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**Technological milestone in insulating glass production: Chongzheng Shengda Glass opts for the first 8 × 3.3 metre TPA line from LiSEC**

*By installing the world’s first 8 × 3.3 metre insulating glass line with thermoplastic spacers (TPA) from LiSEC, Chongzheng Shengda Glass Co., Ltd. is taking an important step in developing its production technology further. The project does not just mark a world’s first in producing large-format TPS insulating glass but also underlines the leading technological role that both companies are taking in implementing more innovative, efficient and sustainable production solutions.*

**Leading in research, precision and sustainability**

Chongzheng Shengda Glass, part of the Shandong Chongzheng Group, is one of the leading manufacturers of energy-efficient functional glass in China. The company operates the most modern production systems in the high-tech industrial park in Zibo and focusses on high quality 4SG and low-E glass products for architecture, façades and structural engineering. By deciding for the LiSEC 8 × 3.3 m TPA line, the company is continuing its consistent strategy of using technology as a lever for quality and sustainability.

**Why TPA: Process reliability and efficiency without compromise**

The LiSEC TPA system (Thermoplastic Spacer Application) replaces conventional frame production with fully-automatic, direct application of the thermoplastic spacer material onto the glass sheet. The material is fed from a drum, heated up, applied precisely and then hermetically sealed at the corners using a compression system.

**Clear advantages of the TPA technology:**

* **Seamless production process:** No bending or installing frames – therefore, shorter cycle times and low risk of errors.
* **Highest precision:** Automatic edge sealing without visible joints or height deviations.
* **Maximum flexibility:** Seamless change between different insulating glass sizes and spacer widths without changeover times.
* **Permanent sealing:** Chemically stable connection between the glass, TPA material and the sealant ensures extreme durability of the insulating glass unit.
* **Energy efficiency:** Reduced material consumption, optimised drying cycles and up to 30% less energy consumption compared to conventional production methods.

**Project implementation: Trust through experience**

The partnership between Chongzheng Shengda Glass and LiSEC goes back as far as 1998. Even the very first LiSEC insulating glass line and cutting system proved itself over two decades. The trust in quality, project management and technical competence was therefore decisive for implementing the new 8 × 3.3 metre TPA line – a system that is unique in the world in these dimensions.

“We knew that, with LiSEC, we are not just buying machines, but the experience of an industry pioneer. This made the clear difference fir a project of this magnitude”, explains Song Xunwu, General Manager of Chongzheng Shengda.

**Results: A benchmark for precision and efficiency**

By starting up the new line, Chongzheng Shengda achieves:

* **30% lower energy consumption** thanks to an intelligent control system and process optimisation,
* **Efficiency increases** thanks to newly-structured processes and packaging processes.

The feedback from the market confirms its success: The press release for the new line was viewed more than 26,000 times – a clear indicator of the announcement effect of this technological pioneering performance. “This production line is a benchmark for the glass industry”, explains Song Xunwu, General Manager of Chongzheng Shengda. “It shows what is possible when technology, partnership and innovation come together.”

**Partnership as an innovation driver**

The cooperation between LiSEC and Chongzheng Shengda goes far beyond machine sales. Together, both companies develop new approaches, text expansions and optimise functions directly in practice. “Our cooperation is based on open feedback, technical expertise and mutual trust”, says Song Xunwu. “This is the basis for redefining standards in the glass industry together.”

**Photos** © LiSEC

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© LiSEC; General Manager Song Xunwu

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© LiSEC; starting up the 8 × 3.3 m TPA line

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© LiSEC; from left to right. Song Xunwu (Chongzheng Shengda Glass), Chi Qiao and Markus Jandl

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© LiSEC; Mr. Gao (LiSEC), Mr. Song (President of Chongzheng Shengda Glass), Mr. Wang (General Manager of Chongzheng Group), Mr. Qiao (LiSEC), Mr. Jandl (LiSEC) and Mr. Leichtfried (LiSEC) discussing the quality and performance of the produced TPA units

**About LiSEC**

With headquarters in Seitenstetten/Amstetten, Austria, LiSEC is a worldwide group of companies that has provided individual and extensive solutions in flat glass processing and refining for more than 60 years. In 2024, the group, with around 1,300 employees and 25 locations, generated total revenues of around EUR 300 million, with an export rate of more than 95 percent. LiSEC stands for high quality machines and systems, as well as integrated complete solutions including software along the entire process chain in flat glass processing. The product range comprises both standalone machines and complete production lines for glass cutting, glass edge and glass surface processing, producing insulated and laminated glass, as well as the underlying intra- and extra-logistics. Customers benefit from cooperating with a complete service provider that has comprehensive experience in implementing large projects and a global service network.

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