



Patent needles for crochet knitting machines

Patent needles from the Groz-Beckert range are particularly suited for producing high-quality warp-knitted fabrics. The gauges range from E1 to E24.

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Your benefits:

- High stiffness, especially at the selvage
- High process reliability
- Flexibility in the textile application
- Reduced downtime
- Uniform loop structure
- High productivity
- Long service life of the needle
- Miscibility of the product batches
- Large variety due to the widest product range in the world

Technical features

Perfect edge rounding

Prevents capillary breakage and guarantees optimal loop formation

Surface optimally suited for yarn gliding

Fault-free yarn gliding for uniform loops

Precision and dimensional stability

Tightest production tolerances for guaranteed miscibility of production batches

Working length

Minimal manufacturing tolerance for guaranteed uniform loop formation

Additional, optional features

Conical hook

Increased hook stability and larger thread clearance for the widest possible range of applications

Lateral throat

Optimal gliding of the yarn behind the tip and safe insertion of the warp thread

Chrome plating

Increased hardness, especially for high-speed production and when using abrasive yarns

Sample designation of a Patent needle

Sample designation of a chrome-plated Patent needle (wear protection identifiable by the suffixes G 101 to G 199)



Available versions of the Patent needle

Hook geometry



Extended throat

Easy insertion of the thread behind the tip from different positions



Hump front

Easy gliding of the loop over the hook with minimal resistance



Hump rear

To stop fluttering threads (with low yarn tension)



Pointed hook

For penetrating textile surfaces

Cross section

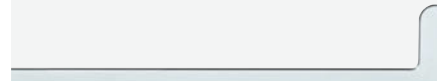


L-cross section: creates maximum space for inserting the warp thread ; suitable for normal stress



U-cross section: improves the modulus of resistance for increased stress, but also reduces the space for inserting the warp thread

Mounting options



Needle butt



Casting notches

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