Partner

TECHNISCHE UNIVERSITÄT CHEMNITZ

Strukturleichtbau Kunststoffverarbeitung

iST

stfi SÄCHSISCHES TEXTIL FORSCHUNGS INSTITUT e.V.

PTS FIBRE based solutions

FIBTEX GmbH fiber technology

profol Performs

FIBER ENGINEERING FIBER BLOWING TECHNOLOGIES

Technitex Sachsen

Teubert MASCHINENBAU GMBH

CBF 通鑫科技

Müller & Pfeiffer GmbH System- und Sonderlösungen · innovativ und flexibel

PAMA paper machinery

NEU KALISS SPEZIALPAPIER

Steinbeis-Innovationszentrum Automation in Leichtbau-prozessen (ALP)

IBT IBT.InfraBioTech GmbH

TEG Textile Expert Germany GmbH

newcycle

Contact

cetex®

Network managing center
Cetex Institut gGmbH
Netzwerk „RESSOURCETEX“
Altchemnitzer Straße 11
09120 Chemnitz
Germany

Network manager
Katarina Genz
Phone: +49 371 5277-219
Fax: +49 371 5277-100
Mail: genz@cetex.de
www.ressourcetex.de

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ZIM Zentrales Innovationsprogramm Mittelstand

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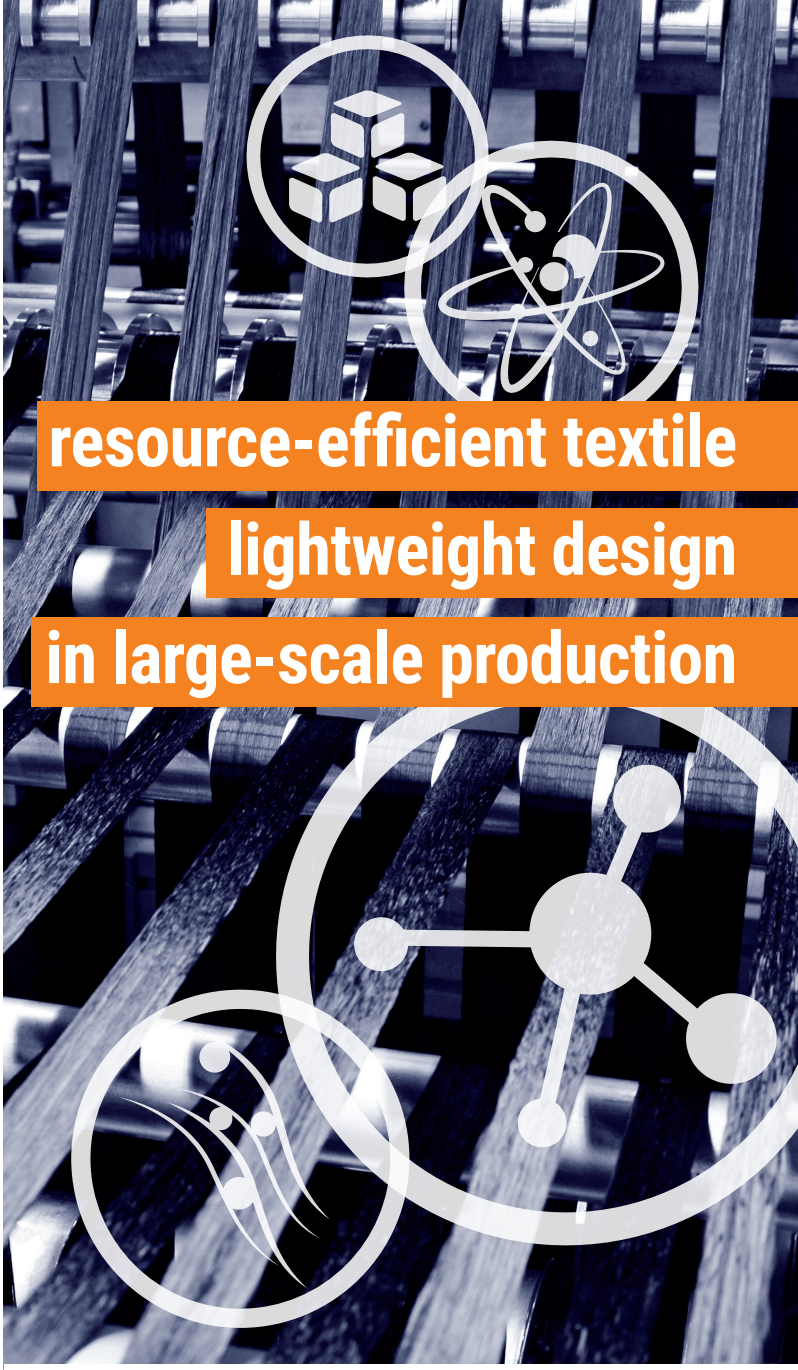

resource-efficient textile lightweight design in large-scale production

RESSOURCETEX

RESSOURCETEX
= well-networked expertise in resource-efficient textile lightweight design in large-scale production.

Textile technologies for affordable lightweight design in large-scale production

Fiber-reinforced plastic composites with their high lightweight design potential are the materials of the 21st century. At the same time, however, these new materials are in tough competition with traditional materials. Steel and aluminum in particular offer advantages with regard to the market price and the highly developed and long established processing technologies. In order to be successful in this competition, it must be possible to produce, process and reuse in particular these reinforcing textile and fiber-based structures cost-effectively.

Twelve companies and four research institutes are pooling their know-how in the network RESSOURCE**TEX** in order to break new ground for continuous production of resource-efficient semi-finished textile products and semi-finished products made of fiber-reinforced plastics, as well as recycling concepts for residual fiber materials and recycled carbon and mineral fibers.

The network develops and offers smart solutions for

- Continuous production of load-adapted semi-finished textile products for fiber-reinforced plastics
- manufacture of heavy-duty textile structures and semi-finished products by using fiber residues and recycled fibers for lightweight composite components

RESSOURCETEX

optimized properties and costs for lightweight components

Added value:

- Optimal use of fibers by combining different fiber types
- Reduction and avoidance of waste
- Further use of existing production waste at a high quality level
- Efficient reintegration of „end-of-life“ fibers into the value creation process

»The optimal fiber in optimum quantity at the optimal location«