Extremely High-Speed Laser Processes For Sustainable And Flexible Manufacturing

Kick-off of the HORIZON EUROPE project LASERWAY

Press release

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Cedrat Technologies is pleased to announce the kick-off of the European collaborative project LASERWAY.

The project gathers a consortium of 16 partners and is coordinated by IDEKO in Spain:

Participant No	Participant organisation name	Country
1 (Coordinator)	IDEKO S COOP	
2	FAGOR ARRASATE S COOP	
3	PRECITEC GMBH & CO KG	
4	FRAUNHOFER GESELLSCHAFT ZUR FORDERUNG DER ANGEWANDTEN FORSCHUNG EV	
5	FUNDACION TEKNIKER	
6	COMPO TECH PLUS SPOL SRO	
7	CESKE VYSOKE UCENI TECHNICKE V PRAZE	
8	ModuleWorks GmbH	
9	VIDEO SYSTEMS SRL	
10	SISTEMA AZUD SA	
11	ECOMATTERS B.V.	
12	FAGOR AUTOMATION S COOP	
13	ACUNITY GMBH	
14	TEMATYS	
15	AERNNOVA ENGINEERING DIVISION SAU	
16	CEDRAT TECHNOLOGIES SA	

The LaserWay project aims to revolutionize the manufacturing industry by replacing conventional, inefficient, and environmentally harmful methods with highly flexible production lines based on high-speed laser technology. Laser blanking, laser micro-drilling, and extreme high-speed laser material deposition (EHLA) are the three laser manufacturing technologies selected for their potential to create more sustainable manufacturing processes and products.

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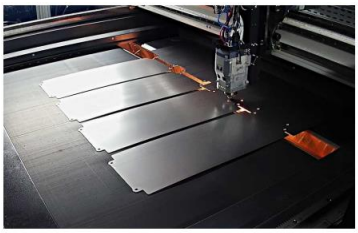
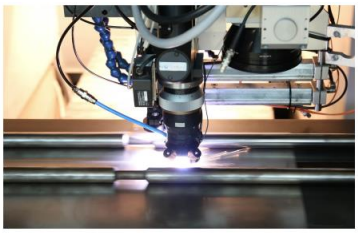


Laser Blanking



Micro Drilling

EHLA

The project focuses on developing WayFASTER machines to improve the performance of the laser technologies through lightweight designs, vibration control techniques, and program optimizations tailored for high-speed laser applications. WayBETTER Photonics aims to ensure precise delivery of the laser beam at extreme speeds, targeting three laser technologies with unique demands. The WaySTRONGER integration concept aims to enhance the sustainability, resilience, and flexibility of current manufacturing processes by integrating new technologies mechanically and digitally.

The project's success will provide a competitive edge for industries, such as automotive and aerospace, by reducing processing times, improving material usage, and enhancing end-product quality. The advancements made through the LaserWay project will drive innovation in high-speed laser processing, solidifying Europe's position as a global leader in advanced manufacturing technologies.

The LaserWay project is a European project funded under Horizon Europe Framework Programme (HORIZON)

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1 About Cedrat Technologies

Cedrat Technologies will work on the laser Micro Drilling during the three years of project to optimize the process. The objectives are to increase the speed of manufacturing while keeping a good quality of process.

Cedrat Technologies will provide a Fast Steering Mirror (FSM) technology to improve the laser drilling process so it can be WayFASTER and WayBETTER.

2 More information

LASERWAY's website: https://LASERWAY.eu

IDEKO – coordinatorLASERWAY@ideko.es

Contacts

Cedrat Technologies

https://cedrat-technologies.com/

Contact : +33 (0)4 56 58 04 00

59 Chemin du Vieux Chêne Inovallée
38246 Meylan Cedex
France