

Temco PU and CoolFlow discs
For texturing processes

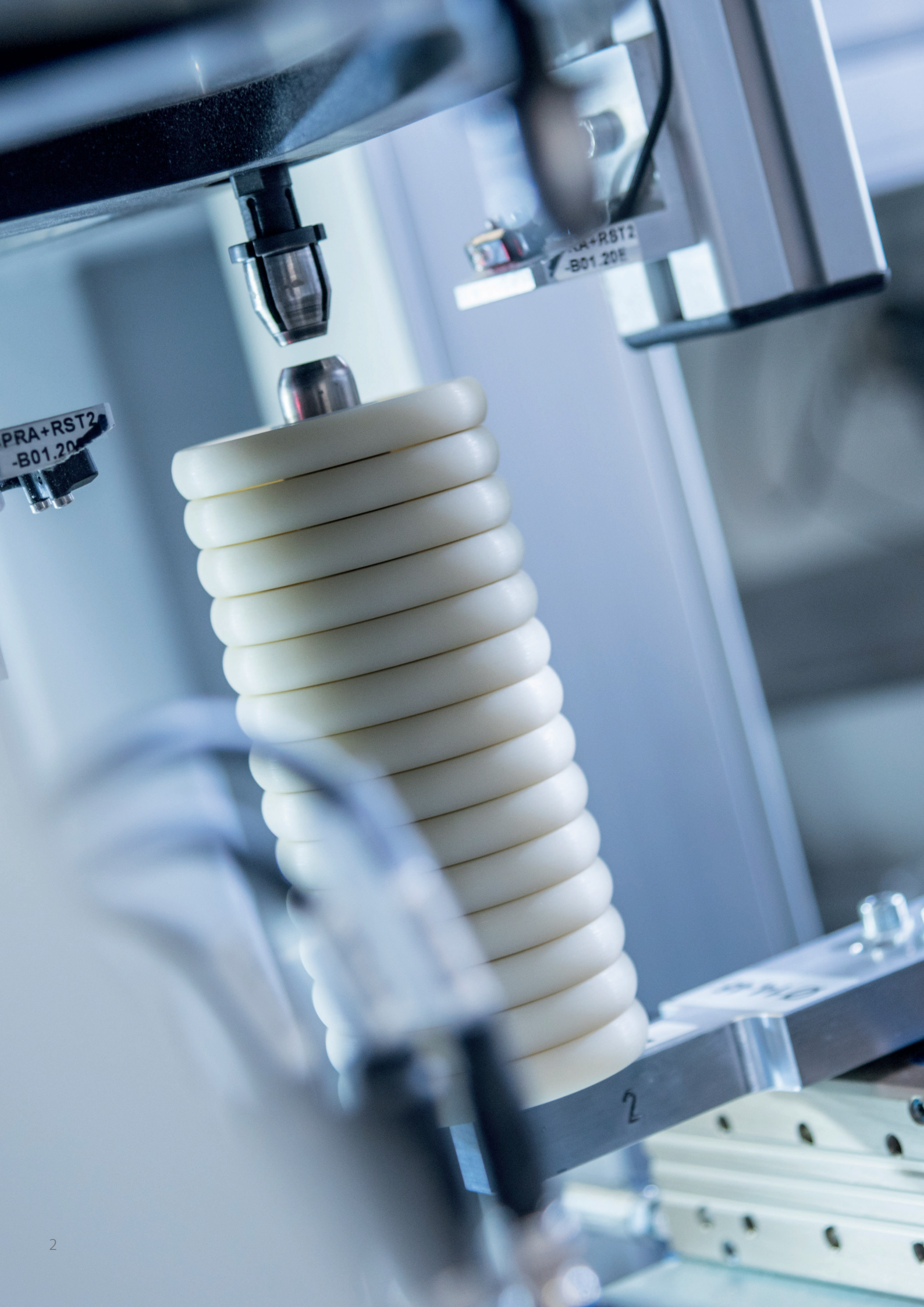
TEMCO

Texturing Discs

PU and CoolFlow discs



The benchmark in
texturing processes

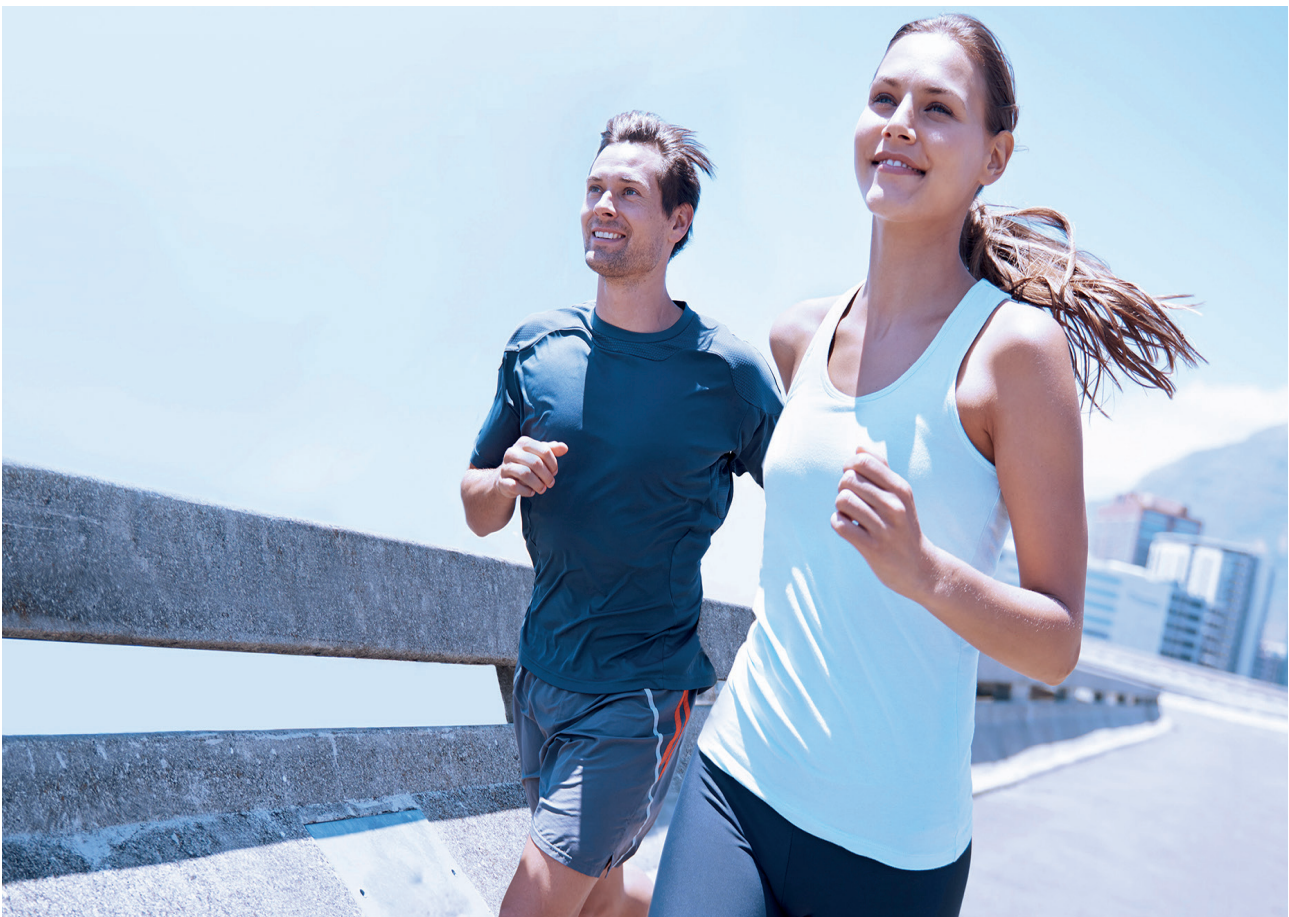


Temco Texturing Discs

Best quality results in the texturing process

Temco products are key elements in the production of synthetic yarns and are used on the machines of all well-known manufacturers in the international textile industry.

The core expertise of our company located in Hammelburg, Germany, are the development, manufacturing and distribution of standard as well as integrated bearing solutions. A team of over 150 employees is responsible for the design, manufacturing and worldwide distribution of customized Bearing solutions.



Temco has been committed to the development of Texturing Units and Discs for over 30 years.

PU raw material and production methods are selected to provide highest wear resistance and unsurpassed resistance against spinfinish. Due to the long service life of our discs, customers experience excellent economics.

OUTSTANDING

ADVANTAGES

Texturing of

Optimization of yarn
path geometry

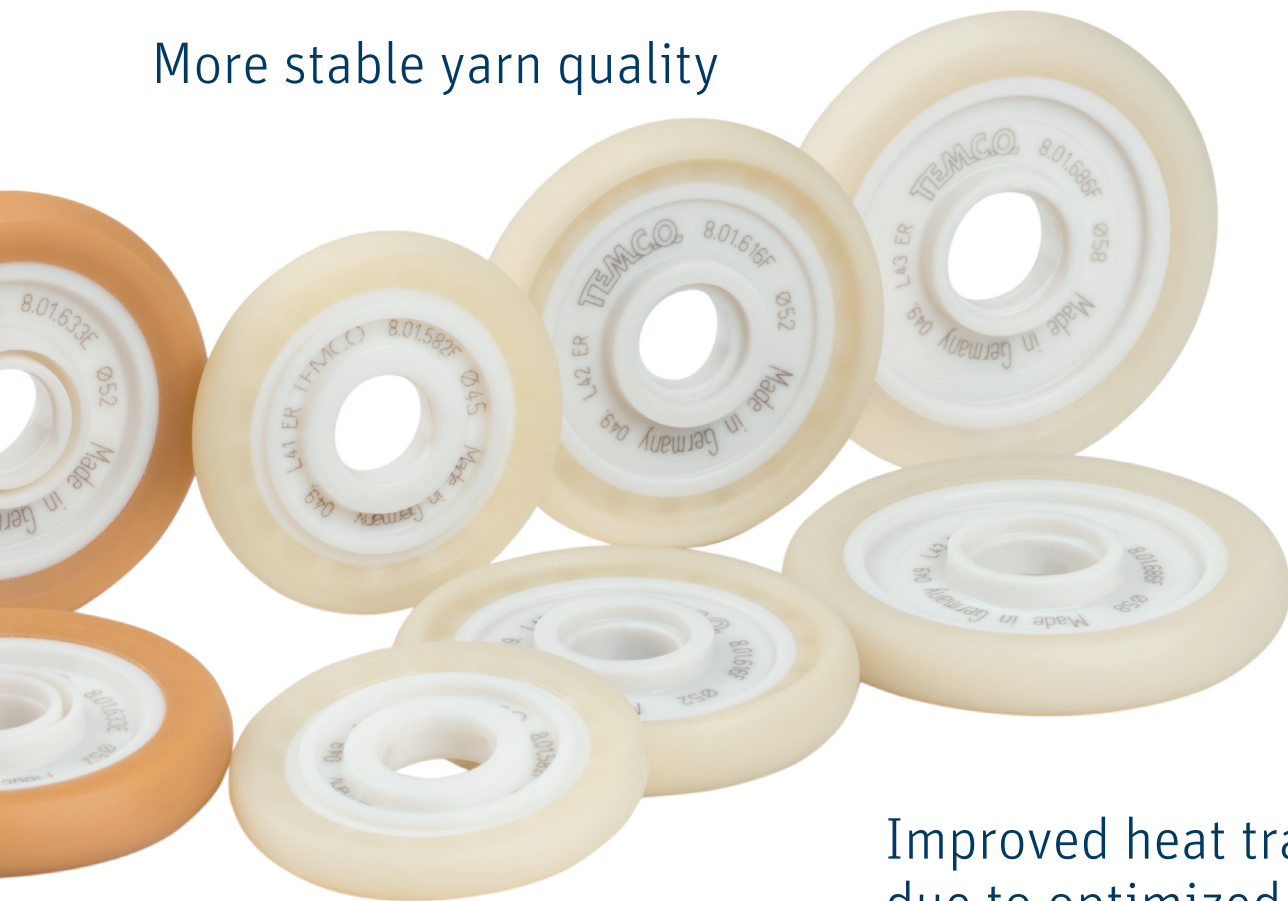
Highest qualities
even at high
texturing speeds



Lateral grinding for higher
precision

discs

More stable yarn quality



Improved heat transfer
due to optimized air flow

Compliance with tight tolerances
during production

PU Discs for Texturing Processes

Expertise

As a pacesetter in the development of PU texturing discs, Temco continues to set new milestones in texturing disc technology. As a texturing expert, the component manufacturer is in close cooperation with universities and technology leaders in the textile industry.

In-house R&D facilities include texturing machines with various profiles and heater types, as well as a complete textile laboratory. Temco offers the most suitable friction discs with a range of thicknesses and diameters to serve all common texturing units. Different shore hardnesses and shapes can be selected to achieve the best results for customers' specific yarn ranges and processes. Customer satisfaction is the ultimate goal.

Temco's texturing experts provide further advice to customers or carry out trials for customer-specific applications in the company's own textile laboratory. Ceramic discs always cause some abrasion on the yarn surface. The result: lower strength and elongation, more filament and yarn breaks and dirty machines.



With increasing texturing speed and finer filaments, the negative effect becomes more serious. PU discs are softer than the yarn, handle the yarn with care during twist insertion. The best yarn quality is based on careful selection of PU material, disc geometry and surface structure. Numerous tests with strict limits keep the texturing performance of Temco discs within narrow limits.

The measurement of physical properties is followed by texturing tests with different yarn types. As a result, customers can rely on top yarn quality that is consistent on all machine positions. In addition, the texturing performance is kept constant with different PU lots.



What to expect

Area of application

In texturing, friction discs are the key component for successful and profitable yarn production. By developing PU material, optimizing yarn path geometry and maintaining tight tolerances in manufacturing and quality control, Temco has set world standards with its texturing discs.

This enables the highest quality demands on textured yarns to be met at high texturing speeds:

- Twist level and stability
- Yarn tensile performance
- Yarn bulk and elasticity
- Low process and machine CV

Customer Benefits

The depth of experience gained in this process has enabled us to meet the ever increasing demands in:

- Yarn quality
- Production speed
- Process flexibility
- Process economics

CoolFlow Texturing Disc

The next generation

The long-term experience in disc manufacturing, filament processing and ongoing research and development are the origin of the latest development.

The German Institute of Textiles and Fiber Research has completed simulations of the texturizing process and proved that the air flow between the discs has been improved, and we have confirmed the improved heat transfer in numerous factory conditions around the world.





Features and benefits

The new geometric structure of the Temco Texturing Discs results in improved heat transfer efficiency, which in turn results in lower disc temperatures, longer product life cycles and process cost reduction.

The CoolFlow disc has a direct influence on the yarn quality as well as on process parameters and ensures:

- More stable yarn quality
- Higher dyeing uniformity
- More physically stable yarn characteristics
- Higher positional stability
- Increased yarn tension stability
- Lower machine CV value result

CoolFlow Texturing Disc

Features and benefits

More constant distance between discs

Lateral grinding gives the discs improved geometrical stability, higher precision and optimal performance due to lower machine CV value. The improved dimensional accuracy results in a better axial run-out of the disc and therefore a more stable process.

Reduced swelling sensitivity

Less swelling gives a constantly lower machine CV value during the whole lifetime due to better dimensional stability.

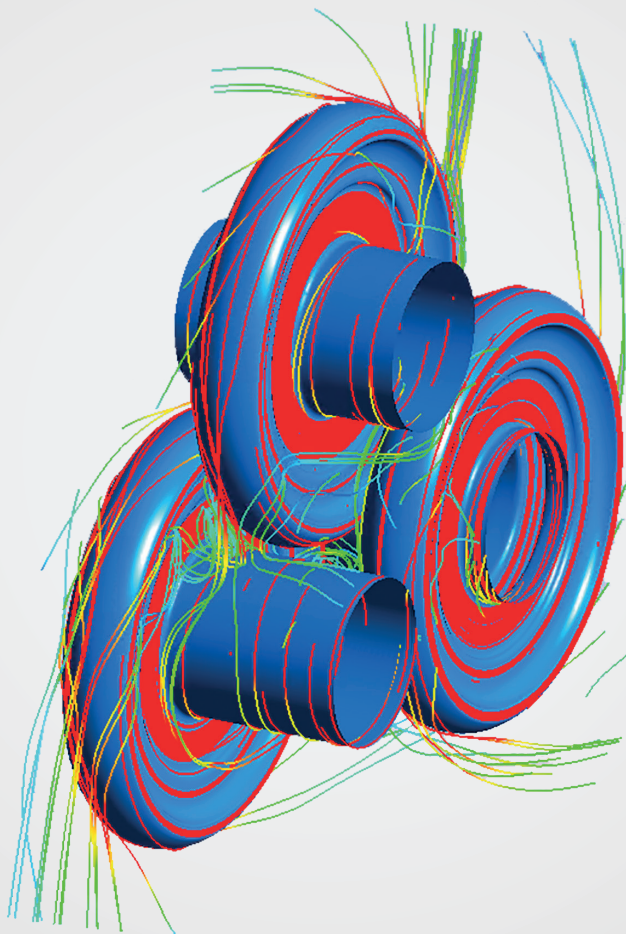
Improved resistance against spin finish

The discs are suitable for all types of spin finish recommended for PU discs by showing an improved resistance.

In case of newly developed spin-finish products in-house testing can be provided.

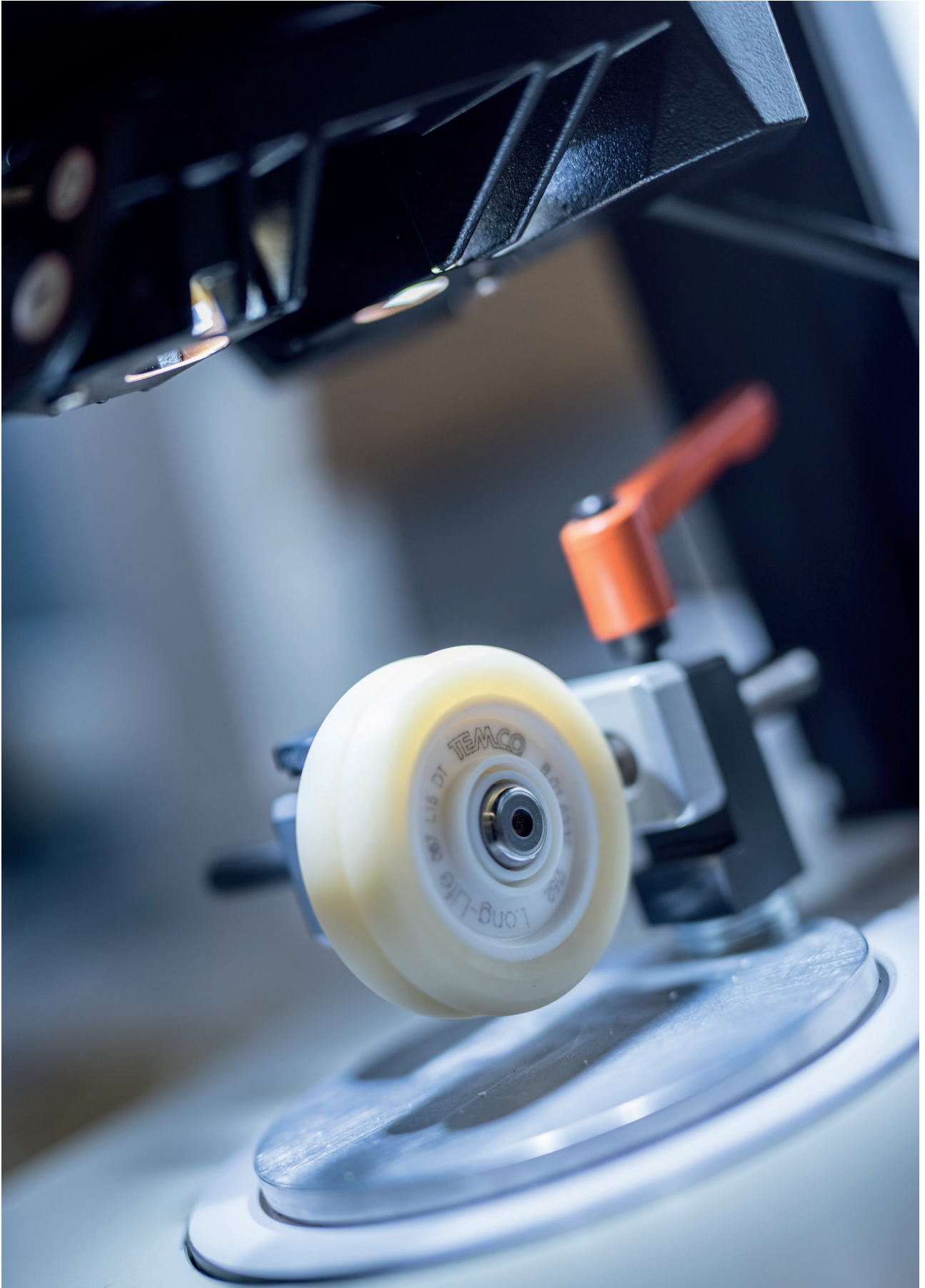
Environmental advantages

State of the art manufacturing technology produces less waste due to higher productivity and sustainable production.



DITF

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TEXTIL+FASERFORSCHUNG





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