Customized photonic devices for defectless laser based manufacturing

Ergebnisse

Projektinformationen

CUSTODIAN

ID Finanzhilfevereinbarung: 825103

Projektwebsite

DOI
10.3030/825103

Projekt abgeschlossen

EK-Unterschriftsdatum
12 November 2018

Startdatum
1 Dezember 2018

Enddatum
31 August 2022

Finanziert unter
INDUSTRIAL LEADERSHIP - Leadership in enabling and industrial technologies - Information and Communication Technologies (ICT)

Gesamtkosten
€ 4 768 401,25

EU-Beitrag
€ 4 768 401,25

Koordiniert durch
ASOCIACION DE INVESTIGACION METALURGICA DEL NOROESTE
Spain

CORDIS bietet Links zu öffentlichen Ergebnissen und Veröffentlichungen von HORIZONT-Projekten.

Links zu Ergebnissen und Veröffentlichungen von RP7-Projekten sowie Links zu einigen Typen spezifischer Ergebnisse wie Datensätzen und Software werden dynamisch von OpenAIRE abgerufen.

Leistungen

Websites, patent fillings, videos etc. (5)

M06 Communication kit

D.6.12. M06 communication kit will be prepared about the project (as a minimum a narrative text, photographs, slides possibly complemented by a video and any other suitable communication material, accompanied with copyright licences for the European Commission and for Photonics21). The narrative text will target a general audience and focus on the technical achievements as well as on the economical and societal benefits for the EU.

M32 Communication kit

D612 M32 communication kit will be prepared about the project as a minimum a narrative text photographs slides possibly complemented by a video and any other suitable communication material accompanied with copyright licences for the European Commission and for Photonics21 The narrative text will target a general audience and focus on the technical achievements as well as on the economical and societal benefits for the EU

CUSTODIAN Workshop

D611 CUSTODIAN Workshop will be a final seminar considered in the training plan open to the public targeting the main stakeholders industry education standardisation bodies etc by the end of the project

CUSTODIAN Website

D6.1 CUSTODIAN Website will comprise a public site and a private members' area as a tool to ease the collaboration between partners and to share information. To be updated every three months, and a private members' area

M45 Communication kit

D618 M45 communication kit will be prepared about the project as a minimum a narrative text photographs slides possibly complemented by a video and any other suitable communication material accompanied with copyright licences for the European Commission and for Photonics21 The narrative text will target a general audience and focus on the technical achievements as well as on the economical and societal benefits for the EU Final version

Documents, reports (4)

Industrial demonstration report

D53 Industrial demonstration report containing the overall conclusions on the industrial deployment and testing results in both technologies

LCCA report

D54 LCCA report containing the overall conclusions on the cost analysis

On-line training material

D610 Online training material will contain a version of the training material excluding confidential information

Handbook on metallurgical defects and their genesis

D1.1 Handbook on metallurgical defects and their genesis will contain the summary of common defects and their genesis

Demonstrators, pilots, prototypes (1)

M18 Communication kit

D.6.12. M18 communication kit will be prepared about the project (as a minimum a narrative text, photographs, slides possibly complemented by a video and any other suitable communication material, accompanied with copyright licences for the European Commission and for Photonics21). The narrative text will target a general audience and focus on the technical achievements as well as on the economical and societal benefits for the EU.

Veröffentlichungen

Conference proceedings (3)

Stainless Steel Laser Beam Welding with a Dynamic Tailored Beam Shaping Laser-Head based on Multi-Plane Light Conversion

Autoren: Matthieu Meunier, Avinash Kumar, Aymeric Lucas, Stephane Bernard, Gwenn Pallier, Guillaume Labroille, Rosa Arias, Jorge L. Arias
Veröffentlicht in: Proceedings of ICALEO 2022, 2022, Seite(n) FLA504
Herausgeber: ICALEO

Online Calculation of Melt Pool Cooling Rate with Automatic Background Correction

Autoren: Elena Rodríguez Lois; Roberto Fernández Molanes; Carlos González-Val; Juan J. Rodríguez-Andina; José Fariña
Veröffentlicht in: Proceedings of IECON Annual Conference of the IEEE Industrial Electronics Society, Ausgabe 45th, 2019, Seite(n) 3085-3090, ISBN 978-1-7281-4878-6

Herausgeber: IEEE
DOI: 10.1109/iecon.2019.8927062

Freeform Beam Shaping with Multi-Plane Light Conversion for 1.07µm Ultra-High Throughput Laser-Based Material Macroprocessing
Autoren: M. Meunier, A. Otto, R. Gómez Vázquez, J. Arias, R. Fernández, G. Pallier, P. Jian, O. Pinel, G. Labroille
Veröffentlicht in: Proceedings of ICALEO 2019, Ausgabe 38th, 2019
Herausgeber: ICALEO

Non-peer reviewed articles (1)

Online Calculation of Melt Pool Cooling Rate with Automatic Background Correction
Autoren: Gwenn Pallier, Jannik Lind, Jorge L. Arias
Veröffentlicht in: Laser Systems Europe, Ausgabe Winter 2021, 2021, Seite(n) 17-19, ISSN 1759-0752
Herausgeber: Europa Science Ltd.

Datensätze

Datensätze via OpenAIRE (7)

Optimal Transformation Cycles
Autoren: Vedani, Maurizio; Molanes, Roberto Fern��ndez; Ceniceros, Mario Mart��nez
Veröffentlicht in: Zenodo

Handbook on metallurgical defects and their genesis
Autoren: Vedani, Maurizio
Veröffentlicht in: Zenodo

Dataset of Simulations for LBW and PBF processes
Autoren: Zenz, Constantin
Veröffentlicht in: Zenodo

Synthetic LBW Dataset
Autoren: Roberto Fernández Molanes; Constantin Zenz
Veröffentlicht in: Zenodo

Optimal Transformation Cycles

Autoren: Maurizio Vedani; Roberto Fernández Molanes; Mario Martínez Ceniceros
Veröffentlicht in: Zenodo

Data for imaging system calibration

Autoren: Maurizio Vedani; Roberto Fernández Molanes; Mario Martínez Ceniceros
Veröffentlicht in: Zenodo

Data for imaging system calibration

Autoren: Vedani, Maurizio; Molanes, Roberto Fern��ndez; Ceniceros, Mario Mart��nez
Veröffentlicht in: Zenodo

Weitere Forschungsprodukte

Weitere Forschungsprodukte über OpenAire (1)

Online Calculation of Melt Pool Cooling Rate with Automatic Background Correction

Autoren: Lois, Elena Rodríguez; Molanes, Roberto Fernández; González-Val, Carlos; Rodríguez-Andina, Juan J.; Fariña, José
Veröffentlicht in: Zenodo

Letzte Aktualisierung: 11 Dezember 2023

Permalink: https://cordis.europa.eu/project/id/825103/results/de