Pioneering wood joining
simple ingenuity
Intelligent and innovative design with a significant impact!

We strive for new solutions in wood joining and processing technology that give our customers new freedom in design and production. Years of practical experience and close cooperation on development with our customers, combined with quick implementation mean that we are able to provide outstanding services while continually supporting and inspiring our customers in trade and industry.
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Lamello Distribution Network
We are there for you – worldwide!
As a leading manufacturer of precision joining systems, Lamello sets new standards with the P-System when it comes to joining fittings and work pieces. The system’s special feature is its form-locking anchorage that does not require the use of adhesive or screws. The great benefit for the customer lies in just how simple it is to install the fittings – taking just a few seconds without the need for tools. The versatile range of P-System fittings is continually being expanded with new, highly practical, innovative components which allow for an increasingly universal application of the system. Our customers in trade and industry benefit continually from the system’s high functional efficiency and process cost efficiency.
«Successfully fostering practical innovation and creativity with and through our employees and business partners in order to create clearly identifiable value and advantages for our customers in trade and industry – benefits that facilitate sustainable growth for all involved.»
«I am a Lamello fan from the very beginning, and it is great to have an innovative and dynamic partner by my side»

Gerd Stuber, Managing Director of Stuber Team AG in Rotkreuz, Switzerland
The name Lamello combines Tradition and Innovation.

We particularly value:

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

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

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

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

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

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

«The time saved with the P-System convinced us from the start.»

from left to right: Hannes Kofler, production planning and organisation; Daniel Kofler, purchasing and sales at Kofler in St. Felix, Italy
Joining with the P-System
Form-locking, tool-free installation of Lamello P-System fittings

**How it works**

Fittings installation twice as fast

Tool-less fittings installation

Advantages and properties

- Fittings installation twice as fast
  - Save cost due to the fast installation of fittings by simply inserting the elements
- Tool-less fittings installation
  - Very simple fitting installation by hand in the workshop or on site

Low packing volume

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

Form-locking anchorage without tools

---

**Clamex P**

Detachable connecting fitting

Detachable connecting fitting

Open the connection time and time again with the rotating lever

---

**Tenso P**

with preload clip

Self-clamping fitting as glueing aid, for all angles

Glueing

Fixed joints of two workpieces

---

**Divario P**

Self-clamping, invisible fitting for slide insertion

Sliding insertion

Insertion between two fixed sides or shelves via a guiding groove
P-System

Strong
Form-locking anchorage across large surface areas

Lateral tolerance
Perfect, flush alignment of both work pieces

Shallow depth
Minimal cutting depth with maximum tensile strength

No twisting
The positioning pins prevent twisting without additional dowels

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

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

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

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

Invisible
No visible fitting

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

Versatile
Simple gluing of mitre joints

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

Invisible
Guiding groove covers the fittings

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

Fast installation
Quick installation of the fittings without glue after transport.

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

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

- **Versatility for all angles**, same system for all joining situations
- **Freedom of choice during assembly**, detachable or glued construction

---

**Clamex P-14**
For panels from 16mm

**Technical data**
- **Size**: $66 \times 27 \times 9.7$ mm
- **Cutter**: $\Ø 100.4 \times 7 \times 22$
- **Material of connector**: fibreglass reinforced plastic
- **Material of lever**: zinc die cast
- **Installation tolerance**: longitudinal $\pm 1$ mm

**Tensile strength (N)**
- MDF $\sim 900$
- Particle board $\sim 800$
- Beech $\sim 1'000$

**Clamex P-14**

<table>
<thead>
<tr>
<th>Carton with</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>80 pairs</td>
<td>145334</td>
</tr>
<tr>
<td>300 pairs</td>
<td>145346</td>
</tr>
<tr>
<td>1000 pairs</td>
<td>145356</td>
</tr>
<tr>
<td>Drill jig P-System</td>
<td>125344</td>
</tr>
</tbody>
</table>

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

---

**Detachable connecting fitting**

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- Particle board $\sim 800$
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**Clamex P-14**

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Advantages and properties
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- **Stackable with pre-installed fittings**, advantages in packaging, transport and logistics
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- **Material of lever**: zinc die cast
- **Installation tolerance**: longitudinal $\pm 1$ mm

**Tensile strength (N)**
- MDF $\sim 900$
- Particle board $\sim 800$
- Beech $\sim 1'000$

**Clamex P-14**

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<td>145356</td>
</tr>
<tr>
<td>Drill jig P-System</td>
<td>125344</td>
</tr>
</tbody>
</table>
Clamex P-10

For panels from 13mm

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

Tensile strength (N)
- MDF: ~ 600
- Particle board: ~ 600
- Beech: ~ 900

Clamex P-10 Art.No.
- Carton with 80 pairs: 145372
- Carton with 300 pairs: 145373
- Carton with 1000 pairs: 145374

Drill jig P-System: 125344

Clamex P-Medius 14/10

For centre panels from 16mm

Technical data
- Size: 66 × 13.5 × 9.7 mm
- Cutter: 52 × 7.5 × 9.7 mm
- Material of connector: fibreglass reinforced plastic
- Material of lever: zinc die cast
- Installation tolerance: longitudinal ± 1 mm

Load (N) (19 mm) Tensile strength (N)
- MDF: ~ 700
- Particle board: ~ 550
- Beech: ~ 2400

Clamex P Medius 14/10 Art.No.
- Carton with 80 pairs: 145370
- Carton with 300 pairs: 145371
- Carton with 1000 pairs: 145357

Drill jig P-System: 125344
Bisco P
Aligning element suitable for Clamex P-14 and Tenso P-14

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

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

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

Surface structure allows use as a connecting element when gluing work pieces with PVA glue

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

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

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

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

Furniture manufacturing / Interior fitting

Your advantages with Clamex P

Aesthetic solution
– Differentiation to furniture standards

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

Short assembly time on site
– Minimal installation cost

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

Production process

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

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

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

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

Detachable
Aesthetic
High clamping force
Stackable
Versatile
Fast installation
Strong
Lateral tolerance
Shallow cutting
No twisting
Clamex P – applications

**Furniture manufacturing / Interior fitting**

Your advantages with Clamex P

**Aesthetic solution**
- Differentiation to furniture standards

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

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

<table>
<thead>
<tr>
<th>Detachable</th>
<th>Fast installation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aesthetic</td>
<td>Strong and form-locking</td>
</tr>
<tr>
<td>High clamping force</td>
<td>Lateral tolerance in P-System groove</td>
</tr>
<tr>
<td>Stackable</td>
<td>Shallow cutting depth</td>
</tr>
<tr>
<td>Versatile</td>
<td>No twisting</td>
</tr>
</tbody>
</table>

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

**Shop fitting / kitchen manufacturing**

Your advantages with Clamex P

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

**Versatility for all angles**
- Same system for all joining situations

**Freedom of choice during assembly**
- Detachable or glued construction

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

<table>
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</tr>
<tr>
<td>Versatile</td>
<td>No twisting</td>
</tr>
</tbody>
</table>

Applications
wall elements | furniture | show cases | changing rooms | stools | etc.
Tenso P

Tenso P-14, Advantages and properties
- High clamping force ➔ usage as gluing aid (no screw clamp or press needed)
- Completely invisible ➔ perfectly aesthetic
- Installation without tools ➔ reliable process (simple + fast, no screws or glue necessary)

Tenso P-14 with preload clip, Advantages and properties
- Versatile ➔ simple gluing of mitre joints
- Lower assembly force ➔ only a short power impulse necessary to join
- Effortless joining regardless of the number of connectors

Tenso P-14
Self-clamping fitting as gluing aid

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

Clamping force (N)
Per fitting: ~ 150

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

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

Tenso P-14 + preload clip
Self-clamping fitting as glueing aid, for all angles

Tenso P-14 Starter-Set
Carton with 80 pairs (with preload clip) .............................................. 1454155
Carton with 80 pairs (with preload clip) .............................................. 1454255

Preload clip
Carton with 300 pieces ........................................................................... 145426
Carton with 1000 pieces ........................................................................ 145436

Accessories can be found from page 92 onwards

Insert preload clip into installation tool
Preload the Tenso P-14
Apply glue
Assemble Work pieces

max. 30 min
**Tenso P-14 – applications**

**Furniture manufacturing / Interior fitting**

Your advantages with Tenso P-14

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

**Clamps the joint from the inside**
- Clamping force perfectly perpendicular to the glue surface
- Glueing of shaped workpieces
- Simultaneously aligns and clamps

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

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

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

**Production process**

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

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

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

4. **Delivery: product already assembled**
   - Short assembly time on site with pre-assembles elements / furniture parts
Shop fitting
Your advantages with Tenso P-14

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

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

☑️ Glueing
☑️ 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 | separating walls | cladding | face frames etc.

Production process

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

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

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

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

interzum® Award
2013
Divario P
Self-clamping, invisible fitting for slide insertion

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

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

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

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

Load per fitting (N)

<table>
<thead>
<tr>
<th>Material</th>
<th>19 mm</th>
<th>22 mm</th>
<th>25 mm</th>
<th>30 mm</th>
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</thead>
<tbody>
<tr>
<td>Particle board</td>
<td>500</td>
<td>600</td>
<td>700</td>
<td>1000</td>
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<tr>
<td>MDF</td>
<td>600</td>
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<td>Spruce</td>
<td>800</td>
<td>900</td>
<td>1300</td>
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</table>

Tensile strength (N)

<table>
<thead>
<tr>
<th>Material</th>
<th>600</th>
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<tbody>
<tr>
<td>all materials</td>
<td></td>
</tr>
</tbody>
</table>

Divario P-18 Art.No.
Starter-Set 80 pairs incl. Installation tool ...................... 145550S
Carton with 80 pairs ............................................. 145550
Carton with 300 pairs ............................................ 145560
Carton with 1000 pairs ........................................... 145570

Divario P-18 Installation tool ...................................... 125500
to insert the fittings and drive the positioning pins into the wood
Divario P-18 marking jig incl. drill ............................... 125510
for the marking of the drilling positions
Furniture manufacturing / Interior fitting

Your advantages with Divario P-18

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

Clamped joints
– Joint with high tensile strength
– Reinforcing tall cupboards with fixed shelves
– Perfect look with closed joints
– No clamps or presses necessary

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

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

✅ Sliding insertion
✅ Invisible
✅ Clamped joint
✅ Fast installation
✅ Assemble by sliding

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

hülsta, D-48702 Stadtlohn
Zeta P2
The machine for the evolving P-System, saving you time daily! Differentiate your products from the standard!

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

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

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

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

Close with an allen key – Finished!

Lamello Zeta P2 is the right investment into your future

Time saving with every groove!
Improve your profit by lowering your labour cost!

Zeta P2 with centre marking

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

Advantages in the production process

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

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

Watch the video:
www.lamello.com
Advantages and properties

– Zeta P2, the power tool for fast, form-locking anchorage of all P-System connecting fittings for wood joints

– The automatic vertical movement creates a profile groove enabling manual insertion of the connecting fittings

– Time saving when installing fittings due to the innovative profile groove concept which saves labour cost as well as the cost for glue or screws

Profile groove function

The vertical mechanical drive is the core of the machine

– Fast ~ 1 second

– User-friendly with automatic operation of the cutting process

– Switch off the VMD to use the machine as a standard biscuit joiner enabling 19 more applications (see page 48)

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>1050 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 V</td>
</tr>
<tr>
<td>Speed</td>
<td>9'000 min⁻¹</td>
</tr>
<tr>
<td>P-System Cutter</td>
<td>Carbide tipped / Diamond tipped</td>
</tr>
<tr>
<td>Ø</td>
<td>100 x 7 x 22 mm</td>
</tr>
<tr>
<td>Teeth</td>
<td>Z3</td>
</tr>
<tr>
<td>Cutting depth max.</td>
<td>20 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3.7 kg</td>
</tr>
</tbody>
</table>

Rotatable depth adjuster for P-System depths

– Depth 18 for Divario P-18

– Depth 14 for Tenso P-14, Clamex P-14 and Clamex P Medius (larger side), Bisco P-14

– Depth 10 for Clamex P-10 and Clamex P Medius (smaller side), Bisco P-10

– Depth «off» for groove millings without profile groove

= for standard biscuit joiner

Zeta P2-Set Art.No.

with carbide tipped profile groove cutter in Systainer 1014025

with diamond tipped profile groove cutter in Systainer 101402DS

Kit contains

– Zeta P2 with 1050 W motor

– 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 can be found from page 92 onwards

3. Delivery: in parts

– Smaller transport volume without damaging the work pieces

– Easy transport of the parts into the building (stairs, elevator)

4. Assembly on site

– Fast and efficient assembly with an allen key

– No waiting time after clamping the glue joint
P-System CNC

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

from left to right: Nicolas Rassinfosse and Pierre Vereecken, directors of Modul 3 in Gembloux, Belgium
Joining with the P-System CNC technology
CNC partners

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

Partners for **CNC-technology**

Partners for **aggregates**

Partners for **software**

Partners for **tooling**
CNC machines

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

1. **CNC machine**
   - Machine with 3/4/5 axes + angle aggregate

2. **CNC software**
   - Purchase software/macro/component from the manufacturer
   - Program the macro yourself

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

   The angle aggregate also enables the P-System groove to be cut in the centre of the surface.
   An overview of other aggregates is available on our website: www.lamello.com

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

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

### P-System CNC drill bit

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>131556</td>
<td>6 mm, solid carbide, for mitres, L=100 / 35 mm, shaft=10</td>
<td></td>
</tr>
</tbody>
</table>

### P-System CNC groove cutter, Ø 100.4 x 7

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>132142</td>
<td>× 30 mm, 4 / 6.6 / DTK 48 mm, Z3</td>
<td></td>
</tr>
<tr>
<td>132145</td>
<td>× 30 mm, 4 / 6.6 / DTK 48 mm, Z6</td>
<td></td>
</tr>
</tbody>
</table>

* Suitable for all cutter arbors listed below

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>132143</td>
<td>× 40 mm, 4 / 5.5 / DTK 52 mm, Z3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E.g. for angle aggregates, Flex 5, Flex 5+</td>
<td></td>
</tr>
<tr>
<td>132144</td>
<td>× 16 mm, 4 / 5.5 / DTK 28 mm, Z3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E.g. for corner notching aggregate</td>
<td></td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>132150</td>
<td>Shaft Ø 20 × 50, L = 102 mm</td>
<td></td>
</tr>
<tr>
<td>132151</td>
<td>Shaft Ø 25 × 60, L = 102 mm</td>
<td></td>
</tr>
<tr>
<td>132152</td>
<td>Shaft Ø 16 × 50, L = 85 mm</td>
<td></td>
</tr>
<tr>
<td>132153</td>
<td>Shaft Ø 16 × 55, L = 68 mm</td>
<td></td>
</tr>
<tr>
<td>132154</td>
<td>Shaft Ø 16 × 50, L = 85 mm, with clamping surface (2°- angle)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E.g. for aggregate for door locks</td>
<td></td>
</tr>
<tr>
<td>132155</td>
<td>Shaft Ø 20 × 50, L = 85 mm, with clamping surface (2°- angle)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>E.g. for aggregate for door locks</td>
<td></td>
</tr>
</tbody>
</table>

### P-System CNC shaft tool cutter

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>131342</td>
<td>Solid carbide, shaft Ø 12 x 40, L = 80mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Only for machining panel centres with 5 axis CNC machines</td>
<td></td>
</tr>
</tbody>
</table>

### Positioning pins for Zeta P2

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>251048</td>
<td>Ø 5 mm, 1 pairs</td>
<td></td>
</tr>
<tr>
<td>251066</td>
<td>Ø 8 mm, 1 pairs</td>
<td></td>
</tr>
</tbody>
</table>

### Positioning clip for Zeta P

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>251067</td>
<td>Ø 6 mm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>For positioning in the Clamex access hole (6mm)</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 180°</th>
<th>Corner 90°</th>
<th>Centre wall 90°</th>
<th>Mitre 22.5° – 180°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portal</td>
<td>3/4</td>
<td>1 × P-System cutter 1 × cutter arbor 1 × drill Ø 6 mm</td>
<td><img src="image1.png" alt="Diagram" /></td>
<td><img src="image2.png" alt="Diagram" /></td>
<td><img src="image3.png" alt="Diagram" /></td>
<td><img src="image4.png" alt="Diagram" /></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 × P-System cutter (2) × cutter arbor 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 1 × cutter arbor 1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>1 × P-System cutter + adaptor 1 × P-System drill Ø 6 mm + adaptor</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
<td>1 × P-System cutter 1 × cutter arbor 1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2 × P-System cutter (2) × P-System cutter arbor 1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nesting</td>
<td>3/4</td>
<td>1 × drill Ø 5 mm 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 1 × cutter arbor 1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>5</td>
<td>1 × P-System cutter 1 × cutter arbor 1 × P-System drill Ø 6 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Possible
- Only possible with Zeta P2 and positioning pins
- Possible with shaft tool
- Not possible

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

More on page 40
Advantages in the production process

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

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

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

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

---

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

Tip: For mitres, spare yourself a tool change and drill the hole using a manual drill jig!
Ideas for standardising the machining on a CNC machine

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

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

---

**Ideal combination of CNC machines and Zeta P2**

**Positioning drill holes on a CNC**

Combining strengths: Precise drilling on a CNC machine; use these drill holes to position the Zeta P2 to cut the P-System grooves.

This application is especially ideal for nesting machines, when the cost for an additional aggregate can’t be justified or the machine cannot be upgraded anymore.

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>ø 5 mm</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>251048</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ø 8 mm</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>251066</td>
<td></td>
</tr>
</tbody>
</table>

---

**Positioning clip for Zeta P2**

<table>
<thead>
<tr>
<th>ø 6 mm</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>251067</td>
<td></td>
</tr>
</tbody>
</table>

For positioning in the Clamex access hole (6mm)

---

**Clamex P-14, element with the lever**

box with 2’000 pcs .................................................... 145338

**Clamex P-10, element without lever**

box with 2’000 pcs .................................................... 145358

**Clamex P-10, element Medius**

box with 2’000 pcs .................................................... 145369
Cutting the groove in the surface

1. Drill the positioning holes with the CNC, Ø 5 mm / Ø 8 mm

3. Insert the positioning pins in the Zeta P2

2. Hole pattern of the positioning drill holes

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

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

2. Insert the positioning clip

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

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

from left to right: Ivan Gehrig, production foreman and Daniel Hofer, market specialist and junior manager of Stöcklin kitchens, Switzerland
Joining with the Lamello System
An exceptionally efficient, simple and precise joining system for panels

How it works

1. Cut grooves
2. Apply glue
3. Insert biscuits
4. Clamp work piece

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

Advantages and properties

Fast – Lateral sliding tolerance

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

Easy – Same groove depth for both sides

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

Precise – Established cutting principle with disc cutter

- Disc-shaped tools cannot bend or flex
- Always parallel, precise grooves – despite wood knots or fast working
- No tool change for 13 different joining elements
- Low maintenance cost throughout the long life of the power tool, maintenance comprises one cutting tool only

Versatile – Thin flat joining element with minimal installation depth

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

Matching machines: Classic X, Top 21

Original wooden Lamello biscuits

C10 / C20 Biscuit for solid surface

C10: 53 × 19 × 4 mm
C20: 60 × 23 × 4 mm

Corian glue

K20 Clamping element

60 × 24 × 4.5 mm

Champ Slide-in connector

64 × 26 × 4 mm

PUR glue

Simplex Detachable slide-in connector

54 × 23 × 4 mm

PUR glue

Carbide tipped cutter:
Ø 78 × 3 × 22 mm
Art.No. 132009

S6
S6: 85 × 30 × 4 mm

PVA glue

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

H9
H9: 38 × 12 × 3 mm

S6: 85 × 30 × 4 mm

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

H9
H9: 38 × 12 × 3 mm
Standard carbide tipped cutter:
Ø 100 × 4 × 22 mm / Art.No. 132000 / 132106

**Metal** Detachable slide-in connector
57.2 × 25.4 × 4 mm

**Fast** Clip-in connector
56 × 25.4 × 4 mm

---

**E20** Self-clamping element

**E20-L**
56 × 11.5 × 4 mm

**E20-H**
23 × 28 × 4 mm

**Clamex S** Connector with screw insertion
66 × 29 × 8 mm

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

---

Visible connections
Lamello-System
Invisible connections
Versatile application with 15 joining elements …

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

Original wooden biscuits

20*

E20-L*
Self-clamping element

10*

E20-H*
Self-clamping element

0*

K20*
Clamping element

The large wooden Lamello biscuit S6*

Simplex*
Slide-in connector to be glued with PUR glue

Metal*
Detachable slide-in connector with screw insertion

C20*
Solid surface element

C10*
Solid surface element

Champ*
Slide-in connector to be glued with PUR glue

Fast*
Detachable clip-in connector with self-cutting edges

Clamex S-18
Detachable connector with screw insertion
Cutter with reversible carbide blades 8 mm

The small wooden Lamello biscuits H9
Carbide tipped cutter 3 mm

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

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

Trimming
Trimming of solid wood or plastic edges, Edge trimming unit Nova and carbide-tipped saw blade

… and 4 additional applications
Original Lamello biscuit joiners
These properties make the difference

**Multifunctional stop square** included in the kit

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

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

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

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

---

**Swivelling front with fixed rotational point**

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

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

- **Safe process** guarantees always precise, parallel grooves

- **No inaccuracies or source of mistakes** because the height cannot be adjusted

- **Application with the swivelling front**

  With the 4 mm spacer for 12 mm dividing panel (groove in the centre)

- **Application with the baseplate**

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

---

**High-precision machined application surfaces**

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

- **Long-life precision guide** provides exact, parallel grooves for perfect fit of the work pieces
The original biscuit joiner for every workshop. Choose Lamello for precision, reliability, longevity and many other benefits.

**Classic X**

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

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

**Classic X**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>101600S</td>
<td>in systainer</td>
</tr>
<tr>
<td>101600K</td>
<td>in carton</td>
</tr>
</tbody>
</table>

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

Accessories can be found from page 92 onwards
Top 21

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

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

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

3. Precision cutter
   with 4 scoring teeth and hub

4. Including dust bag
   and adapter Ø 36 mm

Technical data
Power ......................................... 1050 W
Voltage ....................................... 230 V
Speed ......................................... 9’000 min-1
Cutter ......................................... Carbide tipped cutter with hub Ø 100 x 4 x 22 mm
Teeth .......................................... Z2 + V4 with scoring teeth
Cutting depth max ...................... 20 mm
Weight ........................................ 3.5 kg

Top 21
Art.No.
in systainer ........................................... 1015005
in systainer with carbide reversing blade cutter .. 101500DSMMW

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

Accessories can be found from page 92 onwards
The original wooden biscuit

The Original
Swiss production
Swiss timber
Lamello quality

Advantages and properties

1. Rounded smooth edges
   - Easy handling and insertion

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

Diagonal fiber orientation
- Excellent breaking strength

Wood biscuits

<table>
<thead>
<tr>
<th>Carton Size</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 20</td>
<td>1000</td>
<td>144020</td>
</tr>
<tr>
<td>Size 10</td>
<td>1000</td>
<td>144010</td>
</tr>
<tr>
<td>Size 0</td>
<td>1000</td>
<td>144000</td>
</tr>
<tr>
<td>Size S6</td>
<td>1000</td>
<td>144006</td>
</tr>
<tr>
<td>Size H9</td>
<td>1000</td>
<td>144009</td>
</tr>
<tr>
<td>Size 20, 10, 0</td>
<td>1000 (500, 250, 250)</td>
<td>144030</td>
</tr>
<tr>
<td>Size 20, 10, 0</td>
<td>400 (240, 80, 80)</td>
<td>144032</td>
</tr>
</tbody>
</table>

Wood biscuits

<table>
<thead>
<tr>
<th>Blister Size</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size 20</td>
<td>80</td>
<td>144520</td>
</tr>
<tr>
<td>Size 10</td>
<td>80</td>
<td>144510</td>
</tr>
<tr>
<td>Size 0</td>
<td>80</td>
<td>144500</td>
</tr>
<tr>
<td>Size S6</td>
<td>40</td>
<td>144506</td>
</tr>
<tr>
<td>Size H9</td>
<td>250</td>
<td>144509</td>
</tr>
</tbody>
</table>

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

Minicol / Servicol
The all purpose glue applicator

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

**Dosicol**
The efficient glue applicator with metering pump

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

**Glue applicator Minicol**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>175500</td>
<td>Minicol Mod. KS ... with plastic nozzle</td>
</tr>
<tr>
<td>175550</td>
<td>Minicol Mod. M ... with metal nozzle</td>
</tr>
</tbody>
</table>

**Glue applicator Servicol**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1755560</td>
<td>Servicol Mod. KS ... with plastic nozzle</td>
</tr>
<tr>
<td>175570</td>
<td>Servicol Mod. M ... with metal nozzle</td>
</tr>
<tr>
<td>175580</td>
<td>Servicol Mod. X ... with pointed nozzle</td>
</tr>
</tbody>
</table>

**Nozzles for Minicol and Servicol**

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>335511</td>
<td>Plastic nozzle</td>
</tr>
<tr>
<td>285512</td>
<td>Metal nozzle</td>
</tr>
<tr>
<td>335522</td>
<td>Pointed nozzle for biscuits size H9</td>
</tr>
<tr>
<td>285509</td>
<td>Metal nozzle</td>
</tr>
</tbody>
</table>

**Glue applicator Dosicol**

<table>
<thead>
<tr>
<th>Size</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mod. 20, for Lamello grooves... 20 and 10</td>
<td>177000</td>
</tr>
<tr>
<td>Mod. D, for dowel holes... Ø 8, 10, 12 mm</td>
<td>177007</td>
</tr>
</tbody>
</table>

**Nozzles for Dosicol**

<table>
<thead>
<tr>
<th>Size</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>for Lamello grooves... 20 and 10</td>
<td>287020</td>
</tr>
<tr>
<td>for Minispot recesses... 2 and 22</td>
<td>287022</td>
</tr>
<tr>
<td>... 4</td>
<td>287024</td>
</tr>
<tr>
<td>for dowel holes... Ø 8, 10, 12 mm</td>
<td>287027</td>
</tr>
</tbody>
</table>

**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>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>175021</td>
<td>1 piece of clamps</td>
</tr>
<tr>
<td>175005</td>
<td>5 m clamping belt</td>
</tr>
<tr>
<td>175008</td>
<td>8 m clamping belt</td>
</tr>
<tr>
<td>175060</td>
<td>1 piece without belt</td>
</tr>
<tr>
<td>175050</td>
<td>4 pieces profile sections 20 cm</td>
</tr>
<tr>
<td>335000</td>
<td>Per meter m¹</td>
</tr>
<tr>
<td>175200</td>
<td>2 pieces tension hooks</td>
</tr>
<tr>
<td>175401</td>
<td>4 pieces profile sections 60 cm</td>
</tr>
<tr>
<td>175402</td>
<td>2 pieces tension hooks</td>
</tr>
<tr>
<td>175403</td>
<td>length 40 cm</td>
</tr>
<tr>
<td>175403</td>
<td>length 60 cm</td>
</tr>
</tbody>
</table>

**Parts**

- Clamps... 2 pieces
- Buckle for clamps... 1 piece
- Polyester belt for clamps... 1 Rolle
- Tension hooks... 2 pieces
- Profile sections... 4 pieces
- 5 m clamping belt
- 8 m clamping belt
- Per meter m¹
- length 12 cm
- length 40 cm
- length 60 cm

Lamello-System

Dosicol

The efficient glue applicator with metering pump

**Advantages and properties**
- One stroke glue application
- The volume is easily adjusted by the metering ring
- Accurate dispensing, optimal for biscuit and dowel joints
- Available in 3 different models
- Volumetric capacity: 450 ml (4.5 dl)
Clamex S connector
For aesthetic constructions. Demountable, flexible and easy. Installation in an 8mm groove with screws

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

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

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

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

Accessories can be found from page 92 onwards

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

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

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

Applications of E20
- Door frames
- Furniture plinths
- Elongating of panels and profiles
- Ideal on site

Technical data
Size E20-L ................................... 56 x 11.5 x 4 mm
Size E20-H .................................. 23 x 28 x 4 mm
Cutter ......................................... Ø 100 x 4 x 22
Material ...................................... Fibreglass reinforced plastic

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

How it works

**E20-H**
1. Cut groove
2. Apply glue
3. Insert E20-H
4. Finished!

**E20-L**
1. Cut groove
2. Apply glue
3. Insert E20-L
4. Finished!
**Fast**
Detachable clip-in connector with self-cutting edges

**Advantages and properties**
– For workpieces such as covers, blinds or profiles **to clip-in**
– Fast installation, no waiting time before continuing
– Clip-in and detachable, **without lateral movement** (sliding)

With installation tool and clip for cutting depth

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

**Metal**
Heavy duty detachable slide-in connector with screw insertion

**Advantages and properties**
– For **detachable constructions** such as shelves, covers or as glueing aid
– With **integrated stop** for blocking one side if required
– **Adjustable joint pressure** due to screws
– Fast installation, no waiting time before continuing the work

With 83 screws of each size 3 x 13 and 3 x 25, clip for cutting depth

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

**Champ**
Slide-in connector to be glued with PUR glue

**Advantages and properties**
– **Glueing aid** for furniture when assembling mitres and corners
– **Glue work pieces** with various shapes **without clamps**
– Ideal for wood and all wood composites

With installation template

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

**K20**
Clamping element

**Advantages and properties**
Clamping aid for work pieces which are difficult to clamp, e.g. screens, crown moulding etc.
Use in combination with wooden Lamello biscuits.
Made of plastic, barbed cross ribs for grip.

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

Solid surface element

**Advantages and properties**

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

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

**Simplex**

Detachable slide-in connector

**Advantages and properties**

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

<table>
<thead>
<tr>
<th>Cutter</th>
<th>Size (mm)</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 100 x 4 x 22</td>
<td>54 x 23 x 4.1</td>
<td>50 pair</td>
<td>166101</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 pair</td>
<td>166100</td>
</tr>
</tbody>
</table>

Inserting tool for Simplex (For accurate positioning of Simplex)  

| Art.No. | 166110 |
Invis Mx2

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

Walter Fankhauser, Production Manager at Röthlisberger, Gohl Branch, in Emmental, Switzerland
Invis Mx2-System
Joining with the
Invis Mx2 System
Magnet-driven connections with an even higher clamping force!

Invisible as if glued, versatile as if screwed!

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

Powerful mechanical connections
Detachable within seconds
Completely invisible
No openings | no protective caps | no filler | a perfect look!

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

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

Drill the hole for the Invis Mx2 connector with …
… the Rasto drill jig or a CNC machine

Fast and easy installation

Save time!

1. Screw the connector into the pre-drilled hole
2. Screw in the stud vertically using the insertion jig
3. Join and clamp the connection using MiniMag Mx2
4. If desired, open the connection by reversing the rotation of the cordless drill

<table>
<thead>
<tr>
<th>Kits</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invis Mx2 Starter Kit (in systainer)</td>
<td>6100300</td>
</tr>
<tr>
<td>– MiniMag Mx2</td>
<td></td>
</tr>
<tr>
<td>– 20 Invis Mx2 connector sets with 14 mm stud</td>
<td></td>
</tr>
<tr>
<td>– Rasto drill jig with 12 mm drill bit, depth adjuster, bushing</td>
<td></td>
</tr>
<tr>
<td>– Screw bit</td>
<td></td>
</tr>
<tr>
<td>– Flexible shaft</td>
<td></td>
</tr>
<tr>
<td>– Insertion jig</td>
<td></td>
</tr>
<tr>
<td>MiniMag Mx2 Kit (in cardboard box)</td>
<td>6100301</td>
</tr>
<tr>
<td>MiniMag Mx2, screw bit</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Invis Mx2 connector set</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>with 14 mm stud</td>
<td>20 pieces</td>
<td>6012300</td>
</tr>
<tr>
<td>with 30 mm stud</td>
<td>20 pieces</td>
<td>6012301</td>
</tr>
<tr>
<td>with 14 mm stud incl. insertion jig</td>
<td>20 pieces</td>
<td>6012333</td>
</tr>
<tr>
<td>35 mm Invis Mx2 connector</td>
<td>20 pieces</td>
<td>6012317</td>
</tr>
<tr>
<td>14 mm stud</td>
<td>20 pieces</td>
<td>6012312</td>
</tr>
<tr>
<td>30 mm stud</td>
<td>20 pieces</td>
<td>6012309</td>
</tr>
<tr>
<td>Centre-wall stud for 10-30 mm thickness</td>
<td>10 pieces</td>
<td>6012208</td>
</tr>
<tr>
<td>Screw bit</td>
<td>1 piece</td>
<td>6112205</td>
</tr>
<tr>
<td>Flexible shaft for MiniMag Mx2</td>
<td>1 piece</td>
<td>6100204</td>
</tr>
<tr>
<td>Invis Mx2 insertion jig for studs 14 mm</td>
<td>1 piece</td>
<td>6112333</td>
</tr>
</tbody>
</table>
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 32mm hole rows
- Ideal for exact drilling of holes for Invis Mx elements and studs

Holes in the centre of 16 and 19 mm panels

Holes in the centre of any workpiece thickness

Mitre connections

Dividing wall connections

Furniture handle holes and 32 mm hole rows

32 mm hole rows by referencing from the last hole

8 mm or 12 mm hole rows by referencing from the last hole
Invis Mx2-System

Applications of Rasto

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

Rasto Art.No.

Basic Kit ................................................................. 126005
In a cardboard box: 1 transparent perforated plate,
4 drill bushings Ø 5, 8, 10, 12 mm, 3 positioning bolts,
1 fastening screw

Mono Kit ............................................................... 126001
In a systainer: 1 transparent perforated plate, 4 drill bushings
Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm,
3 positioning bolts, 1 fastening screw, 1 Invis Mx2 spacer,
1 Invis Mx2 insertion bush

Duo Kit ............................................................... 126002
In a systainer: 2 transparent perforated plates, 8 drill bushings
2x Ø 5, 8, 10, 12 mm, 3 wood drill bits Ø 5, 8, 12 mm,
6 positioning bolts, 2 fastening screws, 1 connection rod,
1 Invis Mx2 spacer, 1 Invis Mx2 insertion bush

Accessories Art.No.

Perforated plate for Rasto drill jig .............................. 6160000
Bolt Ø 5 x 40 for Rasto drill jig .................................. 6160001
Drill bush for Rasto drill jig:
Ø 5 mm ..................................................................... 6100065
Ø 6 mm ..................................................................... 6100056
Ø 8 mm ..................................................................... 6100057
Ø 10 mm ................................................................... 6100067
Ø 12 mm ................................................................... 6100058
Depth adjuster for drill bit for Rasto drill jig:
Ø 5 mm ..................................................................... 6100059
Ø 6 mm ..................................................................... 6100063
Ø 8 mm ..................................................................... 6100060
Ø 10 mm ................................................................... 6100064
Ø 12 mm ................................................................... 6100061

Wood drill bit with centring tip for Rasto drill jig:
Ø 5 mm ..................................................................... 6100160
Ø 6 mm ..................................................................... 6106161
Ø 8 mm ..................................................................... 6108060
Ø 10 mm ................................................................... 6110162
Ø 12 mm ................................................................... 6112060
500 mm connection rod, two-part ................................ 6160601
Fastening screw ......................................................... 6560450
Invis Mx2 spacer for Rasto ........................................... 6112331
Invis Mx2 insertion bush for studs 14mm ..................... 6112330
Joining with the Glueing System
An ingenious 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»
Optimise glue application: precisely set the ideal quantity.

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

Efficient
«As fast as possible»
Save time: apply efficiently with the correct nozzle, minimise cleaning requirement
Glue applicators
LK 3, LK 5, LK 10
Glue applicator for water soluble glues

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

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

Typ | Art.No.
--- | ---
LK 3 | 502003
LK 5 | 502005
LK 10 | 502010

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

Accessories can be found from page 96 onwards
Glue pistols
LK 0, LK 100

Glue pistols for various applications

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

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

Accessories can be found from page 96 onwards
Glue nozzles

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

Advantages and properties

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

for edges

<table>
<thead>
<tr>
<th>Size</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brush</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>Adjustable edge roller</td>
<td>10–46 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>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>w x d</td>
<td></td>
</tr>
<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>
### Gluing System for Surfaces

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

### Gluing System for Joints

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

* according to your requirements
Repairing with the Minispot System
For the repair of wood defects and damaged areas such as resin pockets, small knots or damaged edges

How it works

1. Cut the defect  
2. Apply the glue  
3. Insert the Minispot patch  
4. Plane the surface

Advantages and properties

System solution

«Where all parts match»  
– All necessary components such as machines, templates, cutters and patches are made to fit ideally

Efficient and professional

«Field-proven and suited for the industry»  
– Easy and fast positioning due to the markings and the see-through cover on templates and machines  
– Efficient tools and standard attachment for dust extraction

Easy and complete

«The ideal solution for every situation»  
– Diverse patch sizes for damaged areas available, single patches and patch rods from 85–500 mm  
– Suitable system solutions for repairs of surfaces or edges

Fast

«Fast completion of the repair»  
– Optimal hold of the patches due to the fine interlocking in the wood surface  
– No long waiting time after gluing

Invisible

«Quality which pays off»  
– Fine interlocking makes the patch invisible  
– Patch takes on the same colour as the surrounding wood or can be stained, oiled or laquered accordingly
G20 S2
The Minispot grooving machine to cut grooves for patches sizes 2, 4, 22, 8, 20

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

Technical data
<table>
<thead>
<tr>
<th>Power</th>
<th>1'000 W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>230 V</td>
</tr>
<tr>
<td>Speed</td>
<td>10'000 min⁻¹</td>
</tr>
<tr>
<td>Max. groove depth</td>
<td>20 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>4.4 kg</td>
</tr>
</tbody>
</table>

Minispot G20 S2  Art.No.
in carton .......................................................... 111750

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

Accessories  Art.No.
Stop square for edge patches ........................................ 121755
für G20 S2
To cut Minispot-grooves on edges
for all models since 2005

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

Accessories can be found from page 92 onwards
G2A
The Minispot grooving machine to cut grooves for patches size 2 and 8

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

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

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

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

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

Accessories can be found from page 92 onwards
**Patchmaker 2**

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

---

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

**Step 2:**
Cut profile

**Step 3:**
Cut profile

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

---

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

---

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

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

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

Accessories can be found from page 92 onwards
Plano 45 S2

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

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

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

**Plano 45 S2**

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

**Kit contains**

Machine with:
set of tools, manual

Accessories can be found from page 92 onwards
Patches

To patch wood defects and damaged areas

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

Sizes of wood types not listed here are available on request

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Size 2</th>
<th>Size 2</th>
<th>Size 4</th>
<th>Size 20</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 pieces</td>
<td>500 pieces</td>
<td>200 pieces</td>
<td>160 pieces</td>
</tr>
<tr>
<td>Spruce-fir³</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 0004</td>
<td>15 0020U</td>
</tr>
<tr>
<td>Pine³</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>15 3504</td>
<td>15 3520</td>
</tr>
</tbody>
</table>

Jumbo Box

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 pieces</td>
<td>15 0002*</td>
</tr>
<tr>
<td>500 pieces</td>
<td>15 0020</td>
</tr>
</tbody>
</table>

Industrial package

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 pieces</td>
<td>15 0002*</td>
</tr>
<tr>
<td>200 pieces</td>
<td>15 0020</td>
</tr>
<tr>
<td>2500 pieces</td>
<td>15 0020</td>
</tr>
</tbody>
</table>

Edge patches

<table>
<thead>
<tr>
<th>Size</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>55 pieces</td>
<td>15 0023</td>
</tr>
<tr>
<td>850 pieces</td>
<td>15 0023</td>
</tr>
</tbody>
</table>

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

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

Articles not in stock cannot be returned.
### Patches

**Multibox**

<table>
<thead>
<tr>
<th>Patches</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>with Minispot patches assorted</td>
<td>156580</td>
</tr>
<tr>
<td>beech, oak, ash, spruce-fir, pine, hemlock, cherry, larch, mahogany, walnut, sapelli, silver fir</td>
<td></td>
</tr>
</tbody>
</table>

### Patching rods

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Size</th>
<th>Length</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>85 mm</td>
<td>250 mm</td>
<td>500 mm</td>
<td></td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>2</td>
<td>250 mm</td>
<td>100</td>
<td>15 0002L25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>100</td>
<td>15 0002L50</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>22</td>
<td>250 mm</td>
<td>50</td>
<td>15 0022L25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>50</td>
<td>15 0022L50</td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>20</td>
<td>250 mm</td>
<td>45</td>
<td>15 0020L25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>45</td>
<td>15 0020L50</td>
</tr>
<tr>
<td>Pine</td>
<td>2</td>
<td>250 mm</td>
<td>100</td>
<td>15 0302L25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>100</td>
<td>15 0302L50</td>
</tr>
<tr>
<td>Larch, Siberian</td>
<td>20</td>
<td>250 mm</td>
<td>220</td>
<td>15 5220L08</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>45</td>
<td>15 5220L25</td>
</tr>
</tbody>
</table>

**Industrial package**

<table>
<thead>
<tr>
<th>Wood species</th>
<th>Size</th>
<th>Length**</th>
<th>Quantity</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>250 mm</td>
<td>500 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spruce-fir</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
<td>15 0020IL25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>630</td>
<td>15 0020IL50</td>
</tr>
<tr>
<td>Pine</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
<td>15 0320IL25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>630</td>
<td>15 0320IL50</td>
</tr>
<tr>
<td>Larch</td>
<td>20</td>
<td>250 mm</td>
<td>900</td>
<td>15 0820IL25</td>
</tr>
<tr>
<td></td>
<td>2</td>
<td>500 mm</td>
<td>630</td>
<td>15 0820IL50</td>
</tr>
</tbody>
</table>

**Knot patches and Crossbar pins**

**Knot patches box of 250 pieces**

<table>
<thead>
<tr>
<th>Ø  10 mm Art.No.</th>
<th>Ø 15 mm Art.No.</th>
<th>Ø 20 mm Art.No.</th>
<th>Ø 25 mm Art.No.</th>
<th>Ø 30 mm Art.No.</th>
<th>Ø 35 mm Art.No.</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>
</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>
</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>
</tr>
</tbody>
</table>

**Knot patches assorted**

<table>
<thead>
<tr>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spruce-fir</td>
</tr>
<tr>
<td>Pine</td>
</tr>
<tr>
<td>Larch</td>
</tr>
</tbody>
</table>

**Crossbar pin box of 1 kg**

<table>
<thead>
<tr>
<th>Ø  10 mm Art.No.</th>
<th>Ø 15 mm Art.No.</th>
<th>Ø 20 mm Art.No.</th>
<th>Ø 25 mm Art.No.</th>
<th>Ø 30 mm Art.No.</th>
<th>Ø 35 mm Art.No.</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>
</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>
</tr>
</tbody>
</table>

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

**Nominal length = Traverse path**
Renovating Windows

«The Tanga Delta is the perfect machine for window replacement since it is fast, robust and reliable. A guaranteed clean job for the customer!»

Pascal Scheffer, Installer of Hefesta-Fensterbau Heil GmbH in Steinwenden, Germany
Window replacement with the Tanga Delta
Clean and efficient window replacement
For good customer care

How it works

1. Unpack the machines
2. Cut the window out
3. Pull the window out
4. Install the new window

Advantages and properties

High working speed
- Powerful 1600 W motor with ideal weight-power ratio

Cuts into the corner
- Deep cuts into the corner with the Tanga Delta S2

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

Only one cut
- Cutting depth up to 68 mm

Flat, light construction

Low dust emission
- Ideal air flow channeling minimises dust emissions

Safe
- Smoothly running base plate is instantly retracted by the strong spring

Only 5.4 kg but 1600 W power!
Tanga Delta

The ideal machine for window replacement.

Tanga Delta S2

- Cut into the stone wall
- Base plate for cuts into corner
- 45° cut into the corner
- Cut-out for the weatherboard
- Shortening doors
- Tanga with rabbet stop

Tanga Delta H

- Cut into the timber frame
- Tanga Delta S2 – Cut into the stone wall
- Tanga Delta S2 – Cut into the timber frame

Advantages and properties

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

Tanga Delta S2 – Cut into the stone wall

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

Tanga Delta H – cut into the timber frame

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

Applications with Tanga Delta S2

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

Technical data

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

Tanga Delta S2

- Diamond blade .............. Ø 180 x 2.6 x 22 mm
- Cutting depth .............. adjustable 0 – 58 mm (optional 0 – 68 mm with 200 mm saw blade)

Tanga Delta H

- Carbide saw blade .............. Ø 200 x 2.4 x 22 mm
- Cutting depth .............. adjustable 0 – 68 mm

in wooden case

- Art.No.
  - Tanga Delta S2 with diamond blade ..................... 111553
  - Tanga Delta H with saw blade for wood .................. 111560

Kit contains

- 4 m suction hose with suction stub, set of tools, safety glasses,
  - Tanga Delta S2: Diamond blade
  - Tanga Delta H: Carbide saw blade

Accessories can be found from page 92 onwards
Variocut
The expansion gap and parquet cutter for gap width 4 – 8 mm

Advantages and properties

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

Application

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

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>1050 W</td>
</tr>
<tr>
<td>Voltage</td>
<td>230 V</td>
</tr>
<tr>
<td>Speed</td>
<td>10,000 min⁻¹</td>
</tr>
<tr>
<td>Carbide tipped cutter</td>
<td>Z20, Ø 100 x 2.4 x 22 mm</td>
</tr>
<tr>
<td>Gap width</td>
<td>4 – 8 mm (1/10 per step), or more by use of a spacer</td>
</tr>
<tr>
<td>Cutting depth</td>
<td>adjustable 0 – 20 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>3.5 kg</td>
</tr>
</tbody>
</table>

Variocut Art.No. 111450

Kit contains

Machine with:
- saw blade, set of tools, manual

Accessories can be found from page 92 onwards
Edge processing with the Profila
The edge profiling machine with a stable surface for various jobs

Advantages and properties

Stepless fine adjustment

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

Stable working

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

All shapes, any job

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

All standard cutters

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

Variable tool opening

25 mm or 34 mm depending on the cutter size

Large base plate

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


**Profila**

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

---

**Advantages and properties**

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

**Profila E plus, Profila Pro plus**

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

---

**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>25'000 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>

---

**Kit contains**

Machine with:
- carbide tipped cutter 22, R 2 mm, collet chucks 6 mm and 8 mm, set of tools, manual, dust cover

Accessories can be found from page 92 onwards
Cantex Ergo
The high-precision planer for top quality flush-milling of solid wood edges

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

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

Cantex Ergo Art.No. 111857

Kit contains
Machine with:
- set of tools, manual

Accessories Art.No.
Parallel guide stop for Cantex Ergo / S2 121290
For efficient flush-milling of protruding wood edges on materials with finished surfaces (melamine, veneer)
Prevents cutting into the finished surface!

Accessories can be found from page 92 onwards
Accessories / Spare Parts
Accessories / Clamex P

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

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

**Drill**  
Art.No.  
Spiral drill Ø 6 mm with centering point ................................................................. 131506

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

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

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

**Cover caps, 100 pieces**  
Art.No.  
90°  
RAL 9010, White .......................................................... 335280  
RAL 9011, Black .......................................................... 335281  
RAL 1014, Ivory .......................................................... 335282  
RAL 1011, Brown beige .................................................. 335283  
RAL 8007, Brown .......................................................... 335284  
RAL 8017, Dark brown .................................................. 335289

45°  
RAL 9010, White .......................................................... 335380  
RAL 9011, Black .......................................................... 335381  
RAL 1014, Ivory .......................................................... 335382

**Cover caps, 100 pieces (continued)**

90°  
RAL 9002, Grey-white .................................................. 335285  
RAL 7035, Light grey .................................................. 335286  
RAL 7040, Window grey .................................................. 335287  
RAL 7031, Blue grey .................................................. 335288

45°  
RAL 1011, Brown beige .................................................. 335383  
RAL 8017, Brown .................................................. 335384  
RAL 7022, Umbra grey .................................................. 335388
**Accessories / P-System**

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

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

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

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

**Divario P-18 Installation tool for positioning pins**  
Art.No. 125520  
Installation tool for the insertion of the positioning pins

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

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

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

**Carbide tipped groove cutter, Ø 100 x 4 x 22 mm**

Z2 + V4 scoring teeth, 4 screw holes, hub .............. for Zeta, Top 20, Top 21, Classic 132000

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

**Art.No.** 132000

**Carbide tipped groove cutter, Ø 78 x 3 x 22 mm**

Z4, 4 Screw holes, with hub for biscuit H9 ............. for Zeta, Top 20, Top 21, Classic 132001

**Art.No.** 132001

**Carbide tipped groove cutter with reversible blades, Ø 100 x 4 x 22 mm**

Z2 + V2, 4 screw holes with hub .......................... for Zeta, Top 20, Top 21, Classic 132002

Z4 + V4, 4 screw holes without hub, with spacer ...... for Zeta, Top 20, Top 21, Classic 132130

Set of 4 pieces .............................................. for Art.No. 132002 132111

Set of 10 pieces main teeth ................................ for Art.No. 132130 132134

Set of 10 pieces scoring teeth ............................ for Art.No. 132130 132135

Replacement-Set, 4 scoring teeth + 4 main teeth ...... for Art.No. 132130 132133

**Art.No.** 132002

**Carbide tipped groove cutter with reversible blades, Ø 100 x 8 x 22 mm**

(Clamex S connector)

Z4 + V4, 4 screw holes ..................................... for Top 20, Top 21, Classic 132136

Set of 10 pieces main teeth ............................... for Art.No. 132108 132136

Set of 10 pieces scoring teeth ............................ for Art.No. 132108 132137

Replacement-Set, 4 scoring teeth + 4 main teeth ...... for Art.No. 132108 132114

**Art.No.** 132108

**Slide shoe, to protect the wall and the machine**

from year of manufacture 1999 ............................ for Experta, Classic C2, C3 251057

Top 20, S2, S3, S4, Top 21, Zeta

**Art.No.** 251057

**Edge trimming unit Lamello Nova**

For trimming of projecting wooden ...................... for all biscuit joiner 121280

and plastic edges 18 mm

**Art.No.** 121280

**Carbide tipped saw blades for expansion gaps, Ø 100 x 2.4 x 22 mm**

Z20, 4 screw holes, 2 spacers ............................ for Zeta, Top 20, Top 21, Classic 132350

**Art.No.** 132350

**Accessories for saw blades**

Spacer, 40 x 20 x 1 mm with screw holes ................ for Zeta, Top 20, Top 21, Classic 322510

Flange M8 .................................................. for Zeta, Classic 252502

Flange M10 .................................................. only for Classic 252504

**Art.No.** 322510, 252502, 252504

---

**Applications of saw blades for cutting expansions gap**

<table>
<thead>
<tr>
<th>Expansion gap width</th>
<th>8 mm</th>
<th>9 mm</th>
<th>10 mm</th>
<th>11 mm</th>
<th>12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Classic C2, C3, 3S Pa, Zeta</td>
<td>![8 mm icon]</td>
<td>![9 mm icon]</td>
<td>![10 mm icon]</td>
<td>![11 mm icon]</td>
<td>![12 mm icon]</td>
</tr>
<tr>
<td>Height adjustment</td>
<td>-2</td>
<td>-1</td>
<td>±0</td>
<td>+1</td>
<td>+2</td>
</tr>
<tr>
<td>Top 20, S2, S3, S4</td>
<td>![Height adjustment icon]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Top 21</td>
<td>![Height adjustment icon]</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Accessories / Lamello-System

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

#### Clamex S installation set
Drill jig for 30° – 150° incl. drill and carbide tipped groove cutter.  
Art.No. 125250

With reversible blades 8 mm (132108) for Lamello biscuit joiner

#### Spacer for biscuit joiner
5 mm, Aluminium for 18 mm panels for Top 21 / Zeta / Classic  
Art.No. 253027

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

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

### LK 3, LK 5, LK 10

**Art.No.** 533205

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

### LK Rolling base with handle

**Art.No.** 533204

For LK 5 and LK 3:
- On 4 wheels with pushing handle
- Complete with water container and hook for suspension of hose
- Dimensions 254 x 254 x 820 mm

### LK Rolling base

**Art.No.** 533201

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

### Accessories / Spare Parts

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector</td>
<td>533250</td>
</tr>
<tr>
<td>US for water tap</td>
<td>533251</td>
</tr>
<tr>
<td>Cleaning brush</td>
<td>533252</td>
</tr>
<tr>
<td>Ø 40 x 100 mm</td>
<td>533253</td>
</tr>
<tr>
<td>Length 340 mm</td>
<td>533254</td>
</tr>
<tr>
<td>Service container</td>
<td>533255</td>
</tr>
<tr>
<td>Volume 3 litres</td>
<td>533256</td>
</tr>
<tr>
<td>Water reservoir complete</td>
<td>533257</td>
</tr>
<tr>
<td>Inside dimensions Ø 60 x 90 mm</td>
<td>533258</td>
</tr>
<tr>
<td>Distributor</td>
<td>533259</td>
</tr>
<tr>
<td>For 2 – 3 additional hoses</td>
<td>533260</td>
</tr>
<tr>
<td>Connector</td>
<td>533261</td>
</tr>
<tr>
<td>with external thread</td>
<td>M8</td>
</tr>
<tr>
<td>with 2 screws</td>
<td>533262</td>
</tr>
<tr>
<td>M4 x 10</td>
<td>533263</td>
</tr>
<tr>
<td>for round nozzle + pointed nozzle</td>
<td>533264</td>
</tr>
<tr>
<td>Hose mounted</td>
<td>533265</td>
</tr>
<tr>
<td>Ø 10 x 4000 mm</td>
<td>533266</td>
</tr>
<tr>
<td>Ø 13 x 4000 mm</td>
<td>533267</td>
</tr>
<tr>
<td>Hose</td>
<td>533268</td>
</tr>
<tr>
<td>Ø 10 mm per meter</td>
<td>533269</td>
</tr>
<tr>
<td>Ø 13 mm per meter</td>
<td>533270</td>
</tr>
<tr>
<td>Hose fitting set</td>
<td>533271</td>
</tr>
<tr>
<td>Ø 10 mm</td>
<td>533272</td>
</tr>
<tr>
<td>Ø 13 mm</td>
<td>533273</td>
</tr>
<tr>
<td>Empty glue container</td>
<td>533274</td>
</tr>
<tr>
<td>incl. cover with 1 hole</td>
<td>3 kg</td>
</tr>
<tr>
<td>incl. cover with 1 hole</td>
<td>5 kg</td>
</tr>
<tr>
<td>incl. cover with 2 holes</td>
<td>10 kg</td>
</tr>
<tr>
<td>Lid for glue container without hole</td>
<td>5 kg</td>
</tr>
<tr>
<td>Lid for glue container without hole</td>
<td>10 kg</td>
</tr>
<tr>
<td>Bracket with 2 screws for roller nozzle</td>
<td>552822</td>
</tr>
</tbody>
</table>

### Dosicol / Minicol / Servicol

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glue bottle with metering pump for Dosicol</td>
<td>287012</td>
</tr>
<tr>
<td>Metering pump complete for Dosicol</td>
<td>287013</td>
</tr>
<tr>
<td>Cap for glue bottle for Dosicol</td>
<td>337001</td>
</tr>
<tr>
<td>Base for Dosicol</td>
<td>287010</td>
</tr>
<tr>
<td>Water container for Dosicol</td>
<td>337040</td>
</tr>
<tr>
<td>Adapter for nozzels for Dosicol</td>
<td>533232</td>
</tr>
<tr>
<td>Glue bottle Minicol, Servicol for Minicol / Servicol</td>
<td>335510</td>
</tr>
<tr>
<td>Base, solid wood for Minicol for Minicol</td>
<td>285515</td>
</tr>
<tr>
<td>Base, plastic for Servicol for Servicol</td>
<td>335513</td>
</tr>
</tbody>
</table>
Carbide tipped cutters for Lamello wood repair machines

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

Carbide tipped saw blade Z20

Art.No.
Ø 100 x 2.4 x 22 mm ............................................. for Patchmaker 2, Patchmaker 20, Variocut 132301
for Patchmaker 20, Variocut ........................................ 132350
Ø 100 x 2.4 x 22 mm with 2 spacers ..................... for Patchmaker 2, Patchmaker 20, Variocut
Profile blades for Art.No. 132220 ................................ Size 20 ........................................... 132221

Carbide tipped profile cutter Z2

Art.No.
Shaft-Ø 8 mm ........................................... for Patchmaker 2 ........................................... 131600

Carbide tipped profile cutter Z2+2

Art.No.
Ø 80 x 29 x 20 mm ........................................... for Patchmaker 20 131620
for 1 x Size 20 ........................................... 131620
for 2 x Size 2 ........................................... 131621
Carbide tipped saw blades
Ø 200 x 2.4 x 22 mm (cutting depth 68 mm) for Tanga Delta
Z12, 4 screw holes .......................................................... 132322
Z24, 4 screw holes .......................................................... 132320
Z24, 4 NL, higher resistance against screws, high cutting performance ...................... 132323
Z24, 4 NL, (only suited for cutting into the wood without moving the machine) ............. 132321
Screw M4x8 for saw blades ............................................................................................................

Ø 200 x 2.2 x 22 mm (cutting depth 68 mm) for Tanga Delta
Z32, for aluminium windows .......................................................... 132324

Ø 180 x 2.4 x 22 mm (cutting depth 58 mm) for Tanga Swiss, 1811, Dia
Z12, 6 screw holes ........................................................................... 132317
Z24, 6 screw holes ........................................................................... 132318
Z24 special, 6 screw holes, only for cutting into the wood without moving the machine ....... 132319

Ø 150 x 2.4 x 22 mm (cutting depth 45 mm) for Tanga 150, 1511
Z12, 6 screw holes ........................................................................... 132315
Z24, 6 screw holes ........................................................................... 132316
Z26 special, 6 screw holes, only for cutting into the wood without moving the machine ....... 132314

Diamond blades
Ø 200 x 2.6 x 22 mm (cutting depth 68 mm) for Tanga Delta
4 screw holes, for a clean cut into tiles and plaster ................................................................. 132517
4 screw holes, segmented for soft materials ............................................................................. 132522
4 NL, for PVC windows with steel core ................................................................................... 132523

Ø 180 x 2.6 x 22 mm (cutting depth 58 mm)
4 screw holes ........................................................................... 132519
4 screw holes ........................................................................... 132518

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

Accessories
Rabbet stop for Tanga for Tanga 180, 1811 S, Swiss ................................................................. 251525
for Tanga Delta H, S2 ........................................................................... 121556
Base plate for corners for Tanga Delta H, S2 ........................................................................... 321548
2 rolls for base plate for Tanga Delta H, S2 ........................................................................... 251554

Carbide tipped saw blades
Ø 120 x 2.4 x 22 mm for 3S Pa
Z20, with 2 spacers ........................................................................... 132312
Z20, with flange M8 ........................................................................... 132382

Ø 100 x 2.4 x 22 mm
Z20, with 2 spacers ........................................................................... 132350
Z20, without spacer rings ........................................................................... 132301

Accessories for saw blades
Flange M8, with screws ........................................................................... 252502
Spacer ........................................................................... 322501
40 x 22 x 0.5 mm ........................................................................... 322502
## Accessories / Edge processing

<table>
<thead>
<tr>
<th><strong>Carbide tipped edge cutters</strong></th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Radius 2 mm, shaft-Ø 8 mm.</strong></td>
<td>for Profila E, P</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Base plates</strong></th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>with gap, Ø 100 mm.</td>
<td>for Profila E</td>
</tr>
<tr>
<td></td>
<td>for Profila, Pro</td>
</tr>
<tr>
<td>without gap, Ø 100 mm.</td>
<td>for Profila E</td>
</tr>
<tr>
<td></td>
<td>for Profila P2, Pro plus</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Collet chucks</strong></th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 mm.</td>
<td>for Profila E (L 48, L 50, 230 V)</td>
</tr>
<tr>
<td>8 mm.</td>
<td>for Profila E (L 48, L 50, 230 V)</td>
</tr>
<tr>
<td>1/4&quot;.</td>
<td>for Profila E (L 48, L 50, 230 V)</td>
</tr>
<tr>
<td>6 mm.</td>
<td>for Profila E (L 51, 120 V)</td>
</tr>
<tr>
<td>8 mm.</td>
<td>for Profila E (L 51, 120 V)</td>
</tr>
<tr>
<td>1/4&quot;.</td>
<td>for Profila E (L 51, 120 V)</td>
</tr>
<tr>
<td>6 mm.</td>
<td>for Profila P2, Pro, Pro plus</td>
</tr>
<tr>
<td>8 mm.</td>
<td>for Profila P2, Pro, Pro plus</td>
</tr>
<tr>
<td>1/4&quot;.</td>
<td>for Profila P2, Pro, Pro plus</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Dust cover</strong></th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Individually adjustable position, with stopper for the bearing.</td>
<td>for Profila E, Pro, P2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Carbide tipped reversible blades (3 pieces)</strong></th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>45 x 12 x 1.5 mm, angle 55° (from 2006)</td>
<td>for Cantex Ergo, Plano 45</td>
</tr>
<tr>
<td>45 x 12 x 1.5 mm, angle 45° (until 2006)</td>
<td>for Cantex, Plano 45</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Carbide tipped profile cutter</strong></th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 30 mm.</td>
<td>for Lamina, 90° and 35°</td>
</tr>
<tr>
<td></td>
<td>for Lamina, 90° and 22°</td>
</tr>
</tbody>
</table>
# Suction accessories

## Suction set complete

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

## Parts

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

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

**Advantages and properties**
- The inflatable installation cushion works like an adjustable wedge
- Installation of window and door frames
- Fitting, and unhinging doors
- Lifting, pressing and setting workpieces
- Load capacity: max. 100 kg / pcs., Joint width: 2 – 50 mm

### Worktop jig

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

### Carbide tipped cutters

<table>
<thead>
<tr>
<th>Size</th>
<th>Shaft</th>
<th>Art.No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ø 12.7 x 50 mm</td>
<td>Ø 12 mm</td>
<td>131305</td>
</tr>
<tr>
<td>total length 100 mm</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Spare parts for cutter 131305

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>131310</td>
<td>Carbide-Reversing blades 10 pieces</td>
</tr>
<tr>
<td>352202</td>
<td>Set screw M2½ x 2½ for reversible blades 131310</td>
</tr>
</tbody>
</table>

**Advantages and properties**
- For precise cutting of the recess necessary to join worktops / countertops in 90° or 2 x 45° angles
- Water resistant, heat and light resistant
- To be used with a router, guide bush Ø 30 mm, cutter shank 12.7 mm

### Miscellaneous

<table>
<thead>
<tr>
<th>Art.No.</th>
<th>Description</th>
</tr>
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<tbody>
<tr>
<td>135017</td>
<td>Finishing disc, fine (Grain 500)</td>
</tr>
<tr>
<td>135032</td>
<td>Grinding disc, rough (Grain 60)</td>
</tr>
</tbody>
</table>
## Accessories / Spare Parts

### Guide

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<tbody>
<tr>
<td>Guide</td>
<td>25 4301</td>
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### Base plate

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### Base plate incl. Swivelling stop

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### Cassette

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<td>Cassette</td>
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### Swivelling stop

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<td>Swivelling stop</td>
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### Spacer 4 mm

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### Spacer 2 mm

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<tr>
<td>Spacer 2 mm</td>
<td>25 3026</td>
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### Anti-slip pad

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<td>Anti-slip pad</td>
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### Front stop, plastic

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<tr>
<td>Front stop, plastic</td>
<td>25 1044</td>
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### Stop square

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</table>
The complete spare parts list is on our website. www.lamello.com

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

Spare parts and accessories availability guaranteed for at least 10 years
Joining with the P-System
Clamex P-14

Detachable connecting fitting
Size: 66 x 27 x 9.7 mm

Tensile strength
Particle board: ~ 800 N
Beech: ~ 1000 N

Art.No.
80 pairs 145334
300 pairs 145346
1000 pairs 145356

Clamex P-10

Detachable connecting fitting
Size: 52 x 19 x 9.7 mm

Tensile strength
Particle board: ~ 600 N
Beech: ~ 900 N

Art.No.
80 pairs 145372
300 pairs 145373
1000 pairs 145374

Clamex P Medius 14 / 10

Detachable connecting fitting for centre panels
Size: 66 x 13.5 x 9.7 mm
52 x 7.5 x 9.7 mm

Tensile strength
Particle board: ~ 700 N
Beech: ~ 900 N

Art.No.
80 pairs 145301
300 pairs 145302
1000 pairs 145303

Art.No.
80 pairs 145304
300 pairs 145305

Bisco P-14

Aligning element suitable for Clamex P-14 + Tenso P-14 and Clamex P-10
Size: 66 x 27 x 9.7 mm

Tensile strength
Particle board: ~ 800 N
Beech: ~ 1000 N

Art.No.
80 pairs 145315
300 pairs 145325
1000 pairs 145335

Art.No.
80 pairs 145345
300 pairs 145355
1000 pairs 145365

Self-clamping fitting as gluing aid
Size: 66 x 27 x 9.7 mm

Art.No.
80 pairs 145515
300 pairs 145525
1000 pairs 145535

Bisco P-10

Size: 52 x 19 x 9.7 mm

Tensile strength
Particle board: ~ 600 N
Beech: ~ 900 N

Art.No.
80 pairs 145370
300 pairs 145371
1000 pairs 145372

Divario P-18

Self-clamping, invisible fitting for slide insertion
Size: 65 x 16 x 9.7 mm

Art.No.
80 pairs 145550
300 pairs 145560
1000 pairs 145570

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

Bisco P-14 with preload function

Preload clip

Art.No.
80 pairs 145304
300 pairs 145305

Art.No.
80 pairs 145550
300 pairs 145560
1000 pairs 145570

Tensile strength
all materials: ~ 600 N

Art.No.
145301 145302 145303
145304 145305
145315 145325 145335
145345 145355 145365
145370 145371 145372
145373 145374 145375
145376
### Lamello-System

www.lamello.com

<table>
<thead>
<tr>
<th><strong>original wooden biscuit</strong></th>
<th><strong>E 20-L</strong></th>
<th><strong>Clamex S-18</strong></th>
<th><strong>Fast</strong></th>
<th><strong>Metal</strong></th>
<th><strong>Champ</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Original biscuit" /></td>
<td><img src="image" alt="E 20-L" /></td>
<td><img src="image" alt="Clamex S-18" /></td>
<td><img src="image" alt="Fast" /></td>
<td><img src="image" alt="Metal" /></td>
<td><img src="image" alt="Champ" /></td>
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<tr>
<td><strong>0</strong> Art.No. 144000</td>
<td><strong>Self-clamping element</strong></td>
<td><strong>Connector with screw insertion</strong></td>
<td><strong>Clip-in connector</strong></td>
<td><strong>Detachable slide-in connector</strong></td>
<td><strong>Slide-in connector</strong></td>
</tr>
<tr>
<td>1000 pieces 144010</td>
<td>Size 47x15x4 mm</td>
<td>Size 56x11.5x4 mm</td>
<td>Size 66x29x8 mm</td>
<td>Size 57.2x25.4x4 mm</td>
<td>Size 64x24x4 mm</td>
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<td><strong>10</strong> Art.No. 144020</td>
<td><img src="image" alt="Self-clamping element" /></td>
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<td><img src="image" alt="Detachable slide-in connector" /></td>
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</tr>
<tr>
<td>1000 pieces 144020</td>
<td>Size 53x19x4 mm</td>
<td>Size 56x23x4 mm</td>
<td>Size 56x25.4x4 mm</td>
<td>Size 57.2x25.4x4 mm</td>
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<td><img src="image" alt="Connector with screw insertion" /></td>
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<td><img src="image" alt="Detachable slide-in connector" /></td>
<td><img src="image" alt="Slide-in connector" /></td>
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<tr>
<td>1000 pieces 144030</td>
<td>Size 56x23x4 mm</td>
<td>Size 56x23x4 mm</td>
<td>Size 56x23x4 mm</td>
<td>Size 57.2x25.4x4 mm</td>
<td>Size 64x24x4 mm</td>
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<td><strong>H9</strong> Art.No. 144009</td>
<td><img src="image" alt="Self-clamping element" /></td>
<td><img src="image" alt="Connector with screw insertion" /></td>
<td><img src="image" alt="Clip-in connector" /></td>
<td><img src="image" alt="Detachable slide-in connector" /></td>
<td><img src="image" alt="Slide-in connector" /></td>
</tr>
<tr>
<td>1000 pieces 144009</td>
<td>Size 38x12x3 mm</td>
<td>Size 23x28x4 mm</td>
<td>Size 60x24x4.5 mm</td>
<td>Size 54x23x4.1 mm</td>
<td>Size 54x23x4.1 mm</td>
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<td><strong>S6</strong> Art.No. 144006</td>
<td><img src="image" alt="Self-clamping element" /></td>
<td><img src="image" alt="Connector with screw insertion" /></td>
<td><img src="image" alt="Clip-in connector" /></td>
<td><img src="image" alt="Detachable slide-in connector" /></td>
<td><img src="image" alt="Slide-in connector" /></td>
</tr>
<tr>
<td>1000 pieces 144006</td>
<td>Size 85x30x4 mm</td>
<td>Size 23x28x4 mm</td>
<td>Size 60x24x4.5 mm</td>
<td>Size 54x23x4.1 mm</td>
<td>Size 54x23x4.1 mm</td>
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<tr>
<td><strong>Carbide tipped groove cutter</strong> Ø 100 x 4 x 22 mm, Art.No. 132000, 132106</td>
<td><img src="image" alt="E 20-H" /></td>
<td><img src="image" alt="K 20" /></td>
<td><img src="image" alt="C 20 / C 10" /></td>
<td><img src="image" alt="Simplex" /></td>
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<td><img src="image" alt="E 20-H" /></td>
<td><img src="image" alt="K 20" /></td>
<td><img src="image" alt="C 20 / C 10" /></td>
<td><img src="image" alt="Simplex" /></td>
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</tr>
<tr>
<td><strong>E 20-H</strong> Art.No. 132000</td>
<td><strong>Self-clamping element</strong></td>
<td><strong>Clamping element</strong></td>
<td><strong>Biscuit for solid surface</strong></td>
<td><strong>Detachable slide-in connector</strong></td>
<td><img src="image" alt="Self-clamping element" /></td>
</tr>
<tr>
<td>1000 pieces 144009</td>
<td>Size 38x12x3 mm</td>
<td>Size 60x24x4.5 mm</td>
<td>C20, Size 60x23x4 mm</td>
<td>Size 54x23x4.1 mm</td>
<td><img src="image" alt="Self-clamping element" /></td>
</tr>
<tr>
<td><strong>K 20</strong> Art.No. 132106</td>
<td><img src="image" alt="Clamping element" /></td>
<td><img src="image" alt="Biscuit for solid surface" /></td>
<td><img src="image" alt="Detachable slide-in connector" /></td>
<td><img src="image" alt="Slide-in connector" /></td>
<td><img src="image" alt="Self-clamping element" /></td>
</tr>
<tr>
<td>1000 pieces 144009</td>
<td>Size 23x28x4 mm</td>
<td><img src="image" alt="C20, Size" /></td>
<td><img src="image" alt="C20, Size" /></td>
<td><img src="image" alt="Slide-in connector" /></td>
<td><img src="image" alt="Self-clamping element" /></td>
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<tr>
<td><strong>C 20 / C 10</strong> Art.No. 166101</td>
<td><img src="image" alt="Biscuit for solid surface" /></td>
<td><img src="image" alt="Detachable slide-in connector" /></td>
<td><img src="image" alt="Slide-in connector" /></td>
<td><img src="image" alt="Self-clamping element" /></td>
<td><img src="image" alt="Self-clamping element" /></td>
</tr>
<tr>
<td>1000 pieces 166100</td>
<td><img src="image" alt="C20, Size" /></td>
<td><img src="image" alt="C20, Size" /></td>
<td><img src="image" alt="Slide-in connector" /></td>
<td><img src="image" alt="Self-clamping element" /></td>
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