LaserEMobility Workshop 2022
Network and know-how for Laser based manufacturing in the EV sector

10TH and 11TH March 2022 - BI-REX Competence Center, Bologna (Italy)
LASER E-MOBILITY WORKSHOP AIMS TO BE A PLACE OF DISCUSSION BETWEEN LASER COMPONENT MANUFACTURERS, SYSTEM INTEGRATORS AND END-USERS IN EV SECTOR

On this two-day event component manufacturers, system integrators, and end-users from the e-mobility world get together to present the novel solutions and the future needs of the sector. The workshop is free of charge.

The event is planned to have discussions channelled towards the main issues of the sector. The round table discussion will put together the key players and academia together to foresee the next challenges.

CLICK HERE TO REGISTER
The event will be held in phygital mode: it will take place at BI-REX headquarters and will be broadcasted in live webstream.
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10th March 2022

9:00 Registration desk opens for in-person participants

9:20 Welcome speeches
Stefano Cattorini, Managing Director BI-REX
Alfredo Liverani, Director of Industrial Engineering Department (DIN)
Luca Settineri, President of Italian Association of Manufacturing Technologies (AITEM)
Vincenzo Colla, Councilor for Economic Development and Green Economy, Employment, Training at Emilia-Romagna Region
Alessandro Fortunato, LaserEMobility Workshop Co-organizer

Advanced sources, beam shaping, and monitoring

10:00 Overcoming challenges in EV production with Adjustable Ring Mode Fiber Lasers, Thomas Hofmeister, Coherent
10:20 Highly integrated laser systems and processes for E-Mobility manufacturing, Matthias Beranek, Trumpf
10:40 Advanced laser solutions for the E-Mobility industry, Stefano Cattaneo, IPG Photonics

11:00 Coffee break

11:40 Hairpin laser stripping, Giovanni Masotti, ElEn
12:00 Tailored solutions from a partner in laser E-Mobility: Results from wavelengths and beam shaping blend, Salvatore Salerno, Optoprim
12:20 Laser Processing of EV Battery Electrodes, Philippe Leopold, Lumentum

12:40 Lunch break

14:10 Going green - Laser welding and smart sensor technology driving E-Mobility, Jens Reiser, Precitec
14:30 OCT applications for laser welding in battery production, Richard Steinbrecht, Lessmüller
14:50 How pre-focusing deflection units from Raylase enable E-Mobility applications and optimize process monitoring, Jan Habedank, Raylase
15:10 In-line production monitoring of battery welding processes, Luca Porcelluzzi, MKS Instruments
15:30 Coffee break

Brainstorming event moderated by EPIC (1h30’)

16:10 Four specific E-Mobility themes, in open discussion, in four corners of the room. Moderator: Antonio Raspa, EPIC

Day 1 closure
17:40 Final Remarks

11th March 2022

End-users and future prospects

9:00 Ducati’s electrification challenges, Roberto Canè, Ducati
9:20 The future of electrification at Ferrari, Luca Poggio, Ferrari
9:40 Title to be defined, Stefano Mazzetti, Lamborghini
10:00 Title to be defined, Luca Vescovi, Dallara
10:20 Coffee break

From process to system

11:00 Improving laser operation performance for the e-drive: From processing to testing, Davide Chesi, IMA Automation ATOP
11:20 Future battery technologies: Manz approach, Giorgio Balugani, Manz
11:40 Development of a laser welding cell for prototyping Li-ion batteries, Lorenzo Cecon, Nextemta
12:00 Electrical testing in the production of battery modules and packs, Anisa Kapxhiu, Marposs
12:20 Lunch break

13:50 BorgWarner - LaserEMobility 2022, Davide Spazian, BorgWarner
14:10 Laser welding in high performance battery system and manufacturing challenges, Giuliano Ellena, Podium Tech
14:30 The combination of advanced sensors and artificial intelligence to unlock batteries production, Massimiliano Moruzzi, Augmenta
14:50 Coffee break

LaserEMobility Research

15:30 Lasers for E-Mobility in Bologna
15:50 Lasers for E-Mobility in Milan
16:10 Lasers for E-Mobility in Munich

Roundtable discussion
16:30 Photons for electrons – Towards the LaserEMobility Network
Virtual lab tour and Workshop closure
17:10 Final Remarks

For further info you can refer to the webpage.