

**Fraunhofer Institute for
Material and Beam
Technology IWS Dresden**
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Company Profile

The Fraunhofer Institute for Material and Beam Technology IWS Dresden is characterized by two overlapping work areas: laser technology and surface technology. The development of technologies and systems using tailor-made laser light and the production of functional surfaces are exciting fields of research with great prospects for the future.

Business Field/Core Technology/Strength

In the field of flexible electronics, Fh IWS has developed laser processes for cutting of plastic substrates as well as structuring of thin functional layers. Furthermore, Fh IWS has profound knowledge in additive manufacturing and printing, e.g. for thermoelectric generators or piezoelectric sensors. Finally, Fh IWS develops technologies for evaluation of ultra-barrier materials for organic electronics.

Core Competences:

- Ablation and Cutting
- Microtechnology
- Joining
- Thermal Surface Technology
- Additive Manufacturing and Printing
- Chemical Surface Technology
- PVD and Nanotechnology
- Materials Characterization and Testing
- Optical inline inspection

