

Freemelt receives an order from Oxford Sigma for tungsten trial components

Freemelt has received a project order from Oxford Sigma to conduct geometry tests of additive manufactured tungsten for fusion power plants. This is another order in fusion and tungsten in a short period of time, which strengthens the company's position in the energy sector. The project is planned to be implemented in the first quarter of 2025.

The project is a feasibility study with the goal of validating tungsten for the manufacture of critical components in fusion technology. Using Freemelt's E-PBF technology and the eMELT® industrial machine, the company will develop processes and manufacture tungsten components for testing. If successful, the next step for Oxford Sigma is to proceed with further design development and to verify the performance of the material in operating test environments.

"This order further confirms our strong position in the energy sector and our expertise in manufacturing critical components in tungsten, which is one of the most challenging materials to process, but offers exceptional strength and durability at extreme temperatures," says Daniel Gidlund, CEO of Freemelt.

Oxford Sigma is a high-tech company with a mission to deliver materials technology, materials solutions, and fusion design services in order to accelerate the commercialization of fusion energy. In January, Oxford Sigma also entered into a strategic collaboration with Swedish Novatron to develop the design for future fusion power plants.

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About Us

Freemelt develops advanced 3D printers for metal components and aims to become the leading supplier in additive manufacturing (AM) using E-PBF technology, targeting SEK 1 billion in revenue by 2030. The solutions primarily support companies in the defense, energy, and medical technology sectors in Europe and the USA, enabling them to drive innovation and improve production efficiency. Founded in 2017, Freemelt has expanded its product portfolio to include three printer models, with two designed for industrial production and one (Freemelt ONE) targeting research institutes and universities. The modular industrial printers (eMELT) leverage E-PBF technology, delivering significantly higher efficiency compared to other machines on the market while maintaining flexibility in metal selection.

Freemelt generates revenue primarily through the sale of advanced 3D printers at fixed prices, complemented by support and maintenance services, which are expected to account for 25% of total revenue by 2030.

The company is now focused on further industrializing its product and service portfolio and driving commercialization in the European and North American markets. Read more at www.freemelt.com

Attachments

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