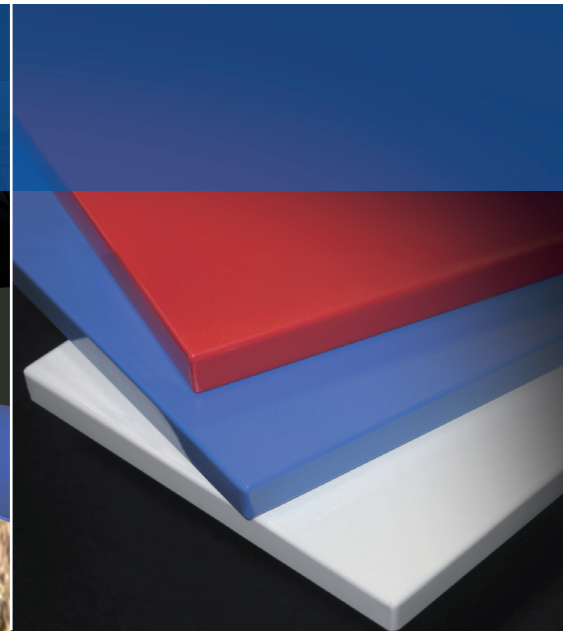
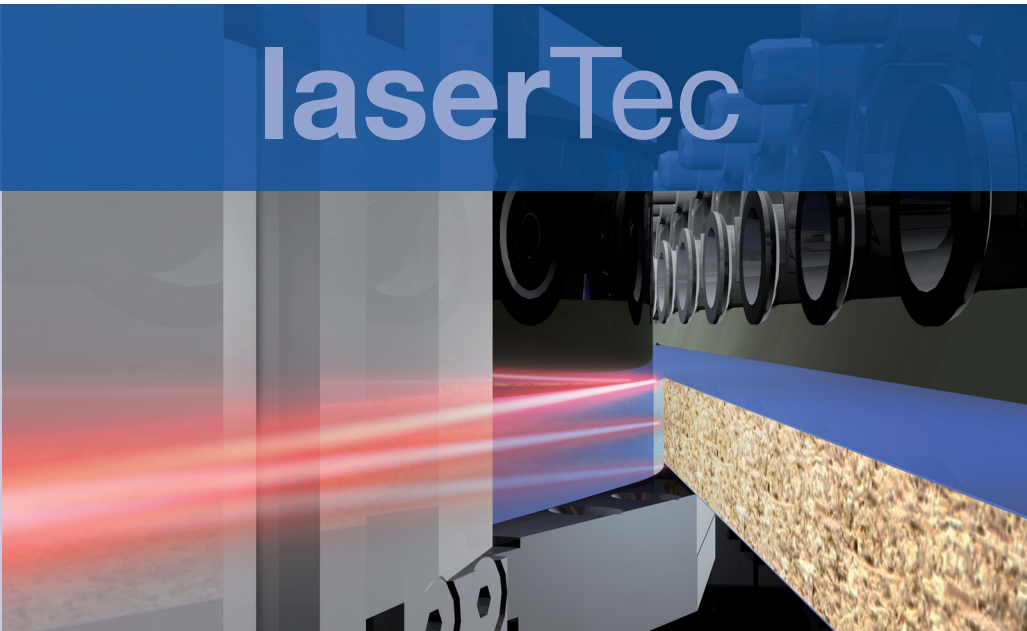


A New Age in Edge Processing

laserTec



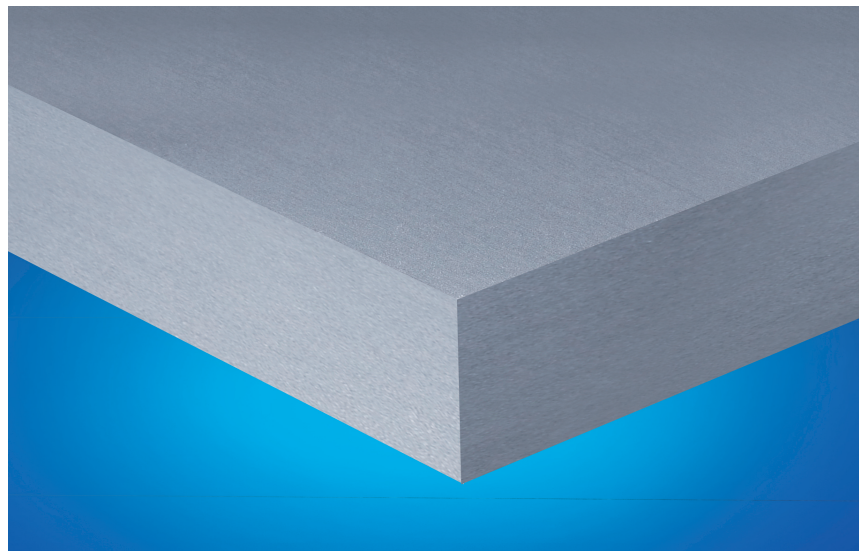
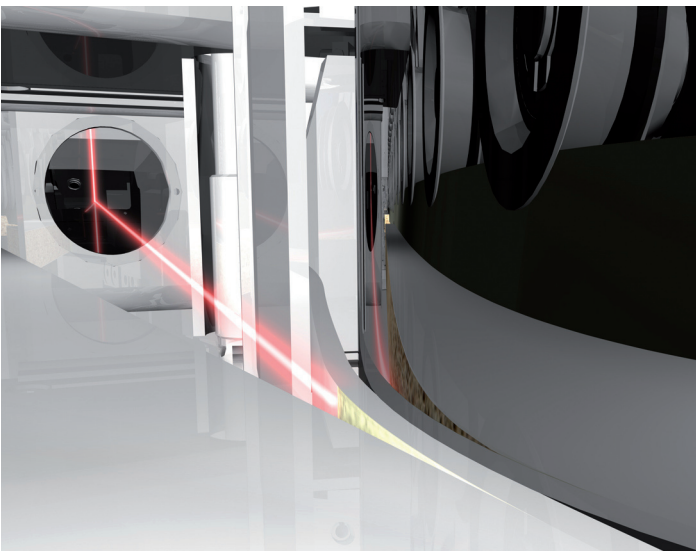
HOMAG laserTec – A Quantum Leap for Your Furnit

Edge gluing quality that has never been seen before –
HOMAG laserTec is the new production technique set
to revolutionize the furniture manufacturing industry.
This technique uses a laser beam to melt the surface

Future Manufacturing Needs

03

to be glued, which is then pressed directly onto the workpiece. The result: edges of the very highest quality.



**High economic efficiency thanks to
HOMAG laserTec:**

- Scrap rate reduced
- Simple operating processes
- Lower additional costs
- Highest level of availability

laserTec



Increase the quality and productivity of your furniture manufacturing business with HOMAG laserTec. You won't find a more efficient and cost-effective way of using resources.

Revolutionary Technology

In comparison to conventional gluing procedures, HOMAG laserTec is a clear winner. While glue granulates normally had to be melted at a relatively high temperature before being applied to a workpiece as a liquid glue with a rotating gluing roller; laserTec on the other hand simplifies processing enormously. With laserTec, the surface that needs to be glued is melted with a laser beam and then pressed directly onto the workpiece. The laser beam is automatically directed over the entire width of the edge belt by an oscillating spindle.

Highest Processing Quality

With HOMAG laserTec, all free edges can be processed and an invisible transition (invisible joint) can be achieved during production. Consistently high processing quality considerably reduces the scrap rate, thereby ensuring that optimum series-production can be achieved. By using this technology, you can put yourself well ahead of your competitors in terms of quality. In

addition, operating the new diode laser is hugely cost-effective, particularly in comparison to other laser systems.

Increased Productivity

Immediate production readiness and simple operation allow you to produce more parts in the same time while unproductive waiting times and setup times for color changes are a thing of the past. Separate settings for glue quantities and temperature are no longer required, nor are entries for different materials (e.g. chipboard and MDF) and all of the associated risks of incorrect gluing. By using laser joins you can achieve consistent production quality and reduce staff costs associated with post-processing and finishing. All good reasons for why investing in this machine is guaranteed to benefit your business.

With HOMAG laserTec you can process corner and edge effects that have never been achieved before and can at the same time benefit from flexibility when selecting materials and colors.

For the Entire Laser Edge Range

With HOMAG laserTec, you can process all standard edge types including PVC, ABS, PP, PMMA, wood veneer and melamine. The laser-activated layer can be adapted to suit the requirements of each individual product and customer. Higher heat and moisture resistance levels can be achieved than with conventional gluing procedures.

The Perfect Result

HOMAG laserTec stands for first class gluing results. Achieve invisible transitions and thanks to optimum gluing techniques the adhesion of the edge to the workpiece is considerably higher than with traditional techniques.

The free-flowing polymer infiltrates the structure of the carrier plate and hardens, resulting in mechanical anchoring (adhesion) between the two materials.

User-Friendly Application

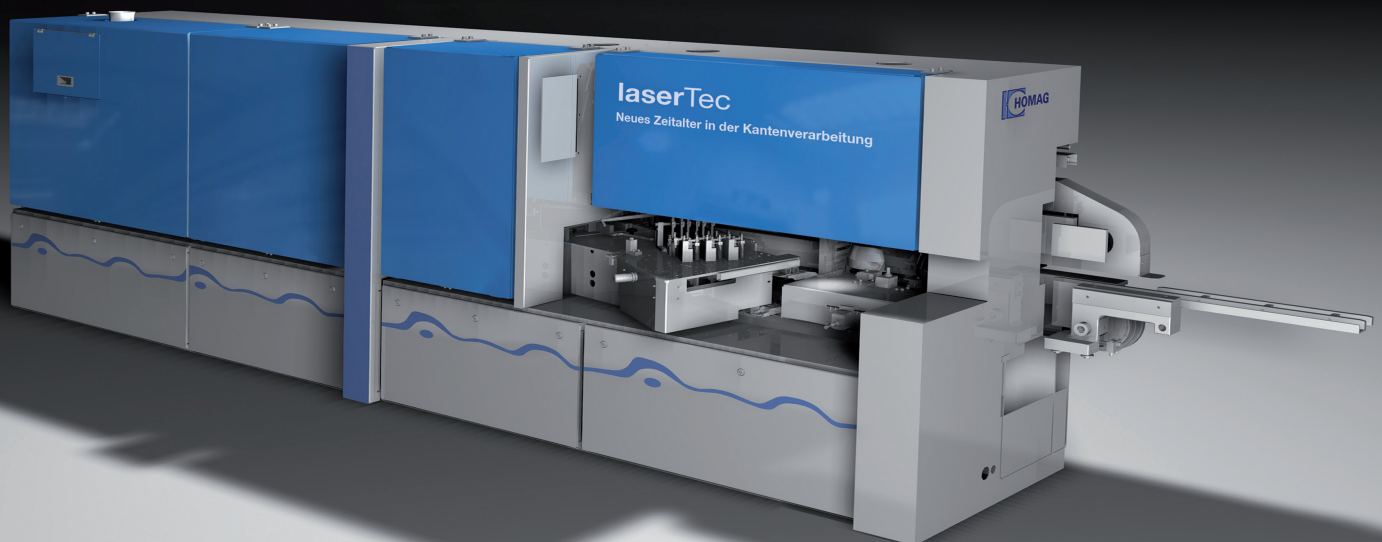
HOMAG laserTec offers a functionally reliable technique that guarantees high process security. The only thing you need to do is enter or scan the edge type. No time-consuming maintenance tasks are required for operation and contamination of the workpiece and downstream operating units and tools is considerably lower than with traditional techniques. You won't find a better guarantee for further savings and rationalization potential while still improving quality.

**Perfect Appearances Thanks to
HOMAG laserTec:**

- Quality like never before
- Homogenous workpiece appearance

07

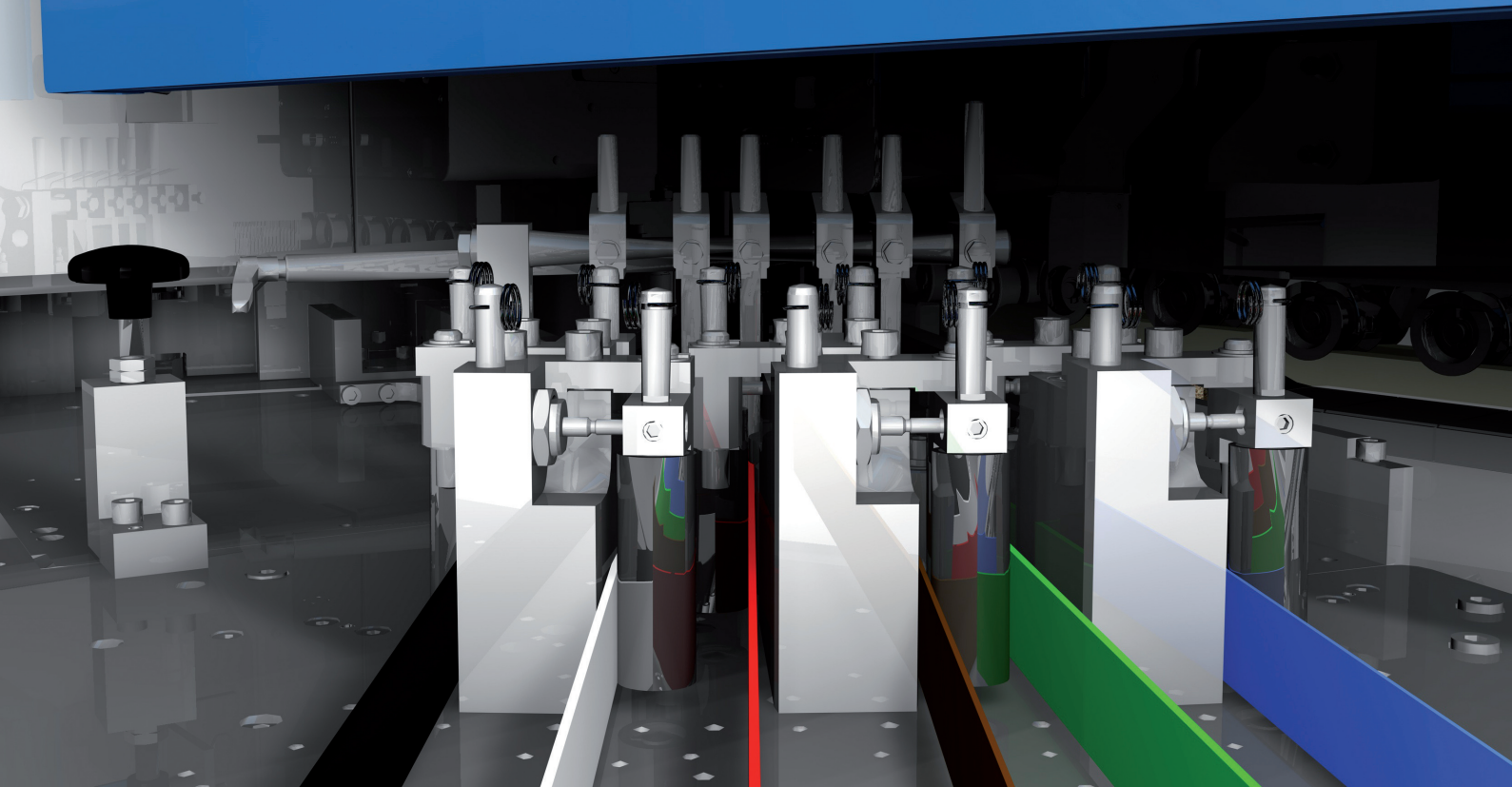
laserTec



**Efficient Production Thanks to
HOMAG laserTec:**

- No logistical cost for glues
- No complicated manual entries
- No auxiliary materials such as separating and cleaning agents
- No waiting times and setup costs for color changes
- No energy consumption without productive results
- No contamination and cleaning problems

laserTec



With HOMAG laserTec you can achieve first class gluing results while benefitting from simple operating processes and lower additional system costs.

Reduced Use of Resources

In addition to quality gains and technical advantages, HOMAG laserTec helps you to use fewer resources. Expensive PU glues are not required and the logistics associated with them are superfluous. The cost of auxiliary materials such as separating and cleaning agents is also reduced. Secured process parameters result in a lower scrap rate so that material use is also reduced in this area.

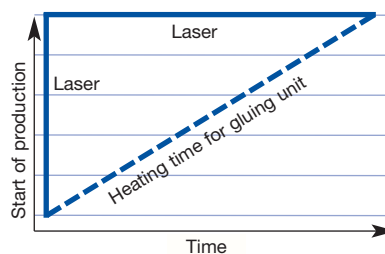
Energy Saving Effects

First of all, HOMAG laserTec saves space as laserTec is integrated within the machine system in the same way as all the other units. laserTec is also far superior to other glue-related procedures — as the heating time is no longer required, no energy is used without being productive. In comparison to CO₂ laser procedures, this technique convinces with its lower kW connection capacity and the removal of the once necessary buffer gas.

Environmental and Work Protection

Glue-free production is particularly environmentally-friendly as glue fumes are avoided and hot-melt glue is not burnt in the machine. Production and operating staff are not exposed to harmful substances and the need to remove incrustated glue residue with chemical agents is a thing of the past. The laserTec procedure from HOMAG has a protection standard of 1 and can therefore be used without hesitation in all types of furniture production.

Production Readiness – Heating Time from Production Start to Finish



HOMAG laserTec – The New Age

The demand for quality in the furniture manufacturing industry is constantly increasing and the need for the efficient use of resources during production require new concepts for edge gluing techniques. Laser joining technology from HOMAG is the next generation

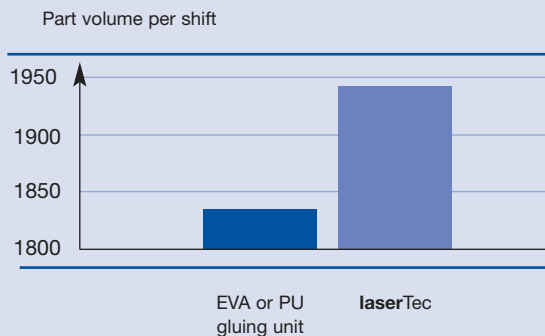
HOMAG Group has applied for patents and trademark rights for its laser joining technology.

in Edge Processing

for definitive, high-quality narrow surface closures.

HOMAG laserTec makes your production more successful.

**Part volume per shift, at
8h working time, feed speed
30 m/min, 600 mm part length**





A member of the HOMAG Group



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