



P-System

Save time daily
Differentiate your product



NEW
Divario P-18
Tenso P-14 Clip



Divario P-18



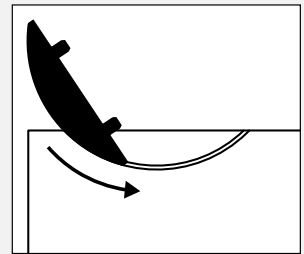
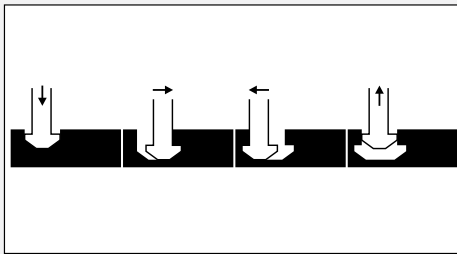
Tenso P-14



Clamex P-14

P-System

Form-locking anchorage
without tools

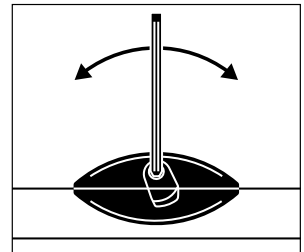
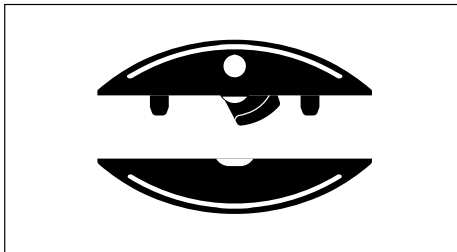


Fast installation

Inserting instead of screwing or
glueing

Clamex P

Detachable connecting fitting



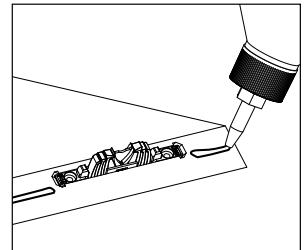
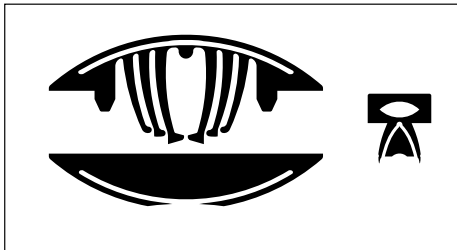
Detachable

Open the connection time and
time again with the rotating lever

Tenso P

with preload clip

Self-clamping fitting as
glueing aid, for all angles

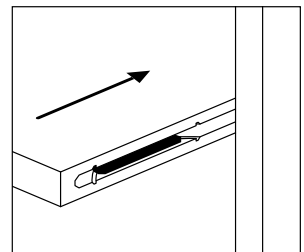
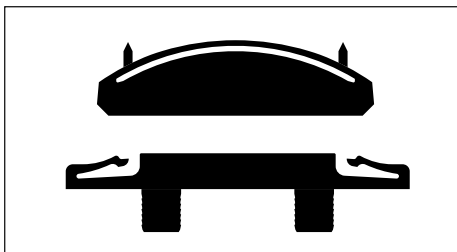


Glueing

Fixed joints of two workpieces

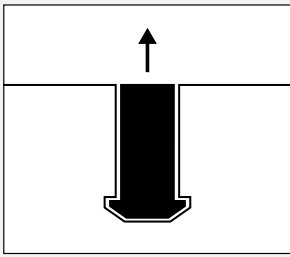
Divario P

Self-clamping, invisible
fitting for slide insertion



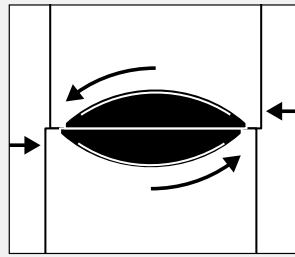
Sliding insertion

Insertion between two fixed sides
or shelves via a guiding groove



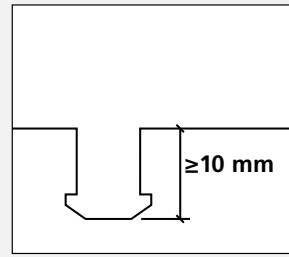
Strong

Form-locking anchorage across large surface areas



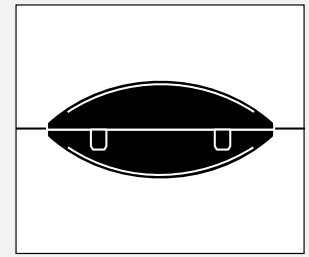
Lateral tolerance

Perfect, flush alignment of both work pieces



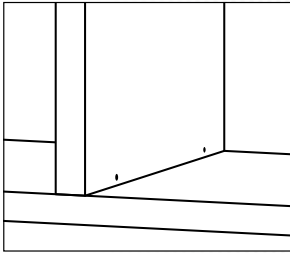
Shallow depth

Minimal cutting depth with maximum tensile strength



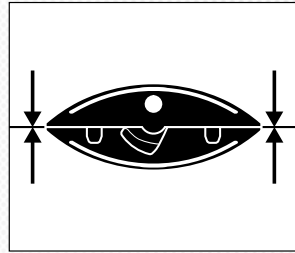
No twisting

The positioning pins prevent twisting without additional dowels



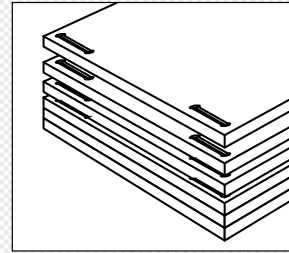
Aesthetic

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



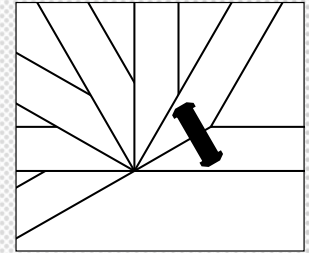
High clamping force

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



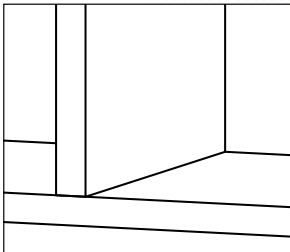
Stackable

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



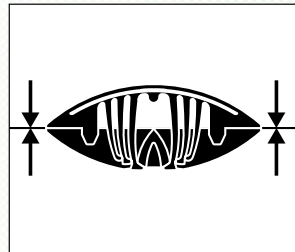
Versatile

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



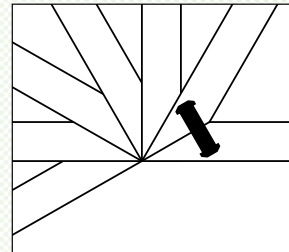
Invisible

No visible fitting



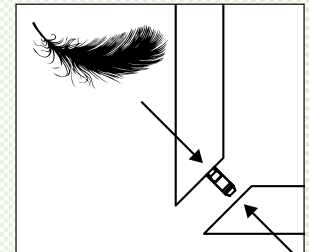
High clamping force

Allows for perfect alignment and clamps the workpieces ~ 15 kg



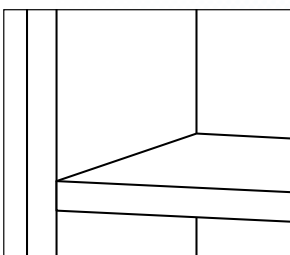
Versatile

Simple gluing of mitre joints



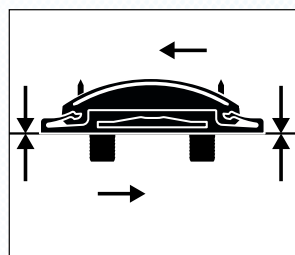
Lower assembly force

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



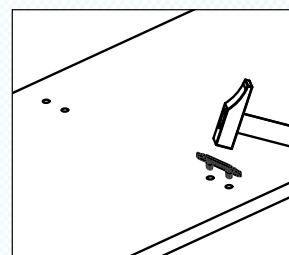
Invisible

Guiding groove covers the fittings



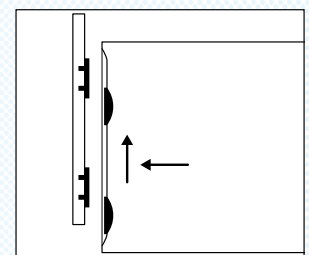
Clamped joint

No resistance while inserting until shortly before building the clamping force



Fast installation

Quick installation of the fittings without glue after transport.

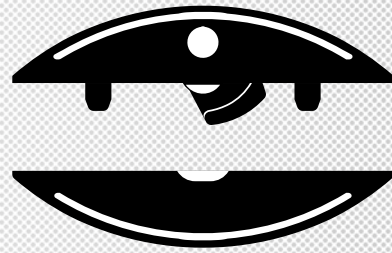


Assemble by sliding

Partially routed guiding groove for completely invisible furniture joints

Clamex P

Detachable connecting fitting



Advantages and properties

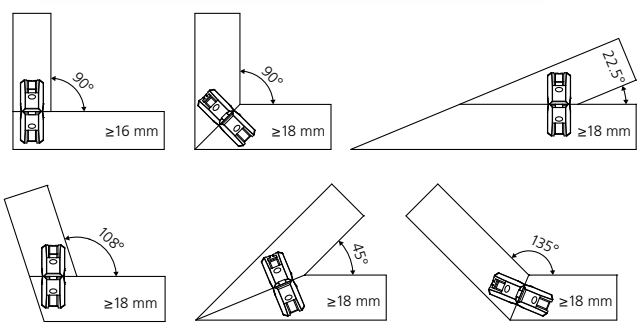
- **Small opening 6 mm**, differentiation to furniture standards
- **Stackable with pre-installed fittings**, advantages in packaging, transport and logistics
- **Short assembly time on site**, minimal installation cost

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

Tensile strength (N)

MDF	~ 900
Particle board	~ 800
Beech	~ 1'000

Clamex P-14

Art.No.

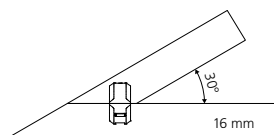
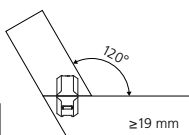
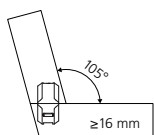
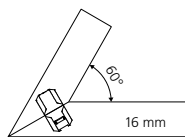
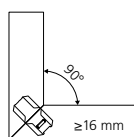
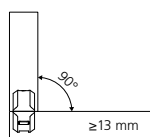
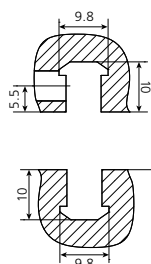
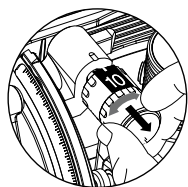
Carton with 80 pairs	145334
Carton with 300 pairs	145346
Carton with 1000 pairs	145356

Drill jig P-System	125344
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Clamex P-10

For panels from 13mm



Technical data

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

Tensile strength (N)

MDF	~ 600
Particle board	~ 600
Beech	~ 900

Clamex P-10

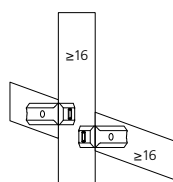
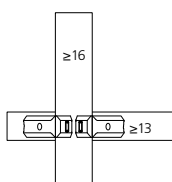
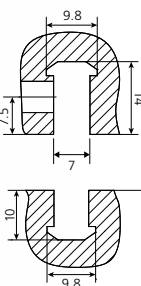
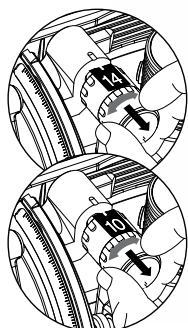
Art.No.

Carton with 80 pairs	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
	52 × 7.5 × 9.7 mm
Cutter.....	Ø 100.4 × 7 × 22
Material of connector.....	fibreglass reinforced plastic
Material of lever.....	zinc die cast
Installation tolerance.....	longitudinal ± 1 mm

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

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

Clamex P Medius 14/10

Art.No.

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

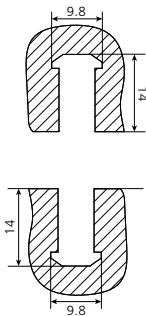
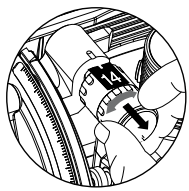
- **Surface structure allows use as a connecting element** when glueing work pieces with PVA glue

Applications of Bisco P

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

Bisco P-14

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



Technical data

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

Bisco P-14

Art.No.

Carton with 80 pieces	145301
Carton with 300 pieces	145302
Carton with 1000 pieces	145303

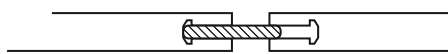
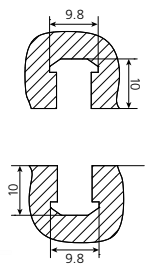
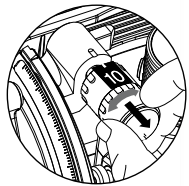
Bisco P-10

Art.No.

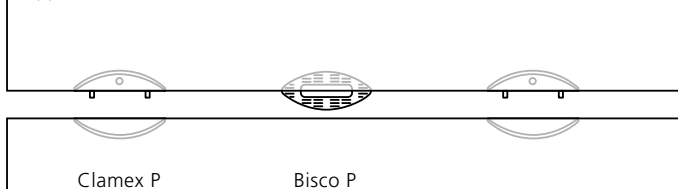
Carton with 80 pieces	145304
Carton with 300 pieces	145305

Bisco P-10

Aligning element suitable for Clamex P-10



Application:



Your advantages with Clamex P

Versatility for all angles

- Same system for all joining situations

Aesthetic solution











- Differentiation to furniture standards

Freedom of choice during assembly

- Detachable or glued construction

Glueing all angles

- High clamping force

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

Applications

interior fitting | cupboards | door frames 45° | tables | beds |
boat interiors | kitchen counter tops | sales counters | etc.

Production process

1. P-groove with Zeta P2

- **Make a joint with 2 fittings in 2 minutes**
- **Short setup time**
- **No side stops necessary – line up to the workpiece edge or to the pencil mark**
- Connector with installation tolerance
- Same profile groove for both workpieces

2. Storage

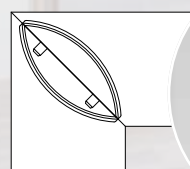
- **Small storage volume when stacking despite installed connector**
- Remove the connector for surface treatment – fast and easy

3. Delivery: in parts

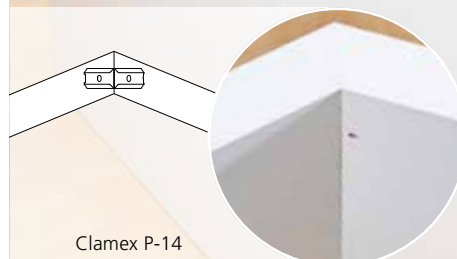
- **Small transport volume** with pre-installed fittings due to stackability
- Easy transport of the parts into the building (stairs, elevator)

4. Assembly on site

- **Efficient trial assembly in the workshop** since connectors stay in the workpiece for transporting
- **Fast and efficient assembly with an allen key**
- **No waiting time after clamping the workpieces**
- No transporting clamps and protectors to and from the job site
- No building of jigs for complex workpieces
- No dowels for line up necessary



Clamex P-14



Clamex P-14

Furniture manufacturing / Interior fitting

Your advantages with Clamex P

Aesthetic solution











– Differentiation to furniture standards

Stackable with pre-installed fittings

– Advantages in packaging, transport and logistics

Short assembly time on site

– Minimal installation cost

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

Applications

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

Production process

1. P-groove with CNC

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

2. Storage

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

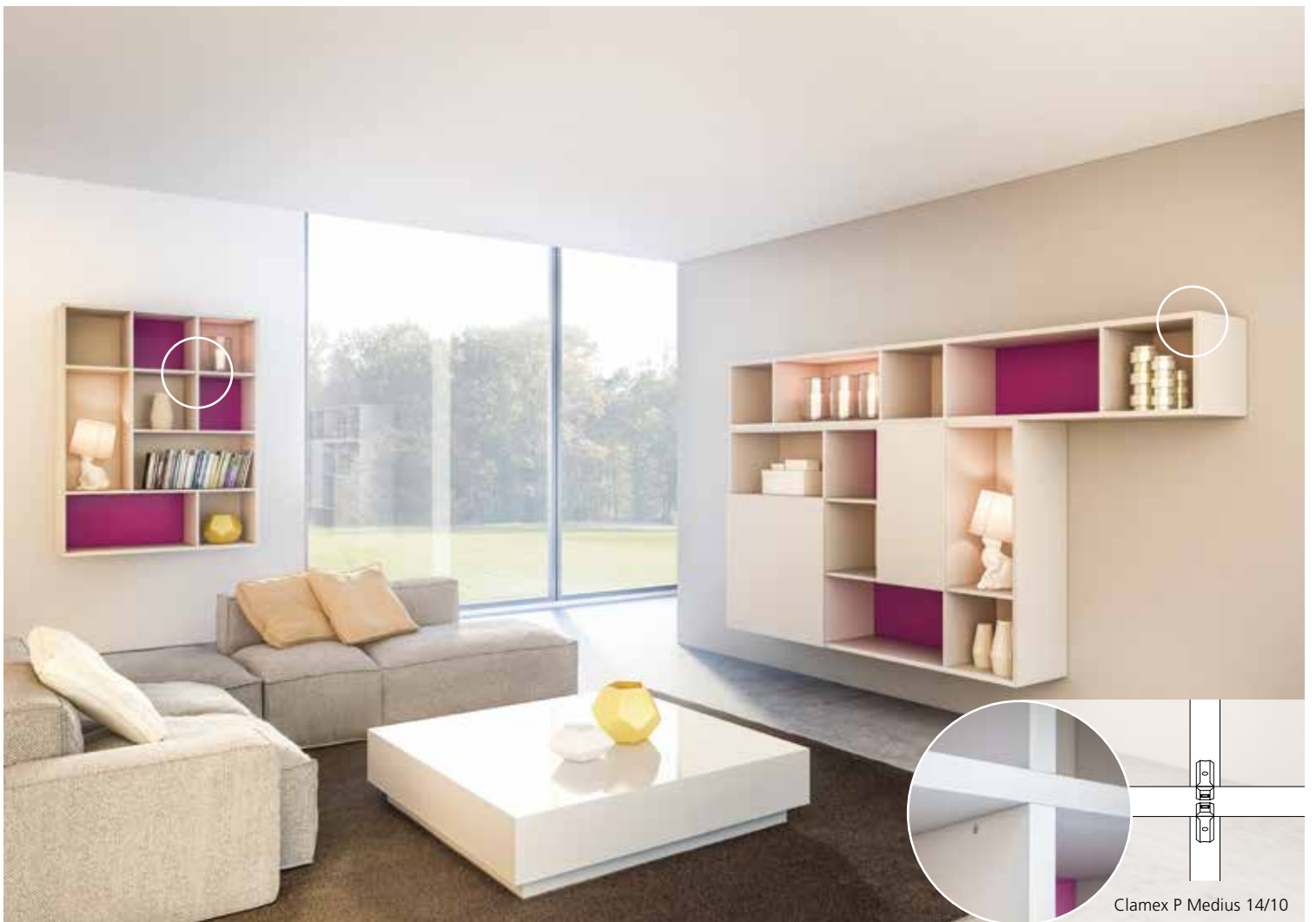
3. Delivery in parts

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

4. Assembly on site

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





Shop fitting / kitchen manufacturing

Your advantages with Clamex P

Stackable with pre-installed fittings

– Advantages in packaging, transport and logistics

Versatility for all angles











– Same system for all joining situations

Freedom of choice during assembly

– Detachable or glued construction

Short assembly time on site

– Minimal installation cost

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

Applications

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

Production process

1. P-System groove with CNC

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

2. Storage

- Small storage volume when stacking despite installed connector
- Remove the connector for surface treatment – fast and easy
- Enable efficient just-in-time production

3. Assembly in the factory

- Fast and easy assembly
- No clamps or protective wood blocks necessary
- No second person required
- No building of jigs for complex workpieces
- No dowels for line up necessary
- No waiting time before the clamps are removed
- Less space used in the assembly area since workpiece quickly continues to the next process

4. Delivery with workpiece assembled

- Short assembly time on site due to pre-installed elements / furniture parts





Clamex P-14

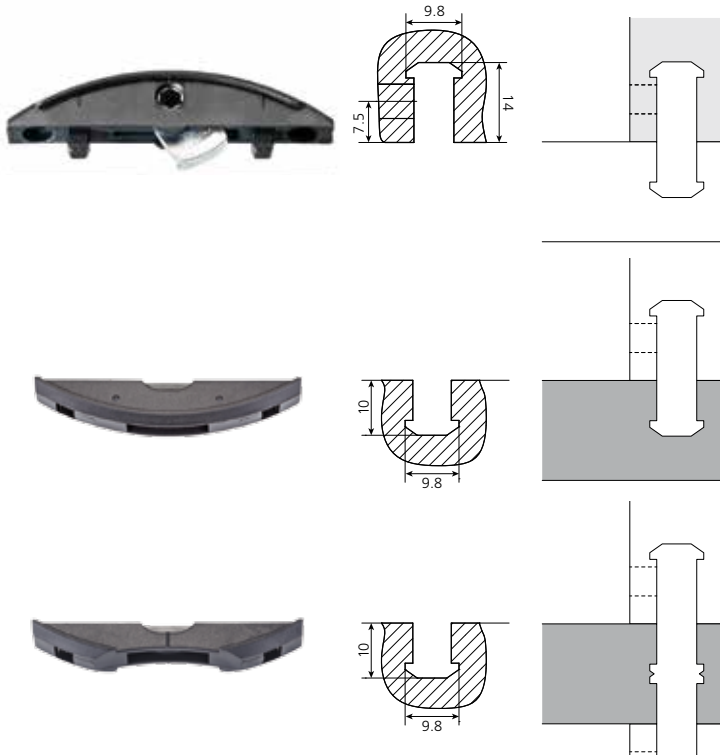
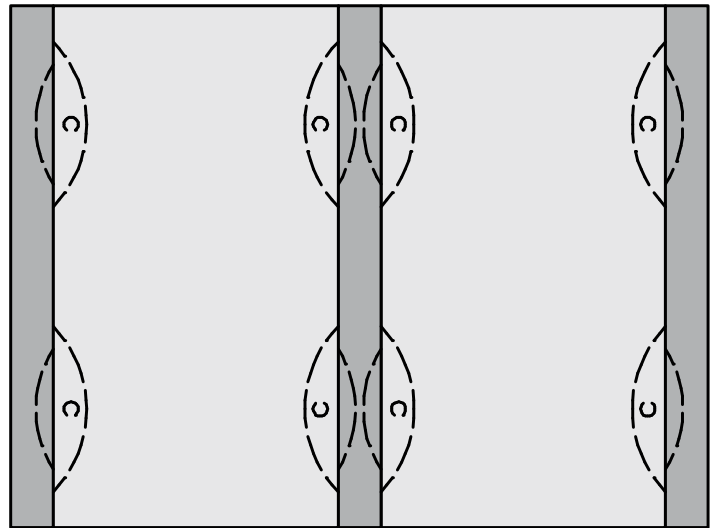
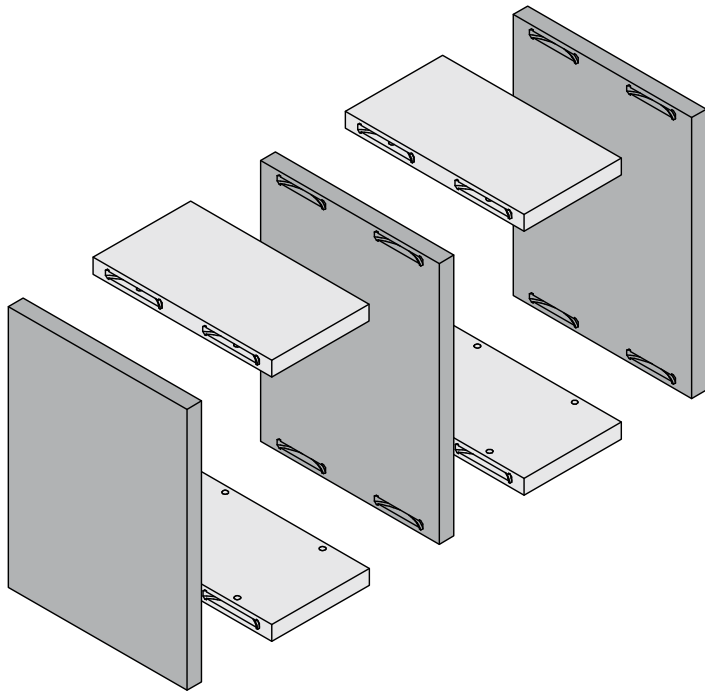


Clamex P-14

Standardising production on a CNC machine

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

Machining depth 10 mm
for all P-Systemgrooves **in the surface**



Clamex P-14, element with lever **Art.No.**
Box with 2'000 pcs **145338**

Clamex P-10, element without lever **Art.No.**
Box with 2'000 pcs **145358**

Clamex P-10, element Medius **Art.No.**
Box with 2'000 pcs **145369**



132140



132141

P-System groove cutter for Zeta P2

Art.No.

Ø 100.4 × 7 × 22 mm, Z3, diamond tipped	132140
Ø 100.9 × 7 × 22 mm, Z3, carbide tipped	132141



125344

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)	



131506

Drill

Art.No.

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



251993

Clamex P assembly tool

Art.No.

For all angles, fast and flexible, Hex 4 × 30 mm, length 290 mm	251993
--	---------------

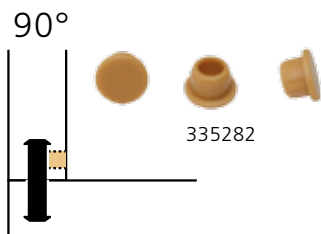


271945

Allen key











Art.No.

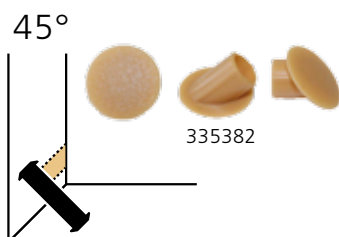
4 mm, 75 × 55 mm	271945
4 mm, 120 × 50 mm	271945A









335282

Cover caps, 100 pieces

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

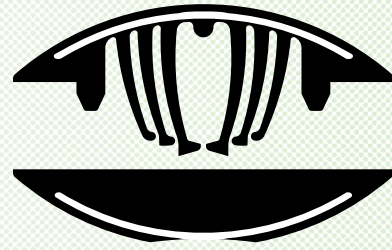


335382

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

Tenso P

Self-clamping fitting as glueing aid, for all angles

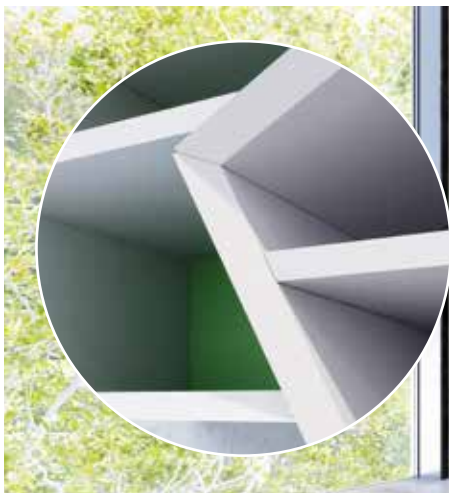


Tenso P-14, advantages and properties

- Use as glueing aid, high clamping force (no screw clamp or press needed)
- Perfectly aesthetic, completely invisible
- Fast + Reliable process, installation without tools (simple + fast, no screws or glue necessary)

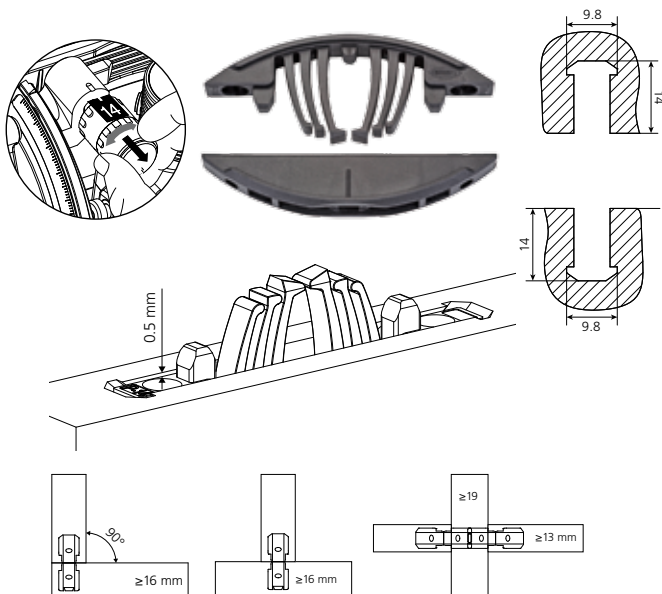
Tenso P-14 with preload clip, advantages and properties

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



Tenso P-14

Faster glueing



Technical data

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

Clamping force (N)

Per fitting ~ 150

Tenso P-14 with preload function

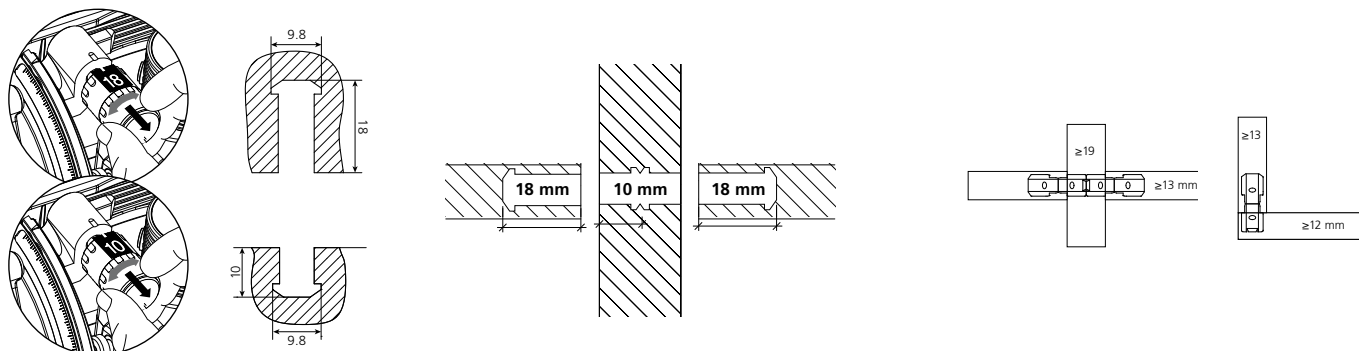
	Art.No.
Carton with 80 pairs (without preload clip).....	145415
Carton with 300 pairs (without preload clip).....	145425
Carton with 1000 pairs (without preload clip).....	145435

Important:

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



Installation with off-set

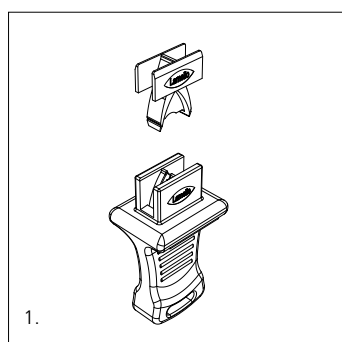
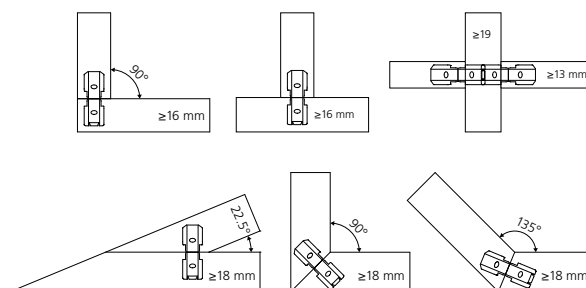


Tenso P-14 + preload clip

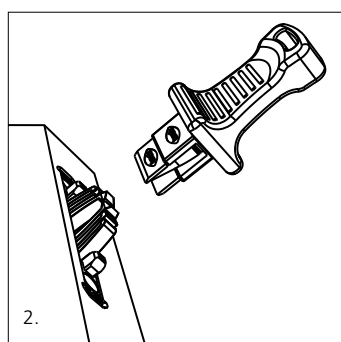
Faster glueing, for all angles

Tenso P-14 Starter-Set	Art.No.
Carton with 80 pairs (with preload clip).....	145415S
Carton with 80 pairs (with preload clip).....	145425S

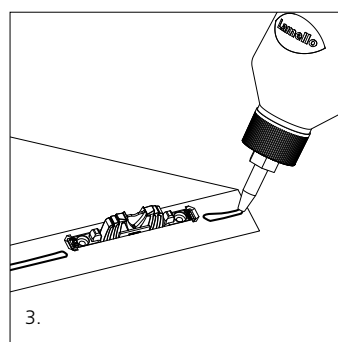
Preload clip	Art.No.
Carton with 300 pieces	145426
Carton with 1000 pieces	145436



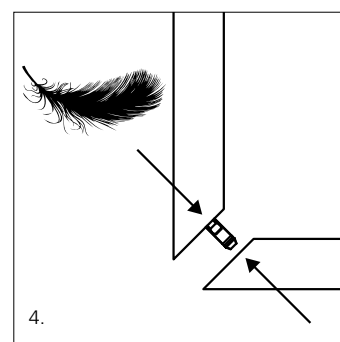
1. Insert preload clip into installation tool



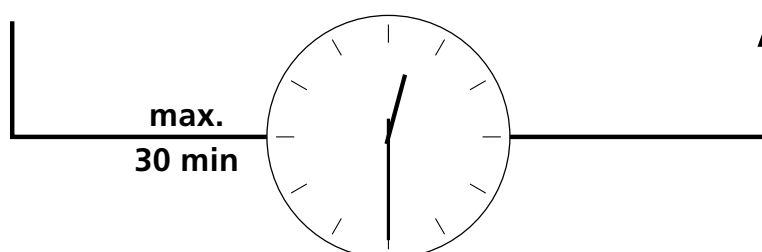
2. Preload the Tenso P-14



3. Apply glue



4. Assemble Work pieces



Furniture manufacturing / Interior fitting











Your advantages with Tenso P-14

Fast glueing process

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

Clamps the joint from the inside

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

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

Applications

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

Production process

1. Cutting the groove with Zeta P2

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

2. Temporary storage

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

3. Assembly in the factory

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

4. Delivery: product already assembled

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



Shop fitting











Your advantages with Tenso P-14

Stackable with pre-installed fittings

– Advantages in packaging, transport and logistics

Short assembly time on site

– Quick and easy glueing without additional aids
– Minimal installation cost

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

Applications

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

Production process

1. Cutting the groove with CNC

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

2. Temporary storage

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

3. Delivery: product in parts

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

4. Assembly on site

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

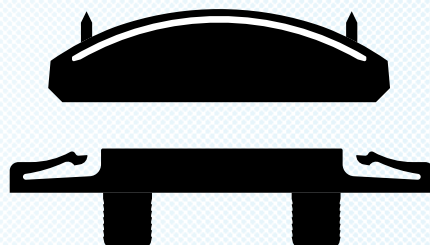


Best of the best

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

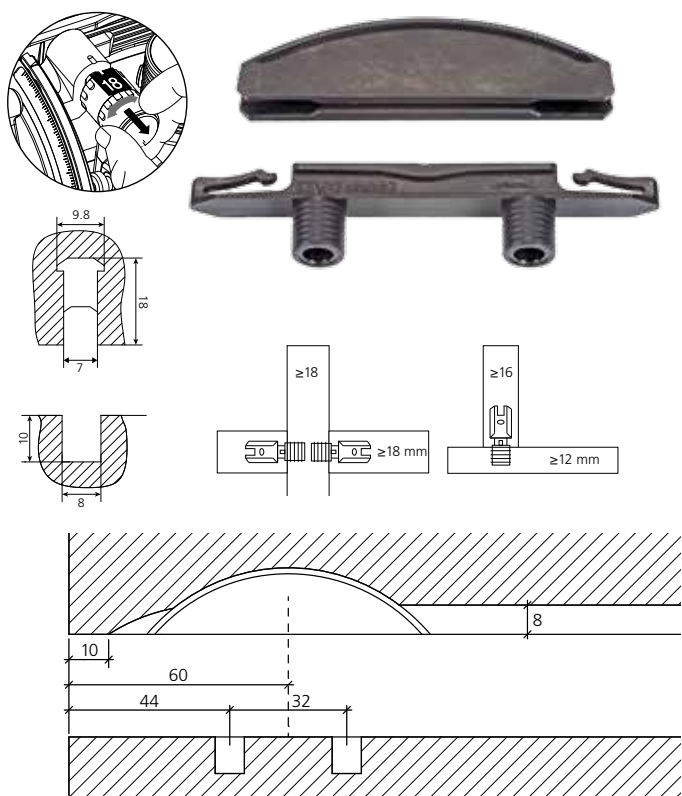
- Narrow element for the use in **shelves from 19 mm**
- No resistance while inserting until shortly before building the clamping force
- **Insertion of shelves** after transport for lower transport weight



Insert Divario P-18

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..... Ø8 × 9 mm, distance 32 mm
 Cutter..... Ø100.4 × 7 × 22
 Material fibreglass reinforced plastic
 Installation tolerance longitudinal ± 1 mm

Load per fitting (N)

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

Tensile strength (N)

all materials 600

Divario P-18

	Art.No.
Starter-Set 80 pairs incl. Installation tool.....	145550S
Carton with 80 pairs	145550
Carton with 300 pairs	145560
Carton with 1000 pairs	145570
Divario P-18 installation tool.....	125500
Divario P-18 marking jig incl. drill	125510
Divario P-18 marking jig in plastic.....	125511
Divario P-18 positioning pins	145546
Divario P-18 installation tool for positioning pins	125520

Furniture manufacturing / Interior fitting

Your advantages with the Divario P-18

Efficient installation

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











Clamped joints

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

Sliding insertion in a second process

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



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

Applications

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



hülsta, D-48702 Stadtlohn

Zeta P2

The fastest joining method with a power tool
Any corner in less than 2 minutes!



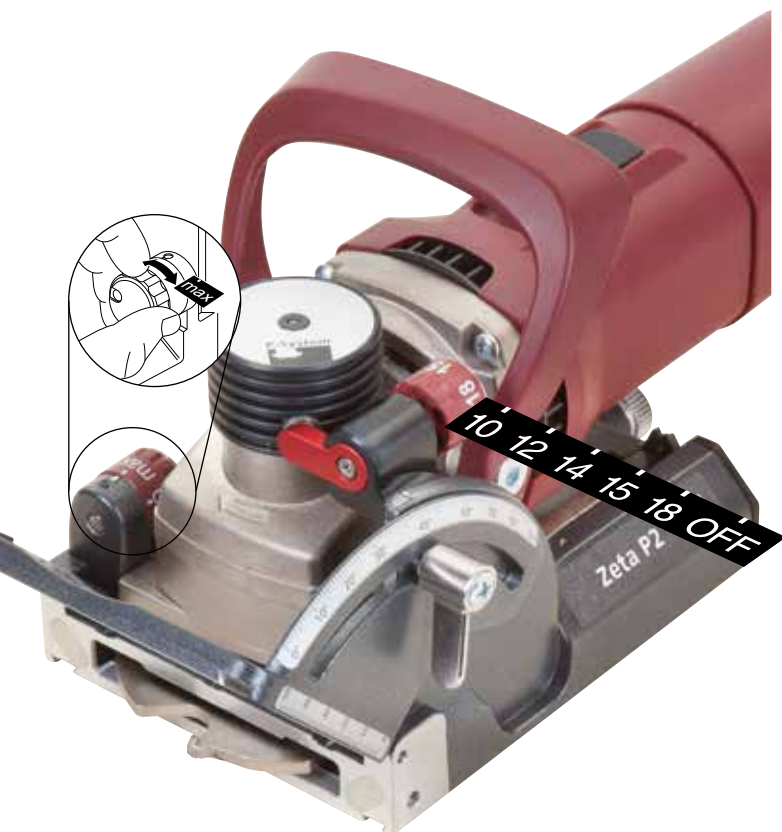
0:30

Cut four P-System grooves with the Lamello Zeta P2
Fast and precise by applying on the workpiece edge



1:05

Drill two openings with the drill jig
Use the drill jig for all angles from 22.5 – 180°

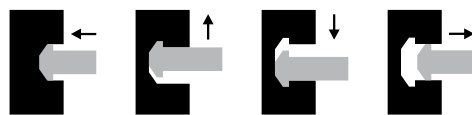


P-System groove function

The Vertical Mechanical Drive (VMD) is the core of the Zeta P2.

During the machining process the blade cuts a straight groove with a preset depth. Then follows an automatic movement up and down of the blade, creating the P-System groove.

This P-System groove function is low-wear, automatic and reliable.



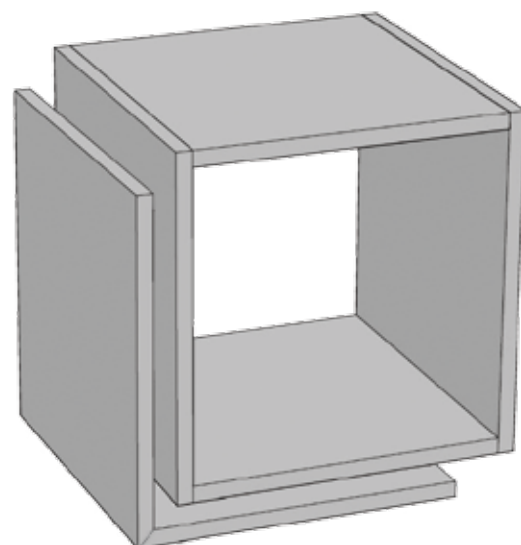
P-System depth adjuster

Rotating depth adjuster for the 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

Possibility to switch off the P-System function

Insert a 4mm groove cutter into the Zeta P2 to use the joining elements of the Lamello system as well as further applications as cutting panel grooves and expansion gaps



1:35

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

1:45

Close with an allen key – Finished!

Fast, easy and precise

Work with the well-known Lamello working principle

Lateral tolerance in the connector

- Allows for easy positioning of the machine on the workpiece edge or to the pencil mark
- No side stops or positioning aids necessary

Same processing on both workpieces

- No depth adjusting saves times and lower risk of errors

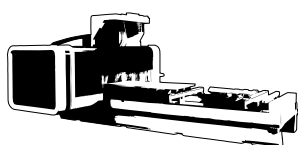
Fast connector installation saves time

- Innovative P-System groove method saves time and eliminates the need for fastening material like screws or glue



Synergies with CNC manufacturing

- Cuts the same P-System groove as the CNC machine, so both production methods can be combined ideally
- Great for individual furniture and prototypes
- Use the Zeta together with CNC manufacturing for small workpieces or on site



Technical data

Power	1050W
Version.....	230V
Speed	9'000 min ⁻¹
Cutter.....	P-System cutter 100.4 x 7 x 22 mm
Teeth.....	Z3
Cutting depth max	20 mm
Weight.....	3.7 kg

Kit contains



Machine with:
 P-System cutter 7 mm,
 Stop square, Suction stub 23 mm,
 Suction stub 36 mm, Spacer 4 mm,
 Spacer 2 mm, Tools, **P-System drill jig incl. drill for Clamex P-10, P-14, P-15**

Zeta P2-Set with

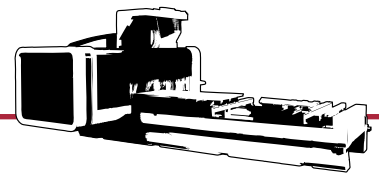
Art.No.	
Carbide tipped P-System cutter	101402
Diamond tipped P-System cutter	101402D

Accessories

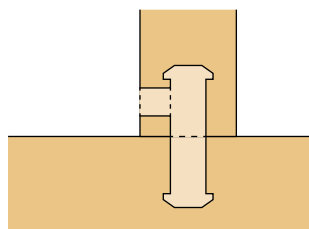
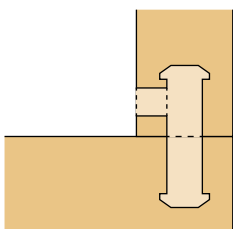
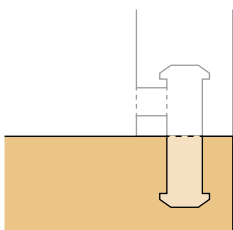
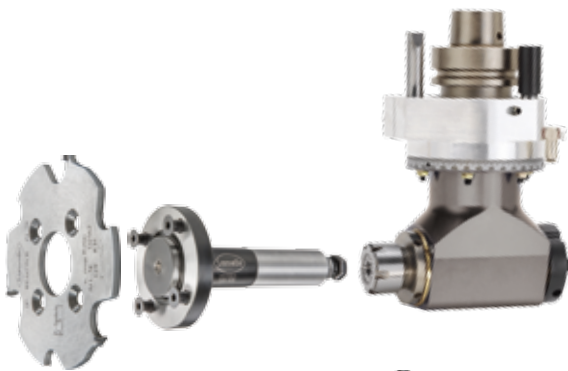
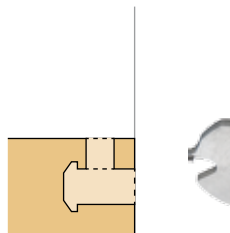
Art.No.	
Diamond tipped P-System cutter 100 x 7 x 22 mm	132140
Carbide tipped P-System cutter 100 x 7 x 22 mm	132141
Standard groove cutter 100 x 4 x 22 mm.....	132000
Spacer 5 mm.....	253027

Guaranteed supply: 10 years for spare parts and accessories

CNC machines



Necessary setup for P-System grooves



1. CNC machine

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

2. CNC software

– Software / macro / component from the manufacturer
or
– Program the macro / component yourself

3. Suitable angle aggregate

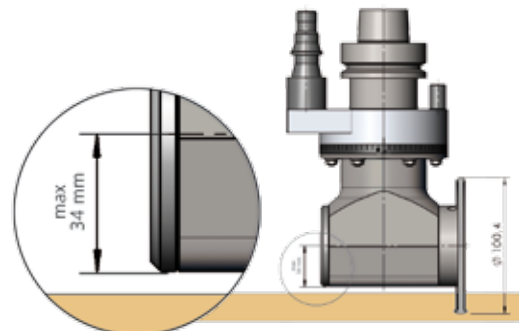
– Aggregate sub program

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

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

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

4. P-System cutting tool





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



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



* P-System CNC cutter arbors 30 / DTK 48 mm	Art.No.
Shaft Ø 20 x 50, L = 102 mm	132150
Shaft Ø 25 x 60, L = 102 mm	132151
Shaft Ø 16 x 50, L = 85 mm	132152
Shaft Ø 16 x 55, L = 68 mm	132153
Shaft Ø 16 x 50, L = 85 mm, with clamping surface (2°- angle)	132154
E.g. for aggregate for door locks	
Shaft Ø 20 x 50, L = 85 mm, with clamping surface (2°- angle)	132155
E.g. for aggregate for door locks	



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



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



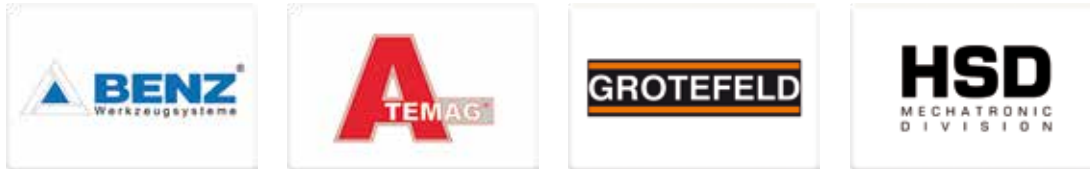
Positioning clip for Zeta P	Art.No.
Ø 6 mm.....	251067
For positioning in the Clamex access hole (5mm)	

The efficient operation of the P-System is assisted by these partner companies:

Partners for **CNC-technology**



Partners for **aggregates**



Partners for **software**



Partners for **tooling**



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