</th>
<th>Part no.</th>
<th>RAL</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>335280</td>
<td>335281</td>
<td>335285</td>
</tr>
<tr>
<td>45°</td>
<td>335282</td>
<td>335283</td>
<td>335284</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RAL</th>
<th>335282</th>
<th>335283</th>
<th>335284</th>
<th>335285</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>RAL 9010, White</td>
<td>RAL 9002, Grey white</td>
<td>RAL 7035, Light grey</td>
<td></td>
</tr>
<tr>
<td>45°</td>
<td>RAL 1011, Brown beige</td>
<td>RAL 1014, Ivory</td>
<td>RAL 1007, Brown beige</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>RAL</th>
<th>335380</th>
<th>335381</th>
<th>335382</th>
<th>335383</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>RAL 9010, White</td>
<td>RAL 9011, Brown beige</td>
<td>RAL 8017, Dark brown</td>
<td></td>
</tr>
<tr>
<td>45°</td>
<td>RAL 1014, Ivory</td>
<td>RAL 1011, Brown beige</td>
<td>RAL 7022, Umbra grey</td>
<td></td>
</tr>
</tbody>
</table>
**Accessories / P-System / Lamello-System**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part 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 in metal with marking points</strong></td>
<td>125510</td>
</tr>
<tr>
<td>Marking jig incl. drill with centering point and rotating depth collar for the precise drilling of Divario drill holes by hand</td>
<td></td>
</tr>
<tr>
<td><strong>Divario P-18 Marking jig in plastic, to mark with a pencil</strong></td>
<td>125511</td>
</tr>
<tr>
<td>Marking jig to mark the Divario holes with a pencil</td>
<td></td>
</tr>
<tr>
<td><strong>Tenso P-10 / P-14 Preload tool</strong></td>
<td>145400</td>
</tr>
<tr>
<td>Tool to pre-load the Tenso P</td>
<td></td>
</tr>
<tr>
<td><strong>P-System groove cutter, Ø 100.4 × 7 × 22 mm</strong></td>
<td>132140</td>
</tr>
<tr>
<td>Z3, diamond dipped for Zeta (P-System)</td>
<td></td>
</tr>
<tr>
<td><strong>P-System groove cutter, Ø 100.9 × 7 × 22 mm</strong></td>
<td>132141</td>
</tr>
<tr>
<td>Z3, carbide tipped for Zeta (P-System)</td>
<td></td>
</tr>
<tr>
<td><strong>Stop square for Zeta P2, Top 21, Classic X</strong></td>
<td>251044</td>
</tr>
<tr>
<td>For stabilising the biscuit joiner in the vertical position, ideal for obtuse miter joints</td>
<td></td>
</tr>
<tr>
<td><strong>Spacer for biscuit joiner</strong></td>
<td>253026</td>
</tr>
<tr>
<td>5 mm, aluminium for 18 mm panels for Top 21 / Zeta / Classic</td>
<td></td>
</tr>
<tr>
<td>2 mm, plastic for 16 mm panels for Top 21 / Zeta / Classic</td>
<td></td>
</tr>
<tr>
<td>4 mm, plastic for miters for Top 21 / Zeta / Classic</td>
<td></td>
</tr>
<tr>
<td><strong>Systainer T-Loc Size II</strong></td>
<td>331565</td>
</tr>
<tr>
<td>Systainer II T-loc, empty</td>
<td></td>
</tr>
<tr>
<td>Insert with two partitions for systainer II</td>
<td></td>
</tr>
<tr>
<td>Insert systainer T-loc II for Zeta P2, Top21, Classic X</td>
<td></td>
</tr>
<tr>
<td><strong>Insert systainer T-loc II for Zeta P2, Top21, Classic X</strong></td>
<td>360014</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Top Setup of the machine for cutting expansion gap**

### Classic C2, C3, 3S Pa, Zeta

<table>
<thead>
<tr>
<th>Width (mm)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8±0</td>
<td>132000</td>
</tr>
<tr>
<td>9±0</td>
<td>132106</td>
</tr>
<tr>
<td>10±0</td>
<td>352408</td>
</tr>
<tr>
<td>11±0</td>
<td>271959</td>
</tr>
<tr>
<td>12±0</td>
<td>352130</td>
</tr>
<tr>
<td>13±0</td>
<td>352133</td>
</tr>
</tbody>
</table>

### Accessories / Lamello-System

- **Carbide tipped groove cutter, Ø 100 × 4 × 22 mm**
  - Z2 + V4 scoring teeth, 4 screw holes, hub .................................................. 132000
  - Z6 alternating teeth, without hub, with spacer ........................................... 132106
  - Countersunk bolts, M4 × 8, Torx ...................................................................... 352408

- **Carbide tipped groove cutter, Ø 78 × 3 × 22 mm**
  - Z4, 4 Screw holes, with hub for biscuit H9...................................................... 132009

- **Carbide tipped groove cutter with reversible blades, Ø 100 × 4 × 22 mm**
  - Z2 + V2, 4 screw holes with hub ........................................................................ 132001
  - Z4 + V4, 4 screw holes without hub, with spacer ............................................ 132130
  - Set of 4 pieces .................................................................................................. 132111
  - Countersunk screws .......................................................................................... 352408
  - Allen key, 4 mm long ......................................................................................... 271959
  - Set of 10 pieces main teeth ................................................................................ 132134
  - Set of 10 pieces scoring teeth .......................................................................... 132135
  - Replacement-Set, 4 scoring teeth + 4 main teeth .............................................. 132133
  - Screws ............................................................................................................... 352130
  - Torx key ............................................................................................................ 352133

- **Carbide tipped groove cutter with reversible blades, Ø 100 × 8 × 22 mm**
  - Z4 + V4, 4 screw holes ....................................................................................... 132108
  - Set of 10 pieces scoring teeth ............................................................................ 132137
  - Set of 10 pieces main teeth ................................................................................ 132136
  - Replacement-Set, 4 scoring teeth + 4 main teeth .............................................. 132114

- **Slide shoe, to protect the wall and the machine**
  - From year of manufacture 1999 ....................................................................... 251057
  - for Experta, Classic C2, C3 ............................................................................ 251057
  - Top 20, S, S2, S3, S4, Top 21, Zeta ................................................................. 251057

- **Carbide tipped saw blades for expansion gaps, Ø 100 × 2.4 × 22 mm**
  - Z20, 4 screw holes, 2 spacers .......................................................................... 132350

- **Accessories for saw blades**
  - Spacer, 40 × 20 × 1 mm with screw holes ....................................................... 322510
  - Flange M8 ......................................................................................................... 252502

- **Clamex S drill jig 30° – 150°**
  - Drill jig (60 mm) incl. drill for Clamex S ......................................................... 125240

- **Clamex S installation set**
  - Drill jig for 30°–150° incl. drill and carbide tipped groove cutter with reversible blades 8 mm (132108) .................. 125250

---

**Setup of the machine for cutting expansion gap**

- **Classic C2, C3, 3S Pa, Zeta**
- **Top 20, S2, S3, S4, Top 21**

<table>
<thead>
<tr>
<th>Thickness (mm)</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 mm ±2</td>
<td>132000</td>
</tr>
<tr>
<td>9 mm -1</td>
<td>132106</td>
</tr>
<tr>
<td>10 mm 0</td>
<td>352408</td>
</tr>
<tr>
<td>11 mm +1</td>
<td>271959</td>
</tr>
<tr>
<td>12 mm +2</td>
<td>352130</td>
</tr>
<tr>
<td>13 mm +3</td>
<td>352133</td>
</tr>
</tbody>
</table>
## Accessories / Drilling Systems

### Cabineo installation tool

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabineo tool with handle</td>
<td>256300</td>
</tr>
<tr>
<td>Cabineo hex bit 1/4&quot; GL 120mm</td>
<td>276312</td>
</tr>
<tr>
<td>Cabineo hex bit 1/4&quot; GL 80mm</td>
<td>276306</td>
</tr>
<tr>
<td>Cabineo hex bit 1/4&quot; GL 80mm, 100 pieces</td>
<td>276307</td>
</tr>
</tbody>
</table>

### Cabineo drill / cutter

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabineo drill Ø 15 mm with short centering point 0.8 mm</td>
<td>136312</td>
</tr>
<tr>
<td>Cabineo cutter Ø 10 mm</td>
<td>136310</td>
</tr>
<tr>
<td>Cabineo cutter Ø 12 mm</td>
<td>136311</td>
</tr>
<tr>
<td>Cabineo drills for aggregate, set with 3 pcs Ø15 mm (RL/LL/RL) carbide tipped</td>
<td>136313</td>
</tr>
</tbody>
</table>

### Cabineo cover caps

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no. 100 pcs</th>
<th>Part no. 2000 pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plastic signal white RAL 9003</td>
<td>186350S</td>
<td>186351S</td>
</tr>
<tr>
<td>Plastic pure white RAL 9010</td>
<td>186350W</td>
<td>186351W</td>
</tr>
<tr>
<td>Plastic papyrus white RAL 9018</td>
<td>186350P</td>
<td>186351P</td>
</tr>
<tr>
<td>Plastic light ivory RAL 1015</td>
<td>186350H</td>
<td>186351H</td>
</tr>
<tr>
<td>Plastic brown beige RAL 1011</td>
<td>186350B</td>
<td>186351B</td>
</tr>
<tr>
<td>Plastic fawn brown RAL 8007</td>
<td>186350R</td>
<td>186351R</td>
</tr>
<tr>
<td>Plastic window grey RAL 7040</td>
<td>186350F</td>
<td>186351F</td>
</tr>
<tr>
<td>Plastic mouse grey RAL 7005</td>
<td>186350A</td>
<td>186351A</td>
</tr>
<tr>
<td>Plastic jet black RAL 9005</td>
<td>186350T</td>
<td>186351T</td>
</tr>
<tr>
<td>Metal look nickel</td>
<td>186350N</td>
<td>186351N</td>
</tr>
<tr>
<td>Metal look silver</td>
<td>186350C</td>
<td>186351C</td>
</tr>
<tr>
<td>Metal look dark steel</td>
<td>186350D</td>
<td>186351D</td>
</tr>
</tbody>
</table>
**Accessories / Gluing System**

**LK 3, LK 5, LK 10**

**LK Service cart**

The mobile station for LK 10, LK 5 and LK 3:
- Adjustable suspension rod
- Incl. service container cover and grid basket to submerge nozzles in water when not in use, volume 3 l (533255)
- Dimensions 410 x 410 x 850 mm

**Part no.**
533205

**LK Rolling base with handle**

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

**Part no.**
533204

**LK Rolling base**

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

**Part no.**
533201

---

**Dosicol / Minicol / Servicol**

**Connector**

3/4" for water tap
- US for water tap
- 533250
- 533251

**Cleaning brush**

Ø 40 x 100 mm length 340 mm
- Round Ø 6 mm length 340 mm
- 533252
- 533253

**Service container**

Volume 3 litres with mesh basket for 533205
- Inside dimensions Ø 60 x 90 mm
- 533255
- 533260

**Water reservoir complete**

Inside dimensions 134 x 60 x 60 mm
- 533261

**Distributor**

For 2 – 3 additional hoses
- 533238

**Connector**

With external thread M8
- With 2 screws M4 x 10
- 533230
- 533240

**Hose mounted**

Ø 10 x 4000 mm
- Ø 13 x 4000 mm
- 533215
- 533216

**Hose**

Ø 10 mm per meter
- Ø 13 mm per meter
- 533210
- 533213

**Hose connector set**

Ø 10 mm
- Ø 13 mm
- 533222
- 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
- 533205

**Bracket with 2 screws for roller nozzle**

- 533224

**Pump hose**

- 552822

**Part no.**
552029

---

**Dosicol**

**Metering pump complete**

For Dosicol
- 287012

**Cap for glue bottle**

For Dosicol
- 287013

**Base**

For Dosicol
- 337001

**Water container**

For Dosicol
- 287010

**Adapter for nozzel**

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
Carbide tipped cutters for Lamello wood repair machines

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>132217</td>
<td>100 × 8 × 22 mm, Z4, 4 screw holes ................................................. for Minispot patches</td>
<td>Size 2</td>
</tr>
<tr>
<td></td>
<td>(fits all Lamello biscuit joiners)</td>
<td></td>
</tr>
<tr>
<td>132209</td>
<td>100 × 15 × 22 mm, Z4 ........................................................................ for Minispot patches</td>
<td>Size 22</td>
</tr>
<tr>
<td>132208</td>
<td>100 × 15 × 22 mm, Z4 ........................................................................ for Minispot patches</td>
<td>Size 4</td>
</tr>
<tr>
<td>132222</td>
<td>100 × 20 × 22 mm, Z4 ........................................................................ for Minispot patches</td>
<td>Size 20</td>
</tr>
<tr>
<td></td>
<td>(our recommendation)</td>
<td></td>
</tr>
<tr>
<td>132220</td>
<td>100 × 15 × 22 mm, Z4 ........................................................................ for Minispot patches</td>
<td>Size 2</td>
</tr>
<tr>
<td></td>
<td>100 × 20 × 22 mm, Z2 with profile blades ............................................... Size 20</td>
<td></td>
</tr>
<tr>
<td>132221</td>
<td>Profile blades for Part no. 132220 ...................................................... Size 20</td>
<td></td>
</tr>
</tbody>
</table>

Carbide tipped saw blade Z20

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>For</th>
</tr>
</thead>
<tbody>
<tr>
<td>132301</td>
<td>Ø 100 × 2.4 × 22 mm ........................................................................... for Patchmaker 2, Patchmaker 20, Variocut</td>
<td></td>
</tr>
<tr>
<td>132350</td>
<td>Ø 100 × 2.4 × 22 mm with 2 spacers ..................................................... for Patchmaker 2, Patchmaker 20, Variocut</td>
<td></td>
</tr>
</tbody>
</table>

Carbide tipped profile cutter Z2

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>For</th>
</tr>
</thead>
<tbody>
<tr>
<td>131600</td>
<td>Shaft-Ø 8 mm</td>
<td>for Patchmaker 2</td>
</tr>
</tbody>
</table>

Carbide tipped profile cutter Z2+2

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
<th>For</th>
</tr>
</thead>
<tbody>
<tr>
<td>131620</td>
<td>Ø 80 × 29 × 20 mm .............................................................................. for 1 × Size 20</td>
<td></td>
</tr>
<tr>
<td>131621</td>
<td>for 2 × Size 2 ......................................................................................</td>
<td></td>
</tr>
</tbody>
</table>
## Accessories / Window replacement

### Diamond blades for Tanga DX200

<table>
<thead>
<tr>
<th>Diameter (mm) x Thickness (mm) x Arbor (mm)</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 180 x 2.4 x 29 mm (cutting depth 60 mm)</td>
<td>132530</td>
</tr>
<tr>
<td>Cuts concrete, brick, plaster or tiles.</td>
<td></td>
</tr>
<tr>
<td>With very high cutting performance</td>
<td></td>
</tr>
<tr>
<td>Ø 200 x 2.4 x 29 mm (cutting depth 70 mm)</td>
<td>132531</td>
</tr>
<tr>
<td>Cuts concrete, brick, plaster or tiles.</td>
<td></td>
</tr>
<tr>
<td>Ø 200 x 1.8 x 29 mm (cutting depth 70 mm)</td>
<td>132532</td>
</tr>
<tr>
<td>Cuts plastic frames with steel frame reinforcement</td>
<td></td>
</tr>
</tbody>
</table>

### Saw blades for Tanga DX200

<table>
<thead>
<tr>
<th>Diameter (mm) x Thickness (mm) x Arbor (mm)</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 200 x 2.4 x 29 mm (cutting depth 70 mm)</td>
<td>132330</td>
</tr>
<tr>
<td>Z12, cuts into wooden frames</td>
<td></td>
</tr>
<tr>
<td>Ø 200 x 2.2 x 29 mm (cutting depth 70 mm)</td>
<td>132331</td>
</tr>
<tr>
<td>Z24, 4 NL, cuts into wooden frames. Very high cutting performance and increased lifetime with 24 teeth</td>
<td></td>
</tr>
<tr>
<td>Ø 200 x 2.2 x 29 mm (cutting depth 70 mm)</td>
<td>132332</td>
</tr>
<tr>
<td>Z32, cuts into aluminium frames</td>
<td></td>
</tr>
<tr>
<td>Ø 200 x 2.2 x 29 mm (cutting depth 70 mm)</td>
<td>132333</td>
</tr>
<tr>
<td>Z30, cuts into wooden frames.</td>
<td></td>
</tr>
<tr>
<td>Very high resistance to screws with 30 teeth</td>
<td></td>
</tr>
</tbody>
</table>

### Accessories for Tanga DX200

<table>
<thead>
<tr>
<th>Description</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rabbet stop 0 to 50mm</td>
<td>121564</td>
</tr>
<tr>
<td>For placement in the rabbet instead of on the reveal or the frame surface.</td>
<td></td>
</tr>
<tr>
<td>Ideal for situations where the window is flush with the wall.</td>
<td></td>
</tr>
<tr>
<td>Height adjustment 0 to 50mm</td>
<td>121565</td>
</tr>
<tr>
<td>Allows the cutting height to be adjusted depending on the application.</td>
<td></td>
</tr>
</tbody>
</table>
Accessories / Window replacement

Carbide tipped saw blades for Tanga Delta

<table>
<thead>
<tr>
<th>Size</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 200 × 2.4 × 22 mm (cutting depth 68 mm)</td>
<td>132322</td>
</tr>
<tr>
<td>Z12, 4 screw holes</td>
<td></td>
</tr>
<tr>
<td>Ø 200 × 2.4 × 22 mm (cutting depth 68 mm)</td>
<td>132320</td>
</tr>
<tr>
<td>Z24, 4 screw holes</td>
<td></td>
</tr>
<tr>
<td>Ø 200 × 2.2 × 22 mm (cutting depth 68 mm)</td>
<td>132323</td>
</tr>
<tr>
<td>Z24, 4 NL, higher resistance against screws, high cutting performance</td>
<td></td>
</tr>
<tr>
<td>Ø 200 × 2.4 × 22 mm (cutting depth 68 mm)</td>
<td>132321</td>
</tr>
<tr>
<td>Z24, 4 NL, (only suited for cutting into the wood without moving the machine)</td>
<td></td>
</tr>
<tr>
<td>Ø 200 × 2.2 × 22 mm (cutting depth 68 mm)</td>
<td>132324</td>
</tr>
<tr>
<td>Z32, for aluminium windows</td>
<td></td>
</tr>
<tr>
<td>Screw M4 × 8 for saw blades</td>
<td>352408F</td>
</tr>
</tbody>
</table>

Carbide tipped saw blades for Tanga Swiss, 1811, Dia

<table>
<thead>
<tr>
<th>Size</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 180 × 2.4 × 22 mm (cutting depth 58 mm)</td>
<td>132317</td>
</tr>
<tr>
<td>Z12, 6 screw holes</td>
<td></td>
</tr>
<tr>
<td>Ø 180 × 2.4 × 22 mm (cutting depth 58 mm)</td>
<td>132318</td>
</tr>
<tr>
<td>Z24, 6 screw holes</td>
<td></td>
</tr>
<tr>
<td>Ø 180 × 2.4 × 22 mm (cutting depth 58 mm)</td>
<td>132319</td>
</tr>
<tr>
<td>Z24 special, 6 screw holes, only for cutting into the wood without moving the machine</td>
<td></td>
</tr>
</tbody>
</table>

Diamond blades for Tanga Delta

<table>
<thead>
<tr>
<th>Size</th>
<th>Part no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 200 × 2.6 × 22 mm (cutting depth 68 mm)</td>
<td>132517</td>
</tr>
<tr>
<td>4 screw holes, for a clean cut into tiles and plaster</td>
<td></td>
</tr>
<tr>
<td>Ø 200 × 2.6 × 22 mm (cutting depth 68 mm)</td>
<td>132522</td>
</tr>
<tr>
<td>4 screw holes, segmented for soft materials</td>
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<tr>
<td>Ø 200 × 1.8 × 22 mm (cutting depth 68 mm)</td>
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<tr>
<td>4 NL, for PVC windows with steel core</td>
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<tr>
<td>Ø 180 × 2.6 × 22 mm (cutting depth 58 mm)</td>
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<tr>
<td>4 NL</td>
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Attention:
Always use original Lamello tools only for perfect cutting quality and to prevent damage to the machine

Accessories for saw blades for 3S Pa

<table>
<thead>
<tr>
<th>Part no.</th>
<th></th>
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<tbody>
<tr>
<td>121556</td>
<td>Rabbet stop for Tanga</td>
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<tr>
<td>321548</td>
<td>Base plate for corners</td>
<td>for Tanga Delta H, S2</td>
</tr>
<tr>
<td>251554</td>
<td>2 rolls for base plate</td>
<td>for Tanga Delta H, S2</td>
</tr>
<tr>
<td>352509</td>
<td>M5 × 8 screws for sliding guide</td>
<td>for Tanga Delta H, S2</td>
</tr>
</tbody>
</table>

Carbide tipped saw blades for 3S Pa

<table>
<thead>
<tr>
<th>Part no.</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>132312</td>
<td>Ø 120 × 2.4 × 22 mm, Z20, with 2 spacers</td>
<td></td>
</tr>
<tr>
<td>132382</td>
<td>Ø 120 × 2.4 × 22 mm, Z20, with flange M8</td>
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Accessories for saw blades

<table>
<thead>
<tr>
<th>Part no.</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>252502</td>
<td>Flange M8, with screws (M4 × 6, Part no. 352406)</td>
</tr>
<tr>
<td>322501</td>
<td>Spacer... 40 × 22 × 1 mm</td>
</tr>
<tr>
<td>322502</td>
<td>40 × 22 × 0.5 mm</td>
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</tbody>
</table>
### Accessories / Laminate trimmer

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Part no.</th>
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<tbody>
<tr>
<td><strong>Carbide tipped edge cutters</strong></td>
<td></td>
</tr>
<tr>
<td>Radius 2 mm, shaft-Ø 8 mm. for Profila E, P</td>
<td>131987</td>
</tr>
<tr>
<td><strong>Base plates</strong></td>
<td></td>
</tr>
<tr>
<td>with gap, Ø 100 mm. for Profila E, Pro</td>
<td>121982, 121987</td>
</tr>
<tr>
<td>without gap, Ø 100 mm. for Profila P2, Pro Plus</td>
<td>121983, 121984</td>
</tr>
<tr>
<td><strong>Collet chucks</strong></td>
<td></td>
</tr>
<tr>
<td>6 mm. for Profila E (L 48, L 50, 230 V)</td>
<td>251960</td>
</tr>
<tr>
<td>8 mm. for Profila E (L 48, L 50, 230 V)</td>
<td>251962</td>
</tr>
<tr>
<td>1/4&quot; for Profila E (L 48, L 50, 230 V)</td>
<td>251961</td>
</tr>
<tr>
<td>6 mm. for Profila E (L 51, 120 V)</td>
<td>251963</td>
</tr>
<tr>
<td>8 mm. for Profila E (L 51, 120 V)</td>
<td>251978</td>
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<tr>
<td>1/4&quot; for Profila E (L 51, 120 V)</td>
<td>251964</td>
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<tr>
<td>6 mm. for Profila P2, Pro, Pro plus</td>
<td>251966</td>
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<tr>
<td>8 mm. for Profila P2, Pro, Pro plus</td>
<td>251988</td>
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<tr>
<td>1/4&quot; for Profila P2, Pro, Pro plus</td>
<td>251967</td>
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<tr>
<td><strong>Dust cover</strong></td>
<td></td>
</tr>
<tr>
<td>Individually adjustable position, with stopper for the bearing</td>
<td>121900</td>
</tr>
<tr>
<td><strong>Carbide tipped reversible blades (3 pieces)</strong></td>
<td></td>
</tr>
<tr>
<td>45 × 12 × 1.5 mm, angle 55° for Cantex Ergo, Plano 45</td>
<td>131822</td>
</tr>
<tr>
<td>(from 2006)</td>
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<tr>
<td>45 × 12 × 1.5 mm, angle 45° for Cantex, Plano 45</td>
<td>131823</td>
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<tr>
<td>(until 2006)</td>
<td></td>
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<tr>
<td><strong>Carbide tipped profile cutter</strong></td>
<td></td>
</tr>
<tr>
<td>Ø 30 mm. for Lamina, 90° and 35°</td>
<td>131980</td>
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<tr>
<td><strong>Parallel guide stop for Cantex Ergo / S2</strong></td>
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<tr>
<td>Parallel guide stop for Cantex Ergo / S2</td>
<td>121290</td>
</tr>
<tr>
<td>For efficient flush-milling of protruding wood edges on materials with finished surfaces (melamine, veneer)</td>
<td></td>
</tr>
<tr>
<td>Prevents cutting into the finished surface!</td>
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</table>

### Accessories / Grooving machine

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Part no.</th>
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</thead>
<tbody>
<tr>
<td><strong>Saw blade Ø 100 x 2.4 x 22 mm</strong></td>
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</tr>
<tr>
<td>Z20, with 2 spacers for Variocut</td>
<td>132350</td>
</tr>
<tr>
<td>Z20, without spacer rings for Variocut, Patchmaker 2</td>
<td>132301</td>
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## Dust collection accessories

### Suction set complete

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

### Parts

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Description</th>
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<tbody>
<tr>
<td>331808</td>
<td>Suction hose black int. Ø 23 mm, per Meter</td>
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<tr>
<td>331802</td>
<td>Connecting piece conical for suction hose, int. Ø 23 mm</td>
</tr>
</tbody>
</table>
| 331805  | Suction hose adapter for suction set 23 and 30  
54 and 58 mm |
| 331006  | Suction stub 23 mm for biscuit joiner, Perfora  
Trimming unit Patchmaker |
| 331005  | Deflector stub for biscuit joiner |
| 331007  | Extractor stub 36 mm for biscuit joiner  
(Festool compatible) |
| 337530  | Dust bag for biscuit joiner |
| 257530  | Dust bag and extractor stub Ø 36 mm for biscuit joiner |
| 283030  | Dust bags for Part no. 283035  
10 pieces |
| 281804  | Suction stub LMA-74 for 3S, G2A, G2, Junior 10, Dynamic  
Directa, Top  
fits suction hose, int. Ø 23 mm |
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<tr>
<td><strong>Carbide tipped groove cutter</strong></td>
<td>Ø 100 × 4 × 22 mm</td>
<td>for Zeta, Top, Classic</td>
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<td>for Classic</td>
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<td><strong>Biscuit for solid surface</strong></td>
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<td>56 × 23 × 4 mm</td>
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<td><strong>Detachable slide-in connector</strong></td>
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