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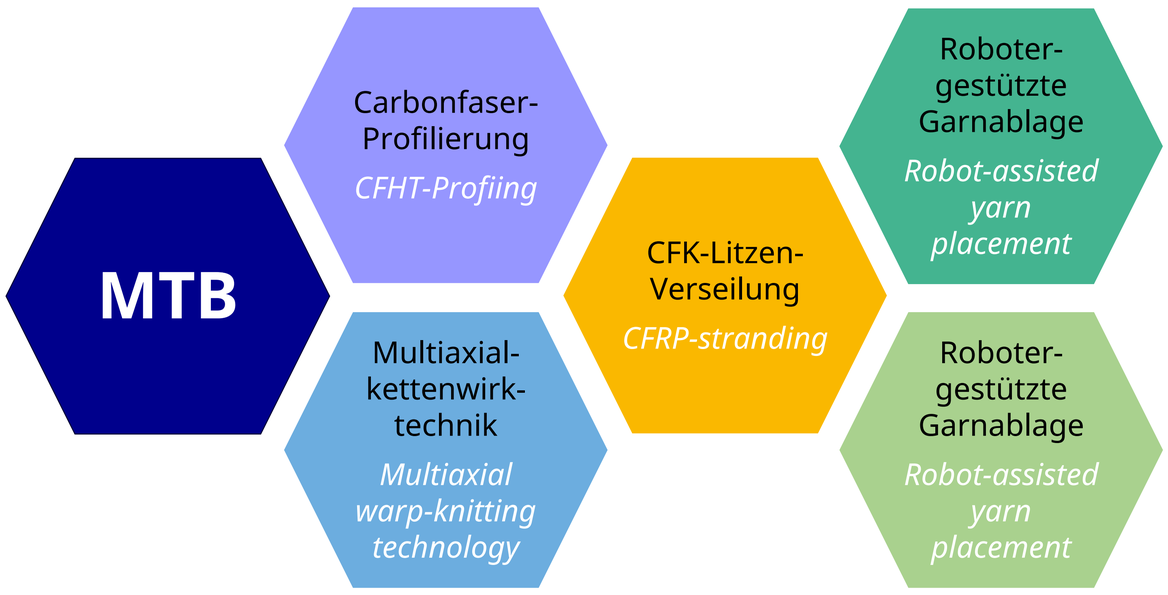
ITM LEADING IN FIBRE & TEXTILE TECHNOLOGY
The Research Institute of University of Excellence

Faculty of Mechanical Science and Engineering Institute of High-Performance Fibre Systems Technology: Medicine, Mobility, Energy, Infrastructure

Current Trends in Material- and Resource-Efficient, Sensor-Integrated Textile Reinforcements for Concrete- and Asphalt-based Infrastructure

Aktuelle Trends in material- und ressourceneffizienten, sensorgestützten Textilbewehrungen für die Infrastruktur

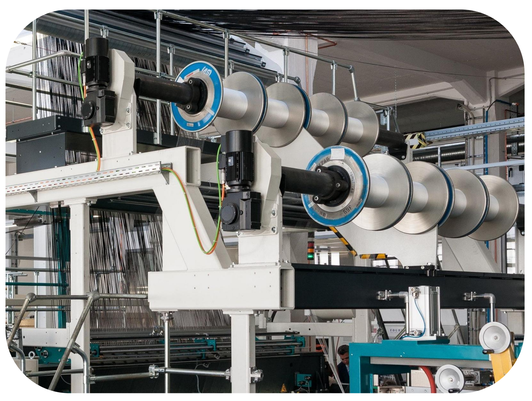
Forschungsschwerpunkte
Research focus areas

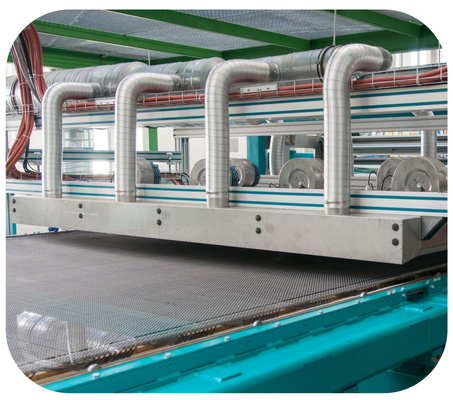


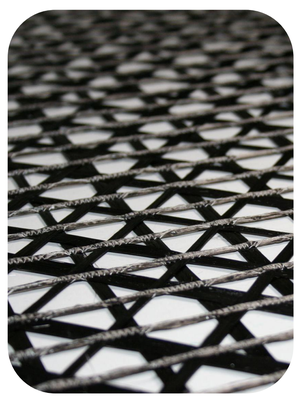
Themencluster
Thematic clusters



Forschungshighlights - Carbonbeton
Research Highlights – Carbon Reinforced Concrete



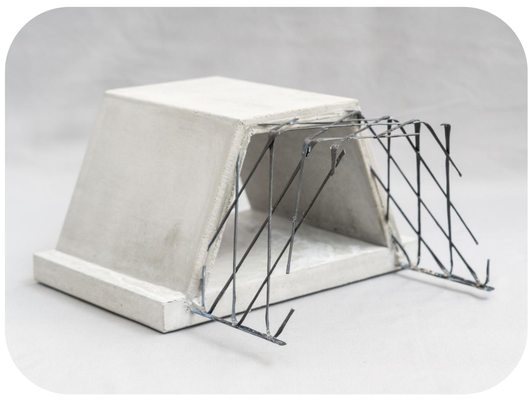




Multiaxial-Nähwirkmaschine zur Fertigung von hochleistungsfähigen Multiaxialgelegen /
Multiaxial Stich-bonding machine for production of hiph-performance NCFs | © ITM



Amphibienleitelement
3D-element for animal guidance

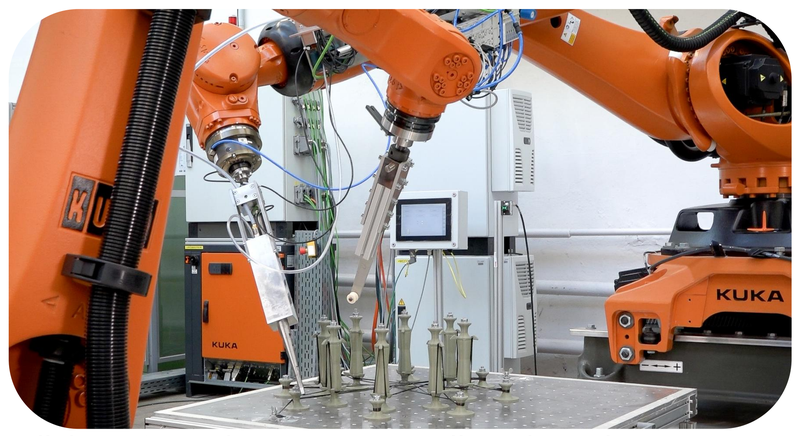


Netzgitterträger aus Carbonbeton/
Carbon fiber lattice girder | © ITM





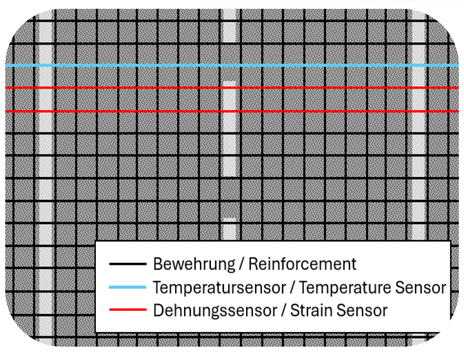
Laboranlage zur kontinuierlichen Verseilung und Konsolidierung von CFK-Spannlitzen /
Laboratory unit for continuous stranding and consolidation of CFRP tension strands | © ITM

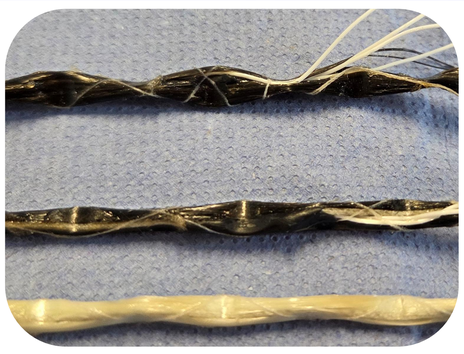


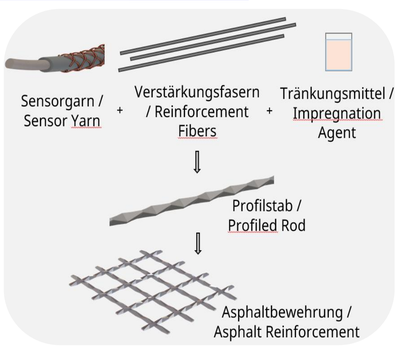


Kollaborative Roboter zur Herstellung komplexer 3D-HL-Faserkonstruktionen/
Collaborative robots for the production of complex 3D-HP-fiber structures | © ITM

Forschungshighlights - Straßeninfrastruktur
Research Highlights – Road Infrastructure

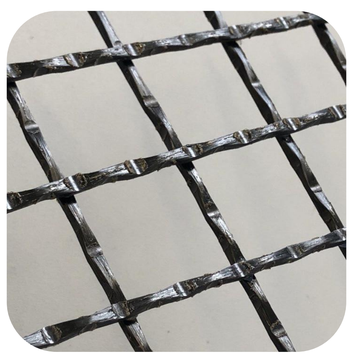






Intelligente Straßenbewehrung aus Carbon-, Basalt- und Glasstäben mit integriertem Sensorgarn /
Smart road pavement reinforcement made from sensor integrated carbon, basalt, and glass | © ITM





Laboranlage zur Fertigung von tetraederförmigen Profilgarnen /
Laboratory unit for production of tetrahedral profiled rovings| © ITM

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DLR Projektträger
Forschungskuratorium textil
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Die TUD ist Gründungspartnerin der Forschungsallianz DRESDEN-concept e.V.
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