



Click Furniture Technology

Assembly in seconds, without any tools

Furniture can now be assembled in seconds without using any tools, screws, fasteners or other loose parts. Just click them together for perfect, stable results every single time. Just as easily, they can later be dismantled when needed. With Threespine™ click furniture technology and our technical support, we provide a solution that enables our licensees to introduce a new generation of furniture on the market.



No more tools.



Furniture that can be dismantled over and over again.



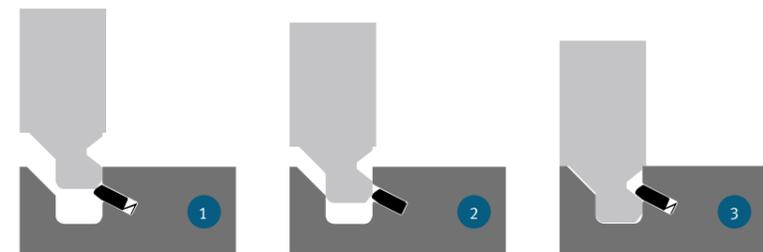
Perfect angles and very stable furniture.

We can now deliver flat packages directly to the final customer. So we save money on fewer deliveries and we spare the environment.

Martin Johansson, CEO - Totebo AB

How it works

The key feature of Threespine™ is the flexible plastic tongue that automatically locks boards or panels when pushed together. When a panel is pushed into position (1), the tongue is forced into the tongue groove (2). As the panel reaches its final position, the locking tongue snaps out into a wedge groove and locks the panels (3). The tongue strength in combination with the long connection surface achieves an extremely stable locking that in turn makes the furniture very robust.



Perfect results every time

All assembly elements are implemented in the furniture panels during production. This way we make it easier for everyone to assemble furniture with best results. By simply pushing the panels together, the furniture will be perfectly stable and square every single time.

BENEFITS

- Fast and simple assembly
- No tools & other loose parts
- Possible to dismantle
- Perfect stability and squareness

Our delivery will be more flexible. We will now be able to assemble the furniture either in our factory or directly on site.

Per Gunnarsson, CEO - Direktlaminat AB

Proven technology

Threespine is based on our 5G® mechanical locking system. This system is regarded as a world standard in locking and has been used worldwide in the production of more than one billion m² of flooring.

Scan to see
assembly in action



Threespine™ plays a decisive role in our TA'OR BOX product.

Peter Van Hoecke, CEO – Van Hoecke nv.

New design possibilities

Up until now, excluding visible holes for fasteners, screws or plugs has required permanent fixing methods such as gluing. With Threespine™ technology it is now possible to implement a clean design in furniture that can be assembled and dismantled countless times.

As the locking function resides in the flexible plastic tongue, Threespine is suitable for all materials that can be machined to a profile, such as particle board, HDF, MDF, CDF, plywood, solid wood, plastic, WPC, HPL and more. Moreover, it is now possible to combine these materials in ways not possible before.

In contrast to traditional fixing methods that result in point loads, the load is spread along the entire connection surface with Threespine technology. As a result, the strength of the joint is less dependent on the material dimensions and properties. This opens up completely new design opportunities, for instance, to use very thin furniture panels.

BENEFITS

- Design without visible holes
- Use/combine a wide range of materials



TA'OR BOX from Van Hoecke. Courtesy of Van Hoecke, Belgium.

Everything from wood to HPL. With Threespine™ technology there are virtually no limitations to material selection.

Profile examples



- Corner profile**
- Optimized for corner connection
 - Suitable as shelf profile



- Miter-joint profile**
- 45 degrees locking profile



- Back piece profile**
- Ensures stability and squareness
 - Possible to dismantle by angling



- Drawer profile**
- Designed & optimized for drawers

We selected Threespine™ as it offers optimum and absolutely reliable quality that lives up to our expectations and those of our customers.

Frieder Löhner, Marketing Director - Paschen GmbH

Get ready for production

Start-up time is an important factor when implementing a new technology. One major benefit with Threespine™ is the possibility to quickly move into production thanks to the technology's compatibility with existing machinery such as:

- CNC machines
- Double-sided edge-banding machines
- Double-end tenoners (DET)
- Profiling machines

For placing the plastic tongues, we provide solutions for both high- and low-volume production. Implement our high-speed inserter directly into your production line or choose the offline inserter for flexible production of smaller series. Our experienced team of engineers and technicians provides installation support and training to ensure a swift and smooth production transition.

Scan to see production process



Your partner all the way

Our success is directly related to the success of our licensees. By providing technology that improves your competitiveness, we strive to help you to gain new market shares and ultimately become more profitable. With a wide range of services from prototyping and testing to production, we offer valuable support all the way to ensure optimized solutions and short time-to-market.

START-UP

- Initial suggestion based on product, material & machinery
- Introduction to business network

TESTING AND OPTIMIZING

- Prototyping & profile design optimization
- Testing and verification

PRE-PRODUCTION

- Profile and tool drawings
- Consultation with toolmakers

PRODUCTION

- Operator and QC training
- Customer sample evaluation
- Tongue supply
- Technical support



A selection of our >180 licensees



Scan for a complete list of our licensees



INNOVATING EVERYDAY

Innovation has been at the heart and soul of our business since the company was founded in 1993. Our progress is built on always challenging today's technological solutions with new ways of thinking. That's how we revolutionized the way people install and use floors. That's also the way we introduced a groundbreaking method to assemble furniture without any tools.

Today, our licensees can be found all over the world. All our development activities take place at our R&D center in Viken, Sweden. From here we develop new concepts and provide pilot manufacturing, testing and technical support.

Each day, we make sure our licensees get access to the latest flooring, furniture and surface technologies used in people's everyday lives.



Välinge Innovation AB
Prästavägen 513, 263 65 Viken, Sweden
Phone: +46 (0)42 23 78 15
Email: furniture@valinge.se

www.valinge.se/furniture