



Tenso P

Self-clamping connectors for gluing

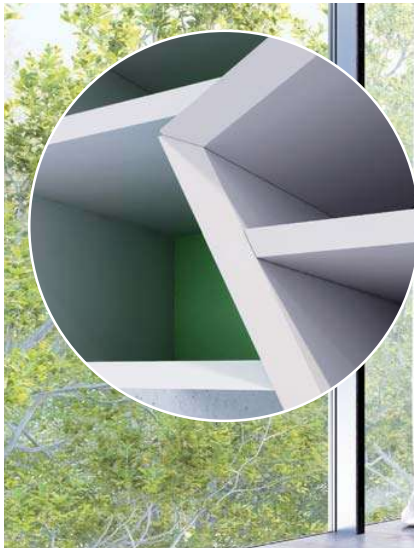


P-system configurator on our website

Tenso P, advantages and properties

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

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

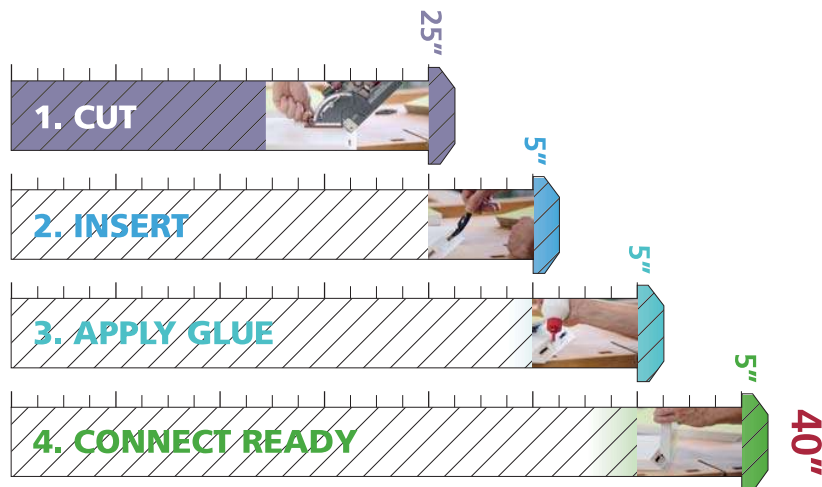


Tenso P is a self-clamping connector with **three functions: alignment, clamping and connecting**

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

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

Tenso P glued in **40"**





Use without preload clip

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



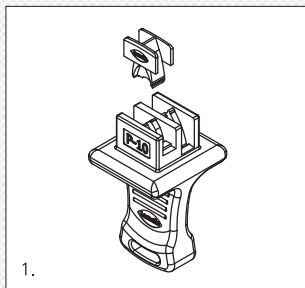
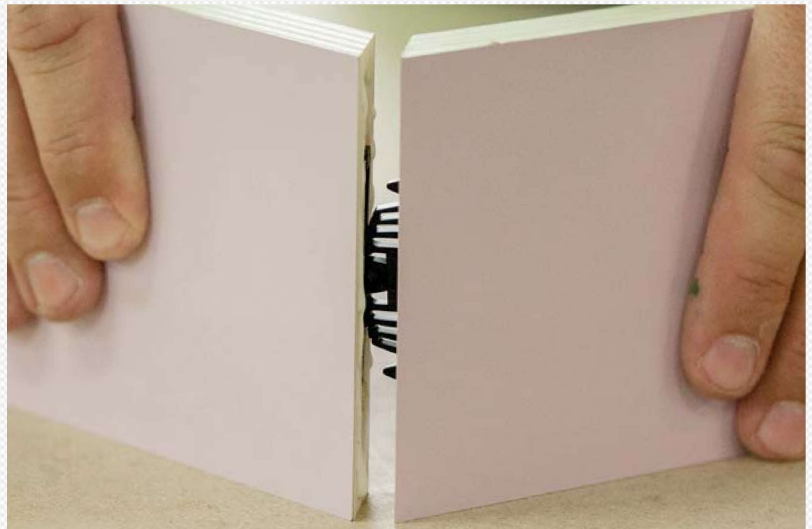
Use with preload clip



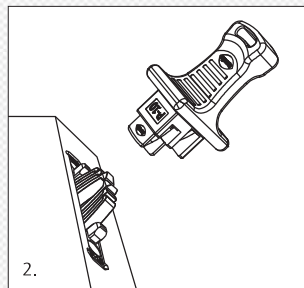
The Tenso with preload clip is ideal for larger elements where several connectors are connected simultaneously as well as for mitres.

Advantages with the preload clip:

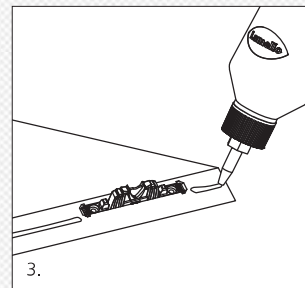
- Greater sliding tolerance during assembly
- Less effort during connection
- Effortless connection with several connectors



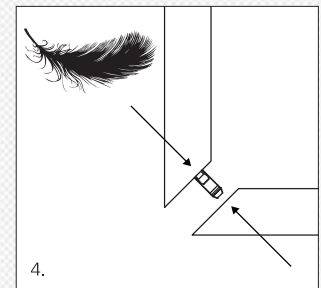
1. Place preload clip on the insertion tool



2. Preload the Tenso P-14



3. Apply glue



4. Join workpieces



Note:



Dry assembly is possible with Bisco P



Additional adhesive in the connector increases the tensile strength by 30%



The adhesive must be suitable for the workpieces and their specific applications

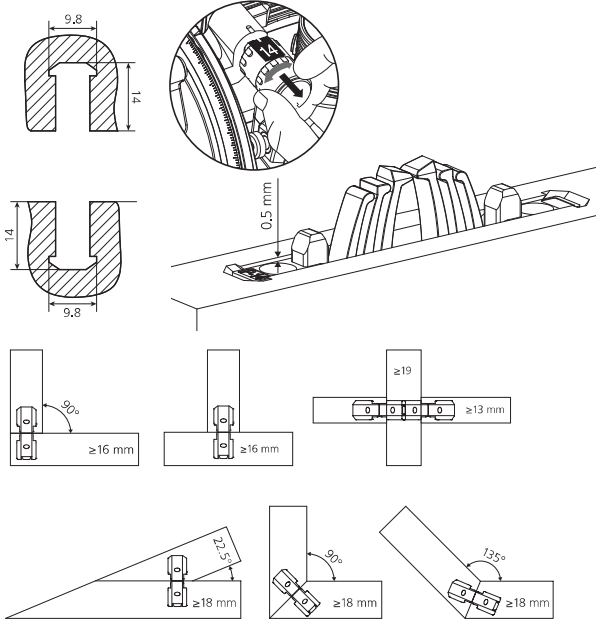
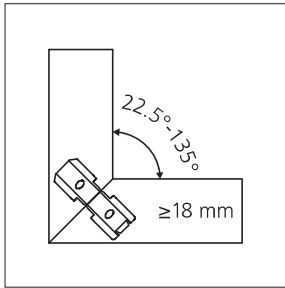


Tenso P-14

Faster gluing at all angles

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

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



Technical data

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

Clamping force (N)

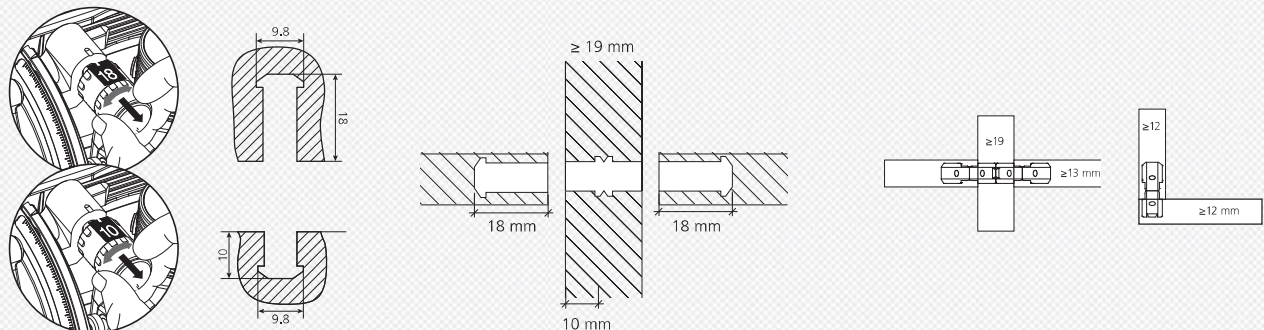
per connector ~ 150 or 30 lb
 The tensile or shear strength depends on the adhesive

Tenso P-14	Part no.
Box of 80 pairs (without preload clip)	145415
Box of 300 pairs (without preload clip)	145425
Box of 1000 pairs (without preload clip)	145435
Starter-Set – box of 80 pairs (with preload clip)	145415S
Starter-Set – box of 300 pairs (with preload clip)	145425S
Preload clip – box of 300 pieces	145426
Preload clip – box of 1000 pieces	145436

Important:

The aligning element Bisco P-14 is ideal to Accessories starting
 dry-assemble the joints before gluing page 98

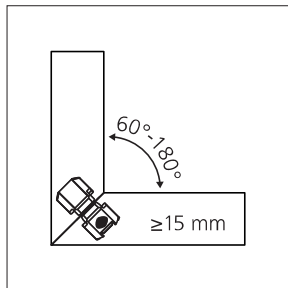
Offset installation with Tenso P-14





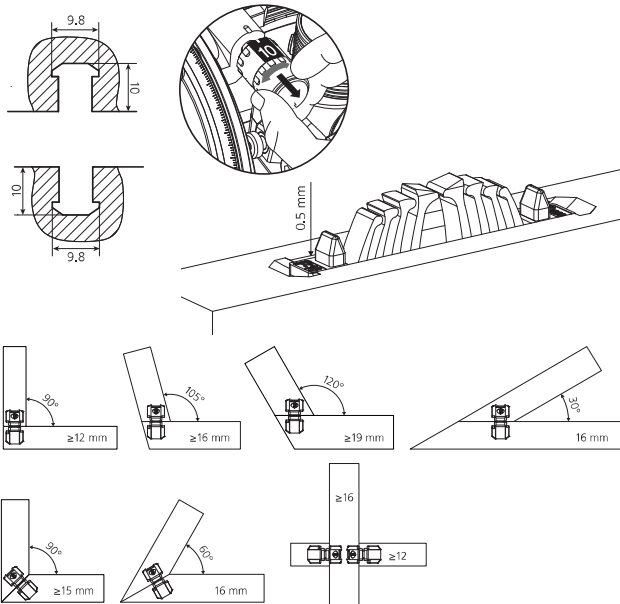
Tenso P-10

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



The Tenso P-10 is a self-clamping connector with a cutting depth of 10 mm for:

- 45° mitres from a panel thickness of 15 mm
- 90° connections from a panel thickness of 12 mm
- Centre panel connections from a panel thickness of 16 mm



Technical data

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

Clamping force (N)

per connector ~ 100 or 20 lb
 The tensile or shear strength depends on the adhesive

Tenso P-10

Part no.

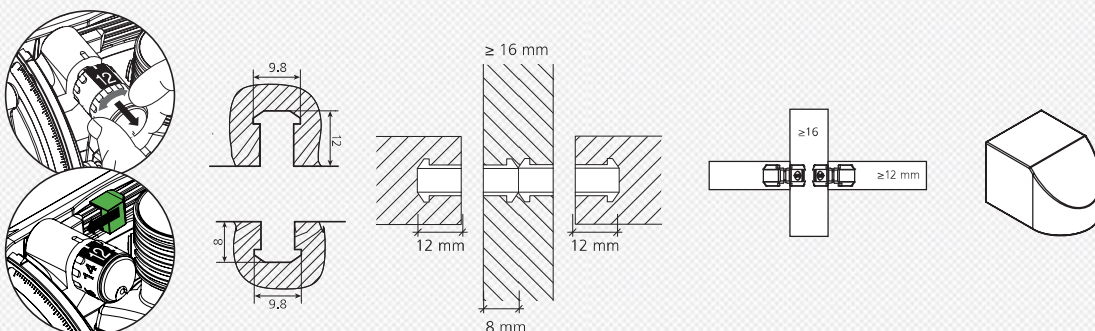
Box of 80 pairs (with preload clip)	145418
Box of 300 pairs (with preload clip)	145428
Box of 1000 pairs (with preload clip)	145438

Important:

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

Accessories starting page 98

Offset installation with Tenso P-10



Part no. 145439
 P-System 4 mm depth adjuster attachment for P-8



Tenso P – Applications

Furniture manufacturing / Interiors











Your advantages with Tenso P

Fast gluing process

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

Clamps the joint from the inside

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

- | | |
|--|---|
| <input checked="" type="checkbox"/>  Gluing | <input checked="" type="checkbox"/>  Fast installation |
| <input checked="" type="checkbox"/>  Invisible | <input checked="" type="checkbox"/>  Strong |
| <input checked="" type="checkbox"/>  High clamping force | <input checked="" type="checkbox"/>  Lateral tolerance |
| <input checked="" type="checkbox"/>  Versatile | <input checked="" type="checkbox"/>  Shallow cutting |
| <input checked="" type="checkbox"/>  Lower assembly force | <input checked="" type="checkbox"/>  No twisting |

Applications

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

Production process

1. Cutting the groove with Zeta P2

- Quick, easy and precise work with the well-known Lamello system
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2. Temporary storage

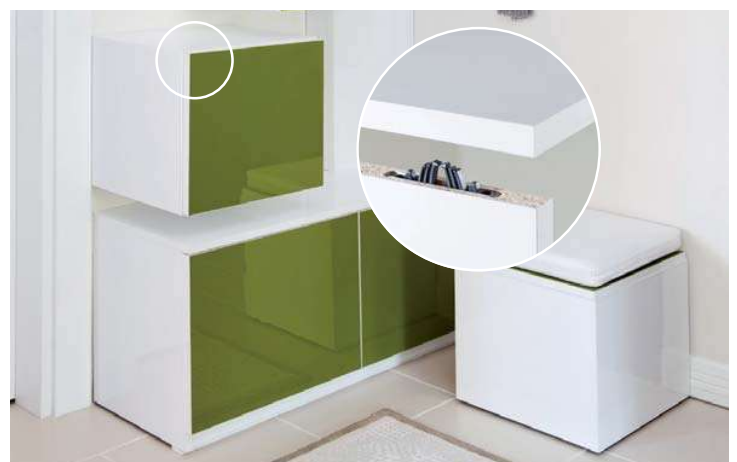
- Small volume due to stackability with pre-installed connectors
- Remove connectors without tools for the surface treatment

3. Assembly in the factory

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

4. Delivery: product already assembled

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





Store fixtures

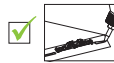


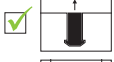






Your advantages with Tenso P

Stackable with pre-installed connectors

– Advantages in packaging, transport and logistics

Short assembly time on-site

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

- | | |
|--|---|
|  Gluing |  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 | wall panels | cladding | face frames etc.

Production process

1. Cutting the groove with CNC

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

2. Temporary storage

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

3. Delivery: product in parts

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

4. Assembly on site

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



Best of the best

2013