

Lasers 4MaaS



Lasers4MaaS combines dynamic beam shaping and a digital manufacturing platforms to transform the laser welding industry.

Our solutions drive flexible, sustainable, and high-precision production, revolutionising how sectors like automotive, aerospace, food packaging and renewable energy operate.



www.lasers4maas.eu

Why Choose Lasers4MaaS?

- ▶ **Deployment of Dynamic Beam Shaping:** Enhancing flexibility and precision in laser welding and laser-material processing in general.
- ▶ **AI-Driven Manufacturing:** leveraging advanced process modelling tools and physics-informed machine learning/artificial intelligence to reduce process development time, improve product quality and operational efficiency.
- ▶ **Digital Manufacturing Platforms:** seamless data integration for quality control, data interoperability, remote monitoring and predictive maintenance.
- ▶ **Sustainable and decentralized manufacturing:** delivering sustainability and design-x-circularity and shaping the digital product passport.

Industries We Serve

Automotive

Precision welding of battery cooling systems in electric vehicles to maintain absolute leak tightness during operation



Food and Drink Packaging

Fully sealed and spatter-free welds to eliminate risks of bacterial proliferation, while maximising production flexibility and reconfigurability

Renewable Energy

Ultra-fast speed welding of fuel cells stacks and in-bore welding of service pipes for fusion reactors

Aerospace

On-demand manufacturing of complex, high-precision parts

Be part of the revolution! Contact us to learn more or partner with Lasers4MaaS to revolutionize your production processes.

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