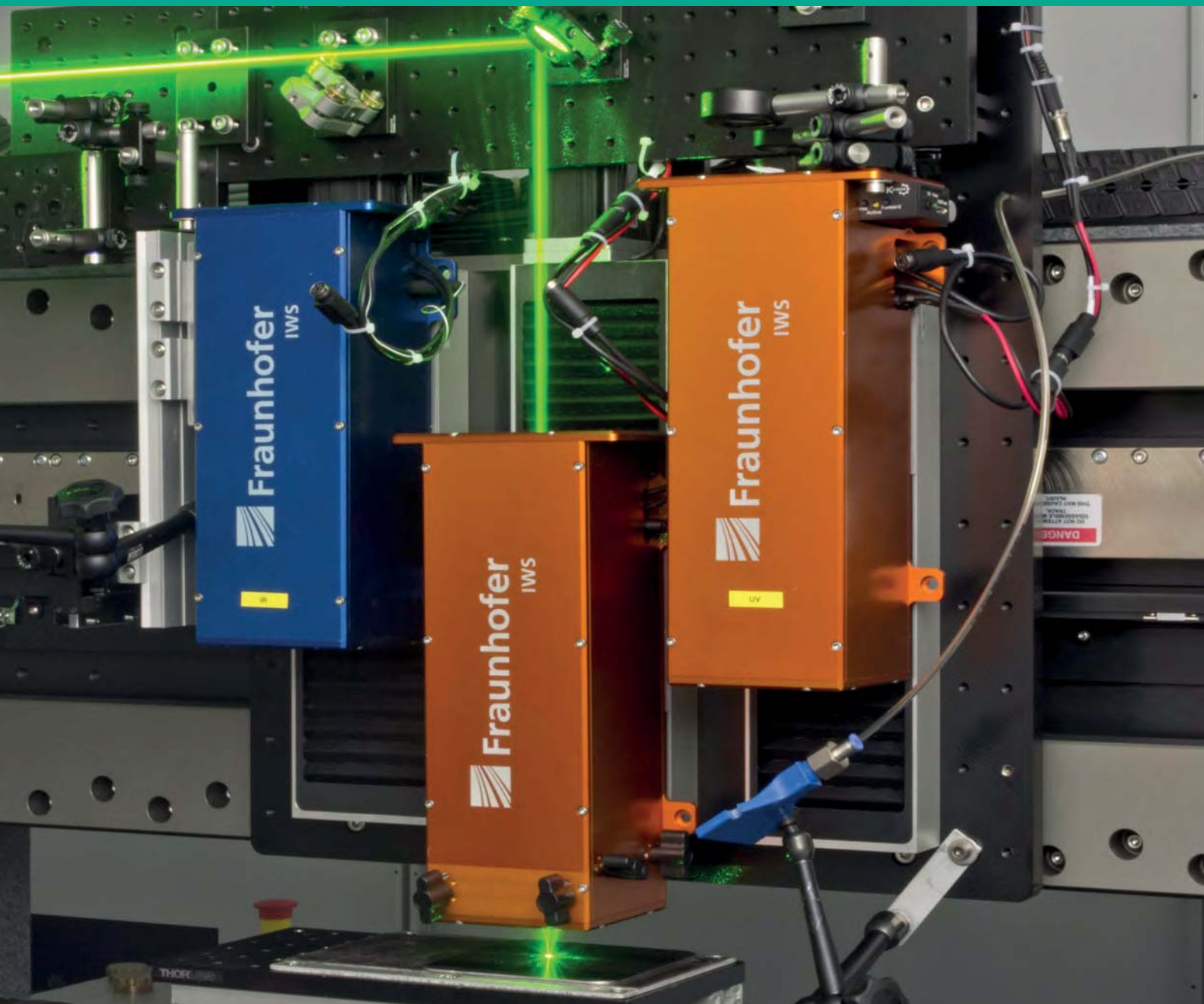
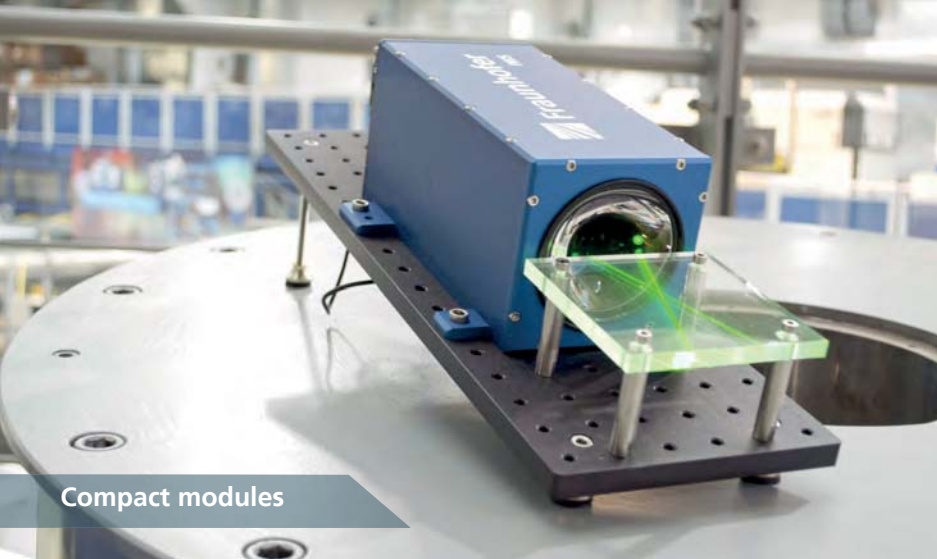


FRAUNHOFER INSTITUTE FOR MATERIAL AND BEAM TECHNOLOGY IWS

# DIRECT LASER INTERFERENCE PATTERNING

## TAILORED STRUCTURING SOLUTIONS



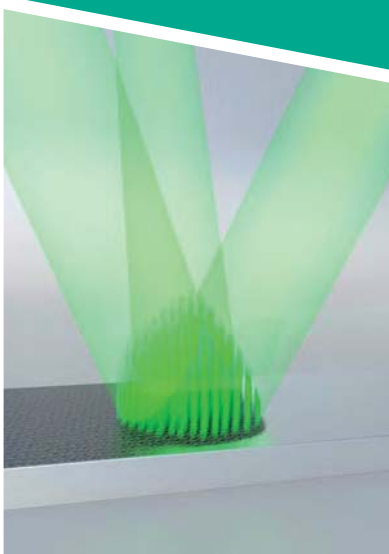


Compact modules



Complete systems

## SURFACE FUNCTIONALIZATION



### Advantages

- One step process
- Cost-efficient and fast processing of many materials
- No clean room, no vacuum, no chemicals necessary

### Applications

- Self-cleaning
- Product protection/decoration
- Tribology
- Biocompatibility
- Others on request

### Expertise

- Customized DLIP solutions
- Process and software development
- System integration

Lower friction coefficient for steel up to

**70%**

Hydrophobic surfaces with contact angles

**> 150°**

Defined cell orientation for bio-applications

**80%**

Longer lubrication life time up to

**1500%**

Higher relative efficiency of OLEDs

**36%**

## CUSTOMIZED DLIP SOLUTIONS

	Scanner ready	Change period within process	Processing speed >0,1 m <sup>2</sup> /min	Complex surface patterns
DLIP High-Speed			✓	✓
Flex DLIP	✓	✓		✓

Contact us

Dr. Tim Kunze  
Fraunhofer IWS  
Winterbergstrasse 28  
01277 Dresden / Germany

✉ [tim.kunze@iws.fraunhofer.de](mailto:tim.kunze@iws.fraunhofer.de)  
☎ +49 351 83391-3661