

TECHNOLOGY AND INNOVATION DISTINGUISH PORTUGUESE MANUFACTURING

Portugal, the partner country of HANNOVER MESSE'22, is a global player in Engineered Parts & Solutions. The Portuguese offer has demonstrated enormous international competitiveness in this business area. Engineered Parts & Solutions is one of the topics where Portugal will stand out at HANNOVER MESSE 2022, with 69 companies in Hall 3.



In recent years, Portugal has strengthened its position as a global player based on its ability to produce small series with high added value, providing flexibility at a remarkable price/quality ratio. Its main client industries are in relevant, sophisticated and demanding sectors, ranging from automotive, aeronautics, electrical and electronics, among others.

The main international companies value Portugal's qualified and experienced workforce and the technological and engineering prowess of Portuguese companies, which allows them to manufacture high precision technical parts in metal, plastic or rubber.

From small components to complete systems, Portuguese companies stand for quality. They are mainly SMEs that have acquired the necessary specialised know-how, have developed their flexibility and capacity to respond to customers' demands, and employ innovation to better respond to the new challenges posed by the market.

The competitiveness of Portuguese companies is based on technical and engineering capacity, the incorporation of modern design requirements, and highly qualified human resources in production and control, capable of meeting the most rigorous quality and service standards.

At HANNOVER MESSE 2022 you will find companies active in the areas of casting, machined parts, sheet metal forming, parts and components made of plastics, rubber and composite materials, tools, and moulds as well as new solutions in and for these areas.

Ferespe, in partnership with FEUP – the Engineering Faculty the University of Porto and INEGI – Institute of Science and Innovation in Mechanical and Industrial Engineering, developed the Direct Investment Casting solution, which translates into the development of precision casting components on a model produced by additive manufacturing (3D printing/mouldless), in a new nickel alloy, applicable to the production of small and medium series.

The University of Coimbra will present a low-cost & scalable process solution for microchip integration into stretchable printed circuits and Printed & Stretchable Electronics, which enables the manufacture of complex soft-matter circuits in just two steps.

SOPLAST will present a patent-pending technology from the University of Coimbra in Portugal applied for the first time in automotive functions such as steering, HMI interface and seat control.

Adira and the Fraunhofer Institute for Laser Technology ILT have developed a large-scale Additive Manufacturing printer with L-PBF (Laser Powder Bed Fusion) technology. The parts printed by this machine can be used by the aerospace industry, the automotive industry and for prototyping.

TSF and INEGI developed equipment for Friction Stir Welding. This is a hybrid machine (milling and friction welding) that allows the manufacture of connections between thin hard alloys (aluminium and other light alloys), as well as hard alloys (ferrous alloys, titanium, etc.), in different joint configurations. This equipment can be used in the aeronautics industry, the railway industry, and the automotive industry (for the production of space frames, chassis components, fuel tanks, bus structures and other transport devices).

Portuguese companies in the Engineered Parts & Solutions area have gained ground and international recognition, standing out for their quality, innovation, and technology.

Visit the Portugal Engineered Parts & Solutions pavilion at HANNOVER MESSE'22, Hall 3!

