

The new joining system with profile

The Swiss company Lamello set a new benchmark with its profile groove system, a new innovative joining method between work piece and fitting. The worldwide patent for the so-called "P-System" is pending and is close to its granting.

Lamello is a leading producer of precision joining systems in Bubendorf (Switzerland). The exceptional novelty value of the new joining system consists of the form locking anchoring which works completely without glue or screws.

The T-groove is cut into the work piece with a CNC machine set up with a disc cutter or with the new biscuit joiner "Zeta" which will be available from autumn 2010. The fitting is then slid into this groove. The great advantage is the simplicity of installing the fittings, which happens without tool just by hand and within seconds.

Furniture connector

"Clamex P" is the detachable connector based on the "P-System". It consists of two halves, which are joined together. The rotating lever opens and closes the joint and clamps both work pieces together. The tiny hole of 6 mm is unique and serves to move the lever with a hexagonal key. Now detachable furniture can live up to the high aesthetic requirements of modern design since with "Clamex P" there is no need for large cover caps or visible fittings. Creative applications with mitres from 30° to 180° are also possible due to the small installation depth of "Clamex P".

The connector provides interior architects, designers and producers of furniture with new freedom in designing and the possibility for differentiation.

Easy assembly

The connector is simply slid into the profile groove by hand. This easy tool-less assembly allows for new concepts in manufacturing, logistics and assembly.

E.g. the work pieces can be stacked and transported gently which shortens the time on site considerably. Even non-craftspeople can assemble furniture made



with "Clamex P" correctly and easily – in no time and only with a hexagonal key.

Biscuit joiner

By creating the new biscuit joiner "Zeta Lamello" made this ingenious profile groove technology accessible to everyone. The result is the first handheld tool with a profile groove function. The heart of the machine is a new and compact vertical mechanical drive (VMD) which works according to the following principle:

During the cutting process the cutter dives to the maximum depth. Then follows a minimal movement up and down to create the profile groove. Finally the cutter moves back to the center position.

This mechanical drive is characterized by a reliable mechanical and

low-wear technology and is very user friendly. The profile cut is released automatically at the correct moment.

The "Zeta" is operated like any biscuit joiner and is designed according to Lamello's motto: fast, simple and precise. The use of the machine is very versatile and it is also possible to simply switch a lever to use it as a standard biscuit joiner.

Investment pays off twice

Looking at the cost, which incurs in a company it is obvious that the lion's share is used for personnel. This means that an investment with which saving time daily is possible will pay itself off within a very short time. Additionally the "P-system" renders the unique possibility to differentiate oneself

The "P-System" by Lamello is the new joining technology for furniture manufacturing, that set a new benchmark.

Photo: Lamello

from the competition and to offer new innovative solutions.

To optimally serve clients with CNC machines and a series production Lamello is establishing a network of partner companies e.g. the company Homag. This way customers can upgrade their CNC machines with a simple macro program allowing them to cut the profile groove for the "P-system" without additional programming. The matching cutting tools for the profile groove as well as for the "Clamex P" connector are available from Lamello and from specialized trade shops.