



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

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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"> • Single downward or upward angle 	 <p>Mounting groove</p>
 <p>Asymmetric tip</p>	<ul style="list-style-type: none"> • Double angle 	 <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 and in the “myGrozBeckert” app