

FLASH

Flexible Laser-Based Manufacturing


The **FLASH** project lies in its ability to provide *agility*, *speed*, *cost-effectiveness*, *material flexibility*, and *energy savings* compared to existing technologies.



flashlaserproject.eu

Future-proof, Highly Customizable Energy-Efficient Laser-Based Production

The **FLASH** project aims to revolutionize manufacturing by leveraging *future-proof*, *highly customizable* and *energy-efficient laser-based production* systems to achieve highly precise photon distribution, with applications in *cutting*, *drilling*, *welding*, *cladding*, and *micro-machining*.

-  **Integration** of Laser Sources and Beam Delivery Heads.
-  **Dynamic** Beam Shaping.
-  **In-Process** Monitoring and Control.
-  **Design** for Laser-Based Manufacturing.



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5 PROJECT STUDY CASES

-  Superabrasive Grinding wheels;
-  Microdrills with a longer time life;
-  Automotive cross-car beam joining;
-  Copper hairpin stripping and welding;
-  Acetabular orthopaedic implant component.



www.flash-project.eu

FLASH PROJECT PARTNERS:



3drivers
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