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Euroguss 2022: Grenzebach introduces further developments of their in-house friction stir welding and casting technology

- Grenzebach will be present with two specialist fields on the international trade fair Euroguss in Nuremberg in hall 9, exhibition stand 9-309, from 8th to 10th June 2022.
- In the field of castings, Grenzebach will be exhibiting a comprehensive range of casting processing options at this year's trade fair.
- Visitors interested in the forward-looking welding process of friction stir welding are also very welcome at the Grenzebach exhibition stand.

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Asbach-Bäumenheim, Germany. Grenzebach will be part of the 2022 international trade fair Euroguss in Nuremberg. From 8th to 10th June 2022, Grenzebach experts will guide visitors through the wide range of solutions the automation specialist offers for the optimized processing of castings and the friction stir welding technology. Sample pieces from the friction stir welding and casting sectors provide insights into the company's technological know-how.

Welding process-safe and tight with the friction stir welding technology from Grenzebach

Friction stir welding (short: FSW) stirs metals at their weld seam using friction, pressure and heat instead of melting them. This innovative welding process centers around the rotating tool which joins metals gently and emission-free. The weld seam is heated but joint in a still solid state, making it process-safe as well as media and pressure-tight. The durable weld seams have a high, reproducible seam strength as well as a high-quality surface. This makes friction stir welding the ideal welding process for mixed joints, such as aluminum sheets or extruded profiles with die-cast aluminum.

Grenzebach castings for the international automation industry

"Whether it is aluminum, iron or steel castings, pores, cracks or cavities should not occur in modern production. Quality must be guaranteed even at highest throughput rates", says Alfred Schlosser, Senior Vice President Casting and FSW at Grenzebach. Grenzebach is well aware of this in the processing of castings. After all, the company produces and processes over 14,000 tons of castings a year.

For over 20 years, Grenzebach has been a partner of the automation industry for the efficient manufacturing and processing of high-quality castings. The casting parts are used in industrial robots, building machines and agricultural technology.

Castings according to European and international quality requirements

Customers can rely on the many years of experience and expertise of the casting specialist. The product properties and forms are defined together with the customers and then manufactured in China. "Within a few months, we prepare an individual and optimized series production for our customers", Schlosser says. To achieve this, Grenzebach cooperates with numerous Chinese foundries and can

thus access various casting processes such as sand, pressure, fine and permanent mold casting.

The casting parts are processed according to European and international quality requirements. Upon customer request, the casting and automation specialist takes over all steps of the process, from milling, lathing and drilling to logistics. The company never stands still: Grenzebach consistently cooperates with universities and the professional world to further develop casting processes and products with regard to efficiency, quality and cost-effectiveness.



For over 20 years, Grenzebach has been manufacturing high-quality casting parts for the international industry - from iron to steel and aluminum castings to forged parts. Customers benefit from the specialist's wide range of services throughout the complete supply chain.

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In friction stir welding, the workpieces are joined using friction, pressure and heat. This results in a durable, media and pressure-tight weld seam.

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The double-spindle FSW gantry machine D-DSM from Grenzebach enables even faster and more efficient work using its two independently operating welding heads.

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About casting at Grenzebach

Grenzebach manufactures high-quality castings for industrial use. Grenzebach designs and builds molds and models exactly according to customer requirements and thus provides the individual foundation for an optimized series production. In the machining center at the Chinese site in Jiashan, the castings are processed in accordance with European and international quality requirements. Grenzebach takes care of the entire supply chain: from consulting and design to casting and machining as well as quality control and logistics.

About friction stir welding at Grenzebach

Friction stir welding (FSW) is the innovative welding process for joining materials durably and robustly. The metals are stirred, not melted. FSW can be optimally integrated into industrial series production. Grenzebach is your automation partner from the very beginning. Different equipment concepts are available – from gantry machines with customer-specific working ranges to robots, which weld 3D geometries. Developing processes and providing friction tools are part of Grenzebach's holistic approach.

About Grenzebach

Grenzebach is a leading automatization solution provider for the global glass, building material and intralogistics market. In addition, the company develops new application areas, such as friction stir welding, the automatization of industrial additive manufacturing and digital networking. The digitalization platform SERICY allows customers to develop their own future-proof digital know-how. Grenzebach ranks among the international technology leaders in its markets. The global manufacturing footprint with production sites in Germany, Romania, the US and China, as well as additional worldwide locations ensure customer support on-site. More than 3,000 systems installed in more than 55 countries stand for quality and reliability. Since the company opened its doors 60 years ago, it has been owned by the founding family. With an export ratio of more than 90 percent, Grenzebach is a global player.

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<https://www.linkedin.com/company/grenzebach-group>

YouTube:

<https://www.youtube.com/TheGrenzebachGroup>