

LiSEC's automated solutions lauded by **FELBERMAYER FENSTER UND TÜREN**

Felbermayer Fenster und Türen was founded back in 1964 as a joinery. Then in 1993 Helmut Felbermayer took it over from his father. At the time only two employees worked

Thanks to the competence and industry-leading support of LiSEC, a recent project by FELBERMAYER FENSTER UND TÜREN now has the company producing insulating glass in-house - faithful as always to its proud tradition of combining window and door construction with innovative technology.





migrate from greenfield to insulating glass was originally planned for 2023-2024. However, thanks to an investment grant it was rescheduled and could be started at year-end 2020. Within a very short time, a new hall for insulating glass production had been built and intensive work had taken place on the layout planning: “Over a period of two months, plans were sent back and forth almost daily to identify the best possible solution - and I think we succeeded. Collaboration worked really well. It was a joint project that was also thoroughly enjoyable,” enthuses Felbermayer, visibly delighted with the project progress so far. “Top performance was delivered by everyone involved,” he continues. “The excavator

in the small company in Klosterneuburg. However, with the years Felbermayer gradually expanded to the 210 employees it has today - all working its the site in Unterwaltersdorf, Lower Austria, on the production of windows and doors, insulating glass manufacturing and powder coating. Here Felbermayer works jointly on installations with subcontractors.

to Salzburg and Vorarlberg with the supply of windows made of wood, wood-aluminium, plastic and plastic-aluminium. In 2021, Felbermayer generated sales totalling EUR 44.2 M - a handsome sum that’s projected to rise this year to EUR 50 M. Says Managing Director Helmut Felbermayer: “We’ve now devel-

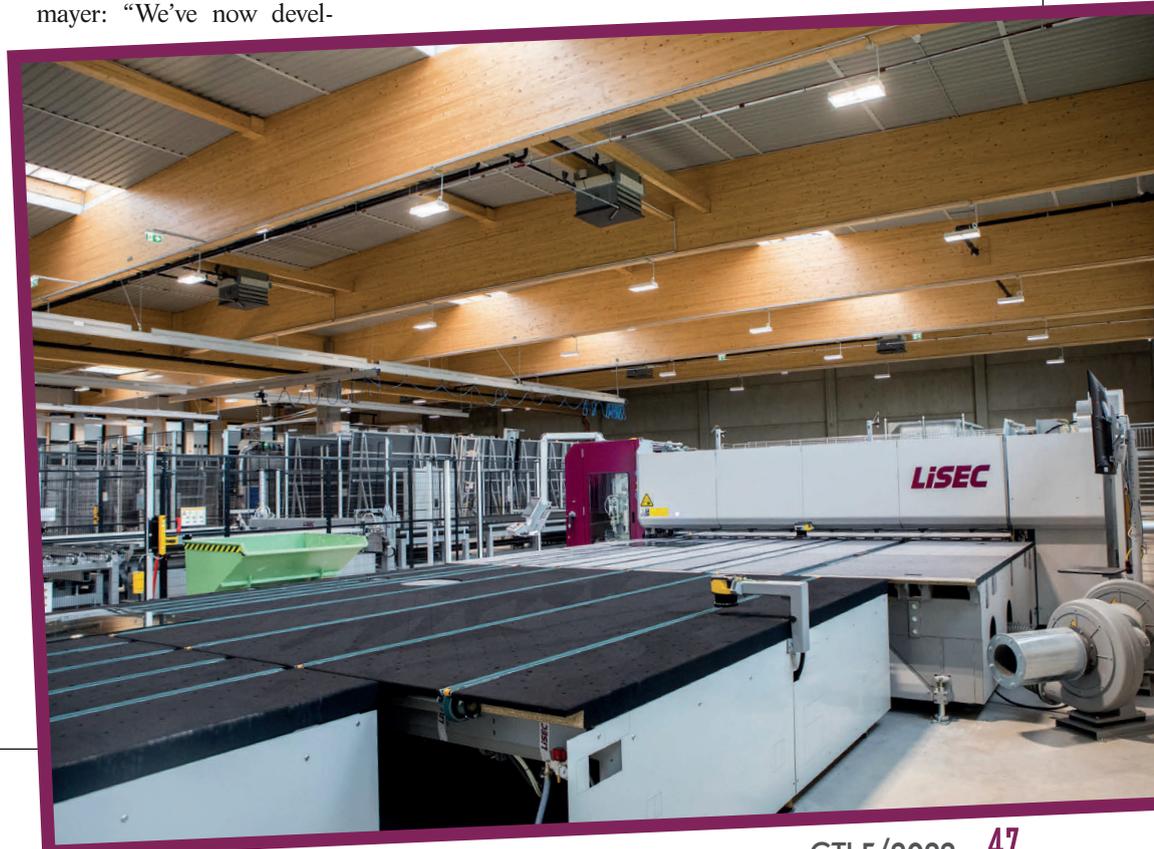
oped the window to render highly-automated finishing possible which, compared to the competition, marks our strength. Here we achieve elevated output with a very modest number of employees.”

HARNESSING INNOVATION

The production project to

TWO COMPANIES

A duo of identifying names comprise this remarkable outfit: namely Felbermayer Fenster & Türen Erzeugungs GmbH. Of these, the latter first produces the windows before selling them to Felbermayer Vertriebs GmbH which, in turn, takes care of installation. The company is primarily active in the contract market - covered from Vienna and Graz



arrived at the end of February-beginning of March 2021. In August, the hall was ready on schedule and installation of the machinery began. This continued in stages at full throttle, right up to the start of production. We had an outstanding team from LiSEC.” Felbermayer goes on to report that everything on the project worked - from machines to software, with no mistakes made: “We would do everything exactly the same again. Throughout my entire career, during which we have bought numerous machines and planned plants, I’ve never experienced such perfect implementation within such a tight time frame.” Here Felbermayer is the only contract window company that manufactures the insulating glass itself, which has Felbermayer confident to add that “thanks to the full automation, output and the actual costs, we enjoy massive advantages over the competition.”

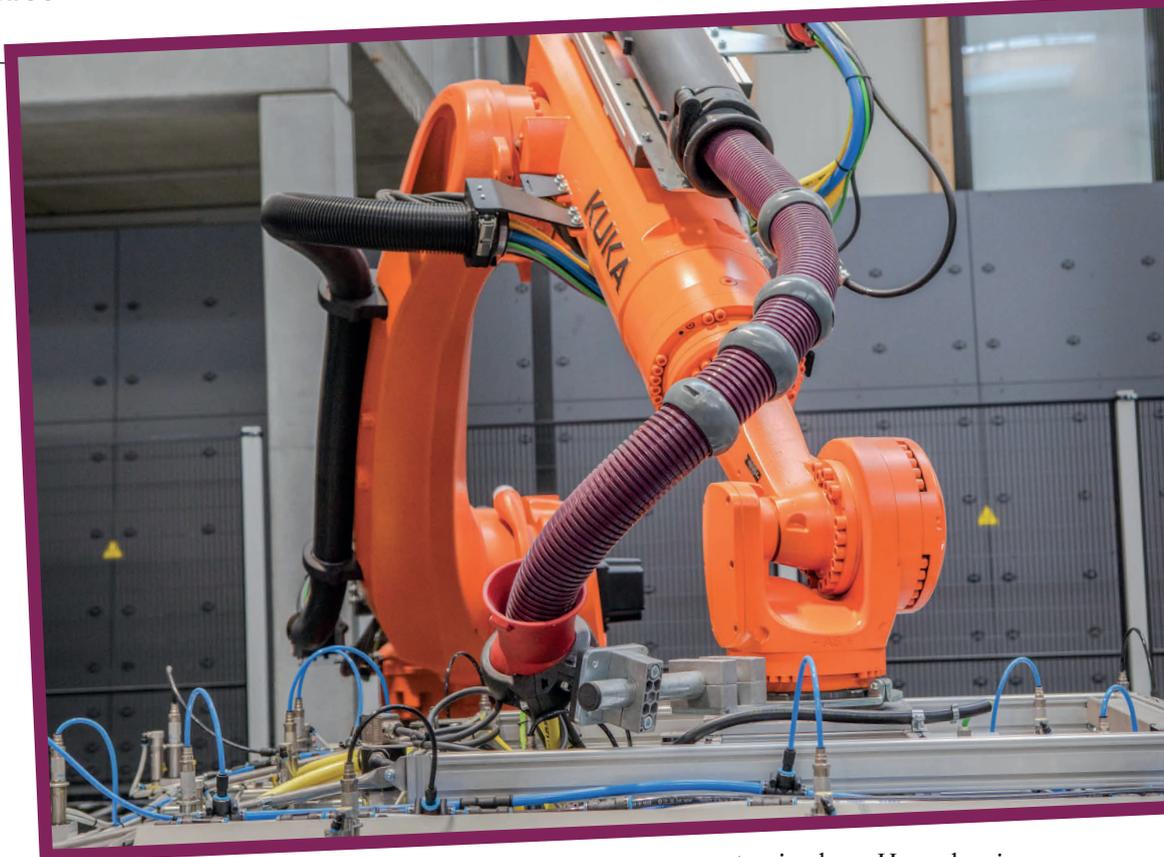
ALL SOLUTIONS FROM A SINGLE SOURCE

LiSEC’s solutions satisfy the expectations of Felbermayer, who’s always known the brand: “I’ve always had an eye on insulating glass production given that, at heart, we’re genuine machine freaks. That’s had us attending trade fairs for years, where we’ve consistently seen both LiSEC machines and those offered by competitors. What’s always been clear to us is that LiSEC

tops the list when it comes to machinery construction.” The software, too, is impressive. “Machines are one thing, but the software behind them makes a big difference too. This installation went without a hitch. We had nothing to worry about. Our LiSEC software contact worked together with my colleague Gerhard Czervenka to compile all the basic data and update the master data till the whole thing was up and running.” Felbermayer goes on to highlight the advantages of obtaining solutions from a single source: “With the project being highly complex in nature, it was hugely beneficial to work with LiSEC - because everything came from a single source. LiSEC is a machine manufacturer that can supply all the elements you need: machinery,

software and services - the lot. Thanks to its all-in-one solutions, all coordination takes place internally and you don’t really notice (or you only rarely do) the coordination and planning measures that are taking place in the background. Another huge advantage with LiSEC is that they make it all look so easy.” Felbermayer was also impressed with the elec-

tronic plans. Here planning had to be accurate down to the last centimetre, with all connections in the ground and laid before the concrete slab was cast. Felbermayer emphasises that, although other suppliers also offer good stand-alone machines, for him LiSEC truly shines when it comes to high-quality, fully-automatic machinery coupled with high-output processes.



ABOUT LiSEC

Headquartered in Seitenstetten/Amstetten, LiSEC is a globally-active group that has provided individual and comprehensive solutions in both flat glass processing and finishing for 60 years. Its service portfolio comprises machines, automation solutions and services. In 2021, the group, with circa 1.100 employees and over 20 sites, achieved an export ratio of more than 90 percent and generated sales of more than EUR 200 M. LiSEC develops and fabricates glass-cutting and sorting systems, single components and complete production lines for insulating glass and laminated glass fabrication, as well as glass edge processing machines and tempering machinery. With reliable technology and intelligent automation solutions, it sets both quality and engineering standards and significantly contributes to the success of its customers.

LiSEC MACHINES FLEET AT FELBERMAYER

But Felbermayer wasn't only impressed by the range of machines and software: "Machinery construction is evidently very carefully thought-out and I get the sense the development phase takes longer than that of the competition. Clearly it's apparent in the workmanship and components that everything is very coherent. Indeed the LiSEC design department does an excellent job."

As for the LiSEC machinery fleet at Felbermayer, it includes the following machines: PKL/SBL, ESL-RS, two VSL-A stations, KSR, GSL, VHW-F, ARL, TPA-A, AGP-A, VFL-1F as well as automatic tempering bed loading and unloading. The glass is loaded by the PKL/SBL glass gantry loading system. With its rotating double suction frame, the

system is able to stack large format sheets automatically and precisely. In addition to cutting flat glass using the LiSEC ESL-RS cutting table, Felbermayer has two LiSEC VSL-A cutting systems with Dynamic Load Balancing for cutting laminated glass. This is an intelligent form of dynamic utilisation control that can achieve a high output. The edges are seamed with the LiSEC KSR processing machine. Once the quality has been checked by the GSL quality scanner, the sheets are sorted into the ASM sorting magazine by the SHL glass transport shuttle. The system is able to pick up glass lites sheets vertically and horizontally, buffer and transfer the sheets, and transport them between the processing stations. The VHW-F is characterised by features including its flexible expandability, the contactless

spindle guide and the self-cleaning gap filter system in the washing zone area. The sheets are washed and dried in an energy-efficient manner and with optimum polishing quality. With the desiccant filling machine ARL-45F, spacer frames made from all common materials can be filled with desiccant, both as rectangular frames and as shapes. Filling at the back of the frame guarantees a stable process, even with delicate plastic materials. The optional measurement of the desiccant quantity can ensure that there is sufficient desiccant in the frame compared to other systems. The LiSEC TPA - a fully automatic system for applying thermoplastic spacers - enables maximum flexibility by seamlessly changing between the different dimensions of the glass. The stepless width adjustment allows switching between different spacer widths without the requirement for a waiting time. The high-end gas filling press AGP-A is suitable for a wide range of applications due to the individual configuration options and impresses with the highest precision and quality. The LiSEC VFL-1F is a system for sealing insulating glass units with two-component sealants. The perfected build-up of this system guarantees a high degree of process reliability and top corner quality - even for units of high weight.

MARKET CHANGES

The economy has changed dramatically since 2020. "We're currently experiencing an economic situation we've never seen before. Indeed the damage isn't even fully tangible yet," says Felbermayer, concluding that, "the coming years will be difficult for every company." He nonetheless expresses delight at having accelerated the insulating glass production project: "Insulating glass and the financial savings it delivers benefit us because it affords a huge advantage over the competition, thanks to production automation. Bringing this forward was the right decision. It will be a great help to us over the long term - especially given the challenges of the coming years."

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