



Perfect unity of edgeband and board completely seamless and without conventional hot melt adhesive coating.



In cooperation with Homag, the Fusion-Edge was extensively tested and optimised up to series production stage, using the laser welding procedure.



TECHNOLOGY
AWARD 2008
Döllken-Fusion-Edge:
WINNER OF THE
M TECHNOLOGY
AWARD 2008



DESIGNPREIS
2009
Döllken-Fusion-Edge:
NOMINATED
DESIGNPREIS
BRD 2009

FUSION-EDGE: *Invisible joint now a reality*

The Fusion-Edge developed by Döllken for processing without glue or joints by means of laser application is almost ready for series production. The appearance of joints, which are an eyesore especially in high-gloss boards, will therefore soon be a thing of the past. This trail-blazing Döllken innovation has already been awarded the M Technology Award 2008 and is also nominated for the BRD Design Prize 2009.

It is revolutionary, considering the process uses no conventional hotmelt adhesive, but laser welding to create a seamless transition between edge and board. The Fusion-Edge consists of a top ABS, PP or 3D base layer (which corresponds to a conventional edge) and a very thin functional special polymer layer colour-matched to the base layer.

Cooperation with machine manufacturers

In close cooperation with machine manufacturer HOMAG, the Fusion-Edge was extensively tested over many months and optimised to be ready for the market. Döllken will present this further developed version at Interzum.

Thereafter, our project partner Homag will for the first time present a continuous machine for laser welding with the Fusion-Edge on the Ligna show. The conventional gluing assembly of the edgebander is replaced by a powerful laser. The laser welds the functional layer of the edgeband to the board to create a seamless joint - without any additional hot-melt adhesive.

The special thing about the new edgeband generation is therefore that it is edge and adhesive rolled into one. This does away with any matching of edge, adhesive type and board. This again translates to increased production assurance and productivity together with better visual quality.