

**Institute of Textile
Machinery and High
Performance Material
Technology (ITM)**

<http://tu-dresden.de/mw/itm>

Address:

Hohe Straße 6
01069 Dresden
Germany

Contact:

Dr. Michael Wöltje

michael.woeltje@tu-dresden.de

+49 351 463 44043



Company Profile

The Institute of Textile Machinery and High Performance Material Technology (ITM) is a world leading research institution, and is one of the most powerful of Technische Universität Dresden. Among other things, the ITM carries out extensive research and development work on the combination of technical textiles and microsystems technology, which leads to an interactive data and information medium and to the realization of sensor and actuator networks.

Business Field/Core Technology/Strength

Fields of application include the following high-tech applications:

- Structural monitoring and vibration damping of composites
- Medical textiles (wound monitoring, artificial muscles, implant monitoring)
- Human-machine interaction (CeTi cluster of excellence: eGloves, eSuits)

In addition, ITM has extensive expertise in the development of tailor-made functional materials and textiles as well as in the development of fiber-based sensor and actuator systems, including layout design on demand.

The **core competences** include the functionalization of textile materials, yarn development, the integration of functions into textile construction processes, the development of intelligent textile structures for elastomer components, the development of construction, bio and medical textiles, etc.

