



FURTHER FRAUNHOFER TRADE FAIR APPEARANCES

Fraunhofer Development Center X-ray Technology EZRT
Booth 5B67

Fraunhofer Institute for Laser Technology ILT
Fraunhofer Institute for Production Technology IPT
Booth 5C55

Fraunhofer Institute for Ceramic Technologies and Systems IKTS
Fraunhofer Institute for Machine Tools and Forming Technology IWU
Booth 5C62

Fraunhofer Institute for Material and Beam Technology IWS
Booth 5E56

Fraunhofer Research Institution for Casting, Composite and Processing Technology IGCV
Booth 6R86

Fraunhofer for Applied Polymer Research IAP
Booth 6R51

EDITORIAL NOTES

Communications

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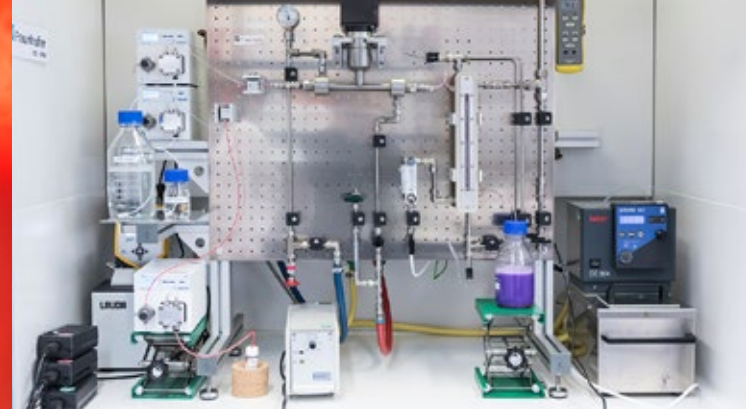
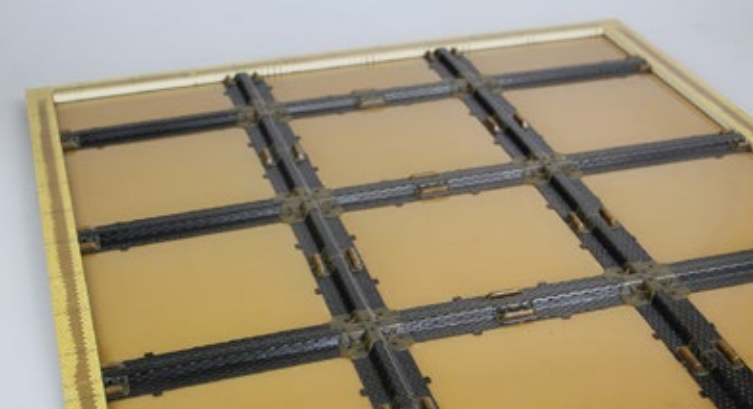
Project management JEC World

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Paris, March 6 – 8, 2018
Hall 5, Booth E61

JEC WORLD 2018





RESEARCH DEDICATED TO THE FUTURE

Fraunhofer is Europe's largest application-oriented research organization. Our research efforts are geared entirely to people's needs: health, security, communication, energy and the environment. As a result, the work undertaken by our researchers and developers has a significant impact on people's lives. We are creative. We shape technology. We design products. We improve methods and techniques. We open up new vistas. In short, we forge the future.

FRAUNHOFER TOPICS

Fraunhofer Institute for Microengineering and Microsystems IMM

Carl-Zeiss-Straße 18 – 20, 55129 Mainz, Germany
www.imm.fraunhofer.de

- Material encapsulation for industrial applications
- Encapsulation of active substances for effective protection and controlled release
- Nanoparticle technology
- Continuous production of polymer-based particles
- Additive manufacturing

Fraunhofer Institute for Chemical Technology ICT

Joseph-von-Fraunhofer-Straße 7, 76327 Pfinztal, Germany
www.ict.fraunhofer.de

Hybrid composite floor structure for automotive application (research Project SMiLE)

- Local advanced tailored LFT process for thermoplastic demonstrator
- Ultra-RTM process for thermoset demonstrator
- Hybrid thermoplastics for aerospace application and e-mobility
- Forming of complex structures based on UD-Tape
- Directly cooled electric motor with integral lightweight housing
- Internal cooling channels in the stator slots close to the winding for optimum heat dissipation
- High power to weight ratio compared to current state of the art electric motors

Fraunhofer Institute for Wood Research Wilhelm-Klauditz-Institut WKI

Bienroder Weg 54 E, 38108 Braunschweig, Germany
www.wki.fraunhofer.de

- Textile semi-finished products
- Bio-hybrid composites
- Recycled hybrid composites

Fraunhofer Institute for Nondestructive Testing IZFP

Campus E3 1, 66123 Saarbrücken, Germany
www.izfp.fraunhofer.de

- Broad range of nondestructive techniques for FRP characterization and inspection
- FRP ageing and recycling research
- Development of customized inspection and monitoring equipment
- Auto-adaptive smart inspection tools and sensors
- Sensor tracking option available for multiple methods
- Provision of inspection and consulting services

Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM

Wiener Strasse 12, 28359 Bremen, Germany
www.ifam.fraunhofer.de

- Plasma Pretreatment of Fibers and Intermediate Fiber Products
- Enhanced impregnability of fibers for faster processing
- Improved mechanical properties of resulting fiber reinforced plastics
- Inline-capable and adjustable pretreatment at atmospheric pressure
- crash box in hybrid design – by casting technology integrated glassfibre structure as a connecting element