



# Compound needles for warp knitting machines

The product range encompasses compound needles for technical textiles, home textiles and for the shoe and apparel industry. Gauges vary from E1 to E50.

# GROZ-BECKERT

## Groz-Beckert KG

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### Customer benefits

- Flawless fabric
- Uniform loop structure
- Reduced downtime
- Highest productivity
- Long service life of compound needles
- Flexibility of textile application
- Facility for mixing product batches
- Variant diversity due to the world's biggest product spectrum

Example of a compound needle designation



Example of a designation of a compound needle with special protection against wear, identifiable by the suffixes G 101 to G 199



### Technical features

#### Yarn-friendly surface

Flawless yarn gliding action for a uniform fabric appearance

#### Precision and dimensional stability

Closest production tolerances guarantee facility for mixing production batches.

#### Ultra-precise slot execution

Optimum interaction between needle and closer module

#### Working length

Minimum production variance guarantees uniform loops.

### Additional optional features

#### Yarn-friendly surface on the inside arc of the hook

Flawless yarn gliding and lower stress on the hook

#### Yarn-friendly slot edge execution

Long-term prevention of yarn damage

#### Special slot execution

Reliable loop formation and a long service life, even under high thread tension

#### Hook with roof-shaped edge

Reliable loop formation, even under high thread tension

#### Hook pressed inside and outside

Maximum thread clearance for reliable loop formation and increased hook stability

#### Conical hook

Increased hook stability and greater thread clearance for the greatest possible application range

#### Asymmetrical hook tip

Maximum thread clearance for reliable loop formation

#### Special protection against wear

Increased protection against needle wear, specifically for production at high speeds and when using abrasive yarns

#### Plastic reinforcement

Increased lateral stability, enabling higher gauges up to E50



## Variants

Depending on the machine model, Groz-Beckert offers a variety of geometries:

Hook geometry	Shank geometry	Mounting options
 <p>Round hook</p>	 <p>Straight shank</p>	 <p>Needle butt</p>
 <p>Pointed hook</p>	 <p>Angled shank:</p> <ul style="list-style-type: none"> <li>• Single downward or upward angle</li> </ul>	 <p>Mounting groove</p>
 <p>Asymmetric tip</p>	 <ul style="list-style-type: none"> <li>• Double angle</li> </ul>	 <p>Casting notches</p>
 <p>Hook pressed inside and outside</p>		 <p>Combination of needle butt and casting notches</p>

## Service:

- Global sales network for fast delivery and reduced warehousing costs
- Research and development – development partnership from prototype to market introduction
- Process optimization by laboratory services
- Technical knowledge and understanding of quality with training offered by the Groz-Beckert Academy
- Further information under [www.groz-beckert.com](http://www.groz-beckert.com) and in the “myGrozBeckert” app