SITEC FEINTOOL

Media release

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Leading Hydrogen Solutions

SITEC and Feintool will be making their first joint appearance on the European stage at Hydrogen + Fuel Cells EUROPE from April 17 to 21.
Following a successful start to their cooperation in Asia, the two technology companies are also strengthening their collaboration in Europe to produce metallic bipolar plates for fuel cells and electrolyzers.

Hydrogen is considered as a central component for the energy system of the future. Metallic bipolar plates - the heart of hydrogen systems for fuel cells and electrolyzers - must therefore be manufactured economically on an industrial scale.

For decades, Feintool and SITEC have been valued suppliers of precision parts and assemblies worldwide, as well as manufacturers of complex production systems for the automotive industry and alternative energy technology, among others.

In the production of bipolar plates, the forming and joining process must meet the highest requirements in terms of tightness, precision and repeatability. With the FEINforming forming process developed by Feintool and SITEC's efficient FLEX Welding laser welding process, the companies also want to take off in Europe. The integrated processes of FEINforming, FLEX Welding and FLEX Inspection are used to join high-precision individual sheets into bipolar plates on corresponding production lines.

Thanks to the partnership, both companies are able to supply bipolar plates according to customer-specific designs, ready for installation, in the highest quality and in large series worldwide.

The cooperation ranges from engineering and supply chain management to prototyping and quality management. In the course of the cooperation, the manufacturing processes are constantly being further developed and additional complementary processes, such as coating, are added.

We are looking forward to your visit in **hall 13, booth D47.**

www.bipolarplates.com

FEINforming: Advantage through precision

F EINforming technology enables the precise processing of the thinnest material thicknesses with the highest accuracy. This results in a reduction in weight and volume, allowing a more compact arrangement of cells in the stack. The optimization of material usage, design implementation and production opens up high potentials for cost reduction and efficiency increase in fuel cell and electrolyzer technology.

Flex Welding: Advantage through efficiency

The use of efficient laser technology is an extremely economical process. Highest welding speeds, maximum contour accuracy and almost distortion-free components are the features of FLEX Welding. In addition, the intelligent fixtures specially developed by SITEC form the basis for excellent welds. Integrated, intelligent monitoring systems ensure 100% quality control and traceability in automated production lines.

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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.

Based on the highest quality and environmental standards, SITEC offers efficient manufacturing technologies as well as complete key solutions.

For its global customers in the automotive industry, medical technology, and alternative energy technology, SITEC develops production-ready solutions for automated assembly, laser material processing and electrochemical metalworking. The company achieves this with around 300 highly qualified employees and optimum teamwork.

SITEC grows with the challenges of its customers and the market, such as the development of new products in the field of e-mobility or autonomous storage technologies based on fuel cells. Fully automated laser processing systems for laser welding, in particular of copper, for components in e-drives, battery systems and power electronics are now part of the portfolio.

In addition, the company has been producing laser-welded bipolar plates of various designs to customer order within series production since 2012.

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).

About Feintool

Feintool is an international technology and market leader in the technologies of fineblanking, forming and e-sheet stamping for the processing of sheet steel. These technologies are characterized by economy, quality and productivity.

As a driver of innovation, Feintool is constantly expanding the limits of these technologies and developing intelligent solutions for the needs of its customers: high-performance fineblanking systems, innovative tools and state-of-the-art manufacturing processes for sheet steel in large quantities for automotive and industrial applications as well as renewable energies. The processes used support the megatrends of generating, storing and using green energy.

Founded in 1959 and headquartered in Switzerland, the company has 19 of its own production plants and technology centers in Europe, the USA, China and Japan, and is therefore always close to the customer. Around 3500 employees and over 100 trainees work on new solutions worldwide.