



SUMMARY

Development of smart retrofit modules for extrusion 3D printers, enabling stronger parts and industrial qualification.





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COMPANY PROFILE

LEAM Technologies GmbH is a technology company focused on industrializing extrusion-based additive manufacturing. The company develops core platform technologies that transform extrusion 3D printing into a controllable, repeatable, and qualifiable production process. By enabling data-driven manufacturing and process transparency, LEAM supports the transition from prototyping to certified industrial production, particularly for functional components made from engineering and high-performance polymers. Its solutions are designed for scalable deployment across industrial production environments.

REFERENCES AND EXPORT ACTIVITIES

LEAM works with industrial partners, research institutions, and machine manufacturers across Europe. Projects include pilot installations, industrial demonstrators, and collaborative development programs in multiple countries, supporting international technology transfer and market entry.

TARGET GROUP

Industrial manufacturers, machine builders, system integrators, and research institutions working on lightweight design, using extrusion-based additive manufacturing for functional parts, tooling, and end-use components in automotive, aerospace, energy, rail, and industrial production.

PRODUCTS / SERVICES

LEAM offers modular hardware modules, control electronics, and software systems that can be retrofitted to existing extrusion 3D printers and large-format robotic platforms. The product portfolio includes thermal management modules, sensor systems, real-time control software, and data infrastructure for process monitoring and quality documentation. Services include system integration, machine upgrades, application engineering, and customer-specific industrialization projects to enable reliable serial production.

COMPETITIVE ADVANTAGES

Modular retrofit architecture, closed-loop thermal control, and full process data transparency. LED-based heating technology is safer than laser and more performant than IR systems, enabling easier integration into industrial production environments. LEAM enables qualification, repeatability, and scalability on existing machines instead of proprietary platforms.

IDEAL BUSINESS PARTNERS

Industrial manufacturers, machine builders, system integrators, and research institutions working on lightweight design, using extrusion-based additive manufacturing for functional parts, tooling, and end-use components in maritime, aerospace, energy, rail, and industrial production.

BUSINESS DELEGATION TRIP | LIGHTWEIGHT TECHNOLOGIES | SPAIN

Carried out by:



In collaboration with:

