

News

May 28, 2024

Stack up on expertise! Feintool und SITEC at the FCVC in Shanghai

Together, we will showcase our expertise in the development and manufacturing high-precision bipolar plates and interconnects for the hydrogen economy at the FCVC fair in China. We will also be presenting our new "Stack up on" campaign, which is being rolled out in Asia following its successful launch at this year's Han-over Messe. The campaign focuses on the customer and market benefits of our key components for fuel cells and electrolyzers.

Hydrogen is a central element for sustainable energy systems of the future. China has made remarkable progress in the development and application of hydrogen technologies in recent years. The country is investing heavily in research and development to reduce its dependence on fossil fuels and meet climate change targets. In particular, electrolyzers and fuel cells are expected to make a significant contribution.

The metal bipolar plates and interconnects we manufacture are at the heart of fuel cells and electrolyzers. They must meet the highest standards of tightness and precision. Feintool and SITEC manufacture these high-precision parts for hydrogen applications on an industrial scale. Both companies have been valued as technology partners and suppliers worldwide for decades.

Stack up on precision, speed, quality, and efficiency!

Precision, speed, quality and efficiency are key factors for competitive production – especially in this dynamic environment. With the "Stack up on" campaign, we are highlighting our advantages for customers at the Chinese market. Thanks to our strong partnerships, we are already able to supply bipolar plates and interconnects with customer-specific designs, ready to install, in the highest quality and in large quantities worldwide.

- **Stack up on PRECISION:** Ultra-precise metal forming process.
- **Stack up on SPEED:** Laser welding at top speeds with excellent weld seams.
- **Stack up on QUALITY:** Quality assurance integrated directly into production.
- **Stack up on EFFICIENCY:** Scalable, efficient solutions - for prototypes, pre-, low- and high-volume series.

The successful cooperation between SITEC and Feintool is already evident at the Taicang site, where series production of metallic precision components for the hydrogen economy

will begin this year. We have also received the first order for series production in Europe in the spring of 2024.

Visit us at our booth F33 at the FCVC in Shanghai from June 4-6, 2024!

Technologies

FEINforming: Advantage through precision

Feintool's FEINforming technology enables the precise processing of ultra-thin material thicknesses with maximum accuracy. This results in weight and volume reduction, facilitating a more compact arrangement of the cells within the fuel cell stack and in electrolyzers. Through the optimization of material use, design implementation, and production processes, we unlock significant potential for reducing costs and increasing the efficiency of fuel cell and electrolyser technology.

FLEXwelding: Advantage through efficiency

Employing efficient laser technology from SITEC, FLEXwelding stands out as an extremely economical process. Characterized by the highest welding speeds, maximum contour accuracy, and virtually distortion-free components, FLEXwelding ensures optimal results. In addition, the intelligent systems specially developed by SITEC form the basis for excellent weld seams. Integrated, intelligent monitoring processes ensure 100% quality control and traceability within automated production systems.

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About Feintool

Feintool is an international technology and market leader in electrolamination stamping, fineblanking, and forming. We manufacture high-quality precision parts in large volumes from steel.

We supply the automotive industry, energy infrastructure equipment providers, and all manner of high-end industrial manufacturers. Feintool's products perfectly complement the mega-trends for green energy generation, storage, and usage.

Our core technologies deliver measurable cost-efficiency, consistent quality, and improved productivity. Feintool constantly expands the horizons of its production methods and develops intelligent solutions, innovative tools, and state-of-the-art manufacturing processes in line with customer needs.

Founded in 1959 and headquartered in Switzerland, the company has 17 production sites, 3,200 employees and over 100 vocational trainees in Europe, the USA, China, Japan and – as of 2025 – India. In 2023, turnover amounted to 848 million Swiss francs. Feintool is publicly listed and majority-owned by the Artemis Group.

About SITEC

SITEC is an internationally valued partner and system supplier for automated high-tech production systems and the series production of precision parts and assemblies.

Focusing on the use of innovative technologies, complete turnkey solutions and the highest quality, we develop production-ready solutions for laser material processing and automated assembly for the automotive and renewable energy industries. The company achieves this with around 300 employees and optimal teamwork.

SITEC is growing with the challenges of its customers and the market, such as the economical production of future-oriented products in the field of e-mobility or self-sufficient storage technologies based on fuel cells and interconnects. The company has been producing laser-welded bipolar plates on behalf for customers since 2012.

Fully automated laser processing systems for laser welding of copper in particular for components in e-drives, battery systems and power electronics, complete the portfolio.

Founded in 1991 and headquartered in Germany, the company serves Asian markets directly on site via SITEC Laser Technology (Shanghai) and operates a showroom in the USA (Pittsburgh).