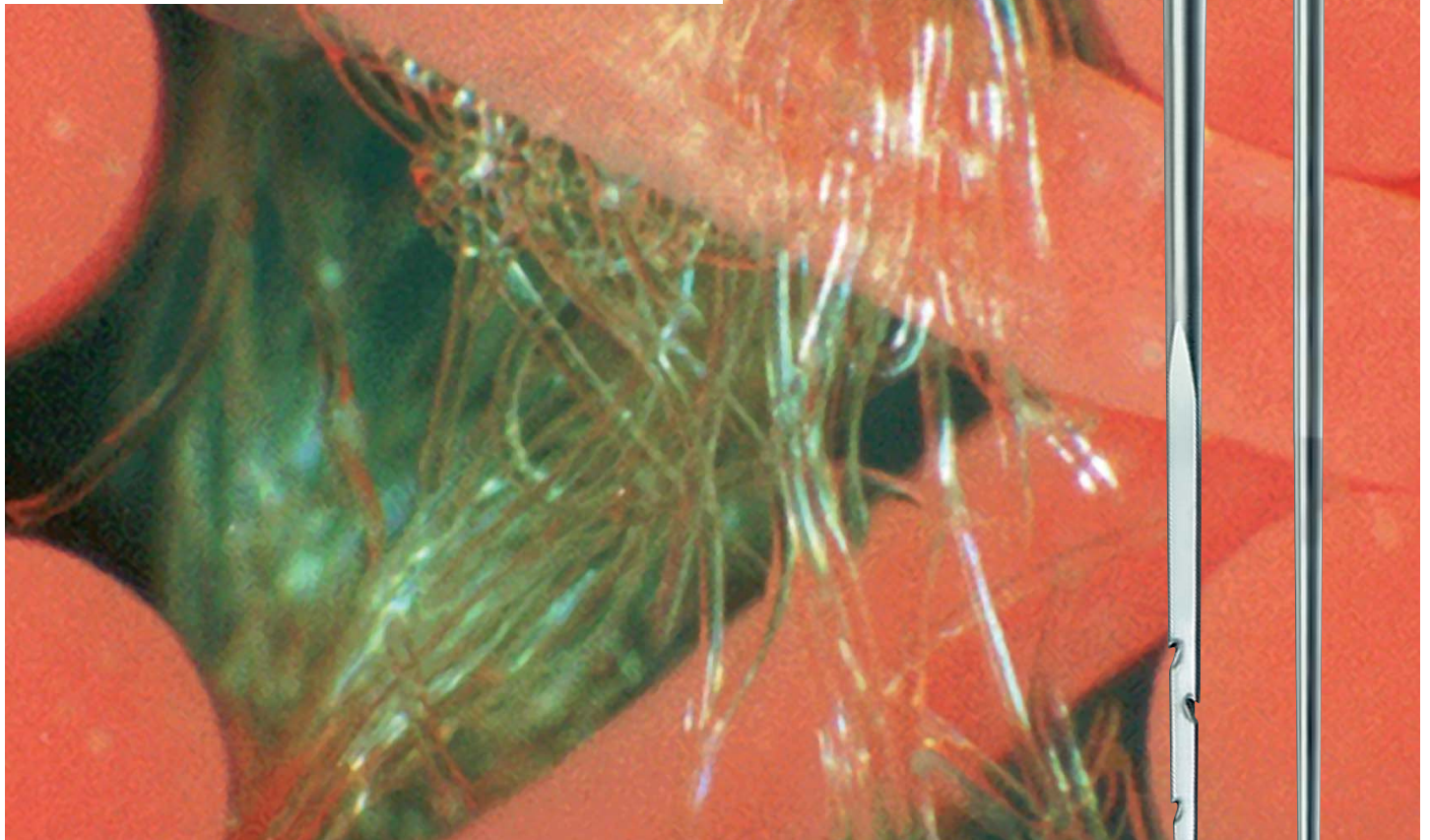


## GEBECON® NEEDLES

HIGH REQUIREMENT PROFILE  
FOR FLEXIBILITY AND BREAKING  
RESISTANCE



**The development of the Groz-Beckert GEBECON® needle now puts this innovative, unique and patented technology at our customers' disposal. More uniform compactness combined with a minimised risk of breakage and controlled web draft, even at extremely high production speeds, are just a few of the most important technological features of the new GEBECON® needles.**

Groz-Beckert GEBECON® needles are distinctive for their improved stability over conventional conical needles, despite good needle elasticity. This applies to the coarse-gauge as well as the fine-gauge sector.

Here GEBECON® needles from Groz-Beckert are especially suitable for use in the needling of fine fibres and micro-fibres, particularly where high machine speeds are involved. Thanks to their high needle elasticity, GEBECON® needles prove themselves especially well whenever extreme challenges have to be mastered.

Exceptionally good flexibility and breakage resistance, results in as yet unrivalled needle bending movements in the world of felting technology.

## A TECHNOLOGICAL LEAP AHEAD IN NEEDLE PRODUCTION

At Groz-Beckert, felting needles are being constantly further developed, and this has resulted in the creation of an independent needle group with conical geometry. Users benefit from the entirely new needle design, especially where the point area and working part are concerned.

The long, slim, fully conical shape of the GEBECON® needle is especially obvious when compared here with the shape of a conventionally designed needle.

Conical solutions have established themselves for all pre-needling applications, especially where ultra-fine fibres or micro-fibres are concerned. They keep the risk of needle breakage to a minimum.

### Typical areas of application for Groz-Beckert GEBECON® needles:

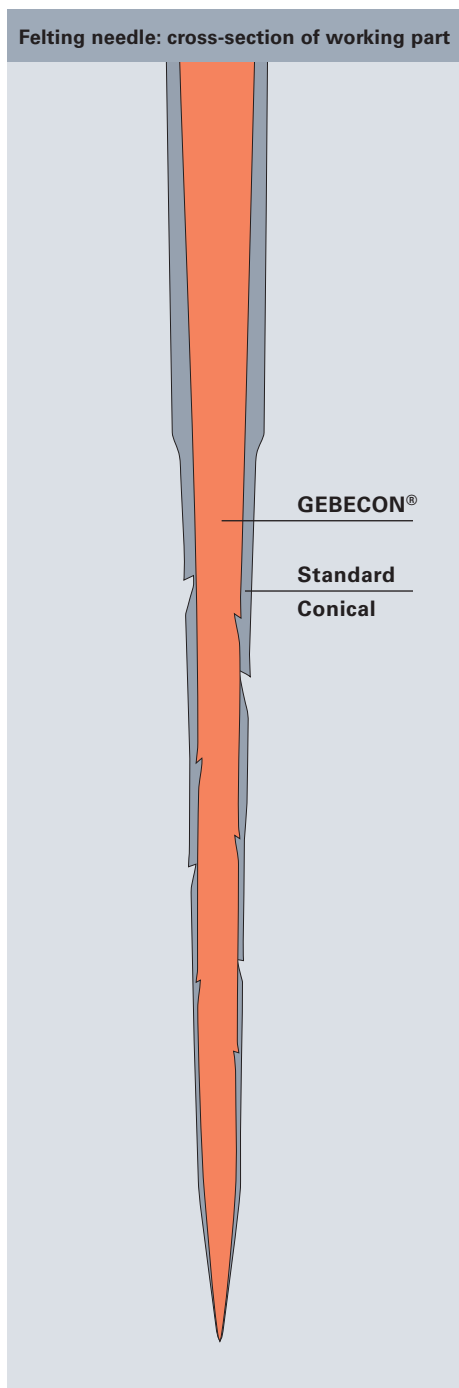
- Synthetic leather production
- Needling of high-tenacity fibres, e.g. aramid fibres with high elasticity content
- High-speed needling and waste-fibre-needling with improved, homogenous vertical fibre transportation and less soiling of needles, needle boards, bed plates and stripper plates

### Benefits of Groz-Beckert GEBECON®

#### Sample Needles:

GEBECON® XL  
15 x 19 x 32 x 3 1/2 R222 G 530G7

GEBECON®- XL<sup>P</sup> (patented)  
15 x 32 x 40 x 3 R222 G 530P7



### needles in relation to standard needles:

- Uniform bending strength with high flexibility
  - Reduced web draft and needle breakage
  - Enables faster production-line speeds
- Peak loads are intercepted by improved dynamic properties, thus minimizing risk of needle breakage
- Less soiling during needling of waste fibres
  - No regular surfaces for dirt adhesion
  - Gentle on fibres, resulting in less dust and fibre fluff thanks to improved needle flexibility
- New, optimized design of needle tip and working part
  - Easier handling due to use of same needle fineness on several machines
  - Improved physical product properties
  - Lower machine wear due to reduced penetration
  - Minimal surface marking even with deep penetration
  - Considerably reduced risk of delamination even with heavy material weights
- Higher deflection ratio in load test compared with previous conical-needle solutions

GROZ-BECKERT KG

PO Box 10 02 49

72423 Albstadt, Germany

Phone +49 74 31 10-0

Fax +49 74 31 10-20 88

contact@groz-beckert.com

www.groz-beckert.com

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