

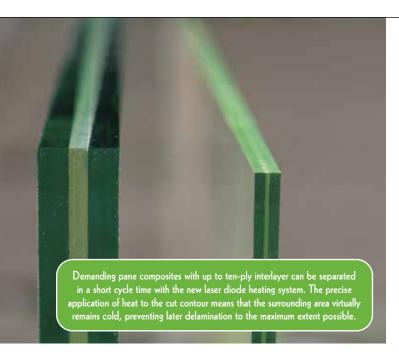
# HEGLA: Faster cutting, more information and perfect tempering

## ASER DIODE HEATING LINCREASES PRODUCTIVITY IN LSG CUTTING

HEGLA is showing the ProLam LSR, a newly developed cutting system for laminated safety glass equipped for the first time with the time-saving laser diode heating system as a machine in series production. "Productivity in LSG cutting can be increased by 20 per cent or more with the new heating process," said **HEGLA Managing Director** Bernhard Hötger, emphasising one of the advantages of the new technology. The laser applies the bundled heating energy precisely to the cutting contour, reaching the PVB interlayer's transformation temperature much more quickly than the usual heating tubes. The laser beam weakens only slightly as it passes through the interlayer, so that even demanding glass laminates of up to ten-ply interlayer can be separated with shorter processing times. The new process

The HEGLA Group's range of topics at Vitrum could scarcely be wider, but it is an example of just how diversely the glass industry has developed in recent years. On the one hand, the focus is on glass cutting, its automation and performance increase. Visitors gain insight into HEGLA's mechanical engineering. On the other hand, the opportunities of networking, digitalisation and integrated processes will also be showcased, making it clear how important these issues currently are from the Group's point of view.





also has a positive effect on edge quality: the interlayer remains cold outside the cutting area, thus preventing later delamination and enabling additional cuts without cooling times. The system reduces energy costs as well. "The laser diode strip has a divided design, automatically adjusts to the cutting length, and requires only a short boot-up time," Bernhard Hötger added.

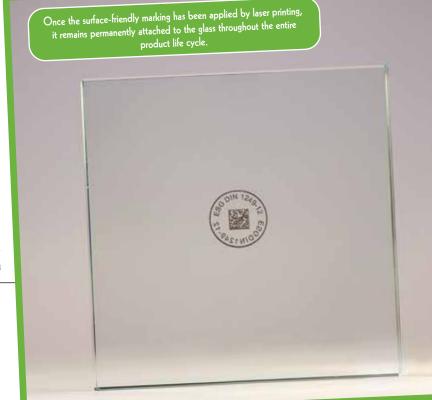
#### UNIQUE GLASS MARKING FOR DIGITAL ADDED VALUE

Individual glass marking, data capture and storage, and product tracking are the main focus at HEGLA boraident. In line with this, the mobile laser printing solution ESGuardM will be shown together with the UniColor laser printing process. Compared to CO2 laser marking, this technology leaves the surface completely undamaged. Once

the scratch-, smudge- and weather-resistant marking consisting of a logo, QR code or alphanumeric characters has been applied, it remains firmly attached to the glass. "Depending on the integration, the captured data on the product can be stored either in the ERP or another system. All it takes is one scan to retrieve the information, call up a fire pro-

tection certificate or reorder an identical product," explained Head of Development Dr Thomas Rainer. As a rule, laser marking is integrated into operations step by step with the aims of triggering production steps through automatic scanning, simplifying shipping processes or tracing process steps from production and shipping to the construction site. "With









Glass that's as perfect as it gets – HEGLA-TaiFin's claim regarding the performance of CTF furnaces could not be more passionate. This is why perfect flatness and optical quality are the hallmarks of these tempered panes. Simply glass or, better yet, a perfect pane: Equipped with full convection, the CTF furnace produces empered glass of the highest quality and leaves nothing to be desired, even in the demanding area of facades

marking and unique identification, it's also possible to fully digitise and track production," said Dr Rainer.

## REAL-TIME TRACKING FOR THE OPTIMISATION OF INTEGRATED PROCESSES

"Capturing processes in real time is also advantageous for higher-level software such as ERP, MES, waste optimisation and capacity planning," said Dr Jan Schäpers, Managing Director of HEGLA-HANIC, the software specialists. The large amount of data collected by scanning and sensor technology can be used

to analyse and optimise processes in depth. The display of information in a HEG-LA-HANIC Cockpit helps to improve the employees' overview and gives production managers an improved basis for decision-making. With appropriate integration into ERP and producplanning software, many of these interventions take place automatically. For example, the continuoptimisation system continuously adjusts the cutting plans or rearranges the sequence of units at the processing steps according to current demand.

For visitors who want to get a personal impression

of HEGLA-HANIC's solutions on site, the company will show demo views and test systems at Vitrum – systems featuring even better performance and usability on a new platform with inclusive updates.

### PERFECT FLATNESS AND GLASS QUALITY

Tempered glass in perfect optical quality and flatness is the passion of HEGLA-TaiFin, the HEGLA Group subsidiary that will also be represented at the joint stand. With the CTFe, the company offers a unique tempering furnace in which the thermal heat is transferred by air circulation from closed convec-

tion boxes. The glass surface is never exposed to the direct radiation of the radiant heaters, so that both coated and uncoated glass can be finished with the highest optical properties. "The Viprotron and LiteSentry scanners, for example, consistently confirm the premium quality of the tempered glass with isotropy values above 95 per cent," said Jarno Nieminen from HEGLA-TaiFin. While the CTFe is ideally suited for demanding facade glazing, the Finnish company is now introducing three new furnaces that have been specially designed to meet the requirements of insulating, interior or sanitary glass.

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With the HEGLA-HANIC Cockpit, performancerelevant information can be displayed and tracked. It gives employees more information and makes it easier for production managers to make decisions.