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.

Your benefits:
- High stiffness, especially at the selvedge
- 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

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

Sample designation of a Patent needle

GROZ-BECKERT®
50 528861 B1K658 Patent 73.71G 23

GROZ-BECKERT®
50 529191 B1K658 Patent 73.71G 123

Groz-Beckert KG
Parkweg 2, 72458 Albstadt, Germany
Phone +49 7431 10-0, Fax +49 7431 10-2777
contact-knitting@groz-beckert.com
www.groz-beckert.com
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

The depictions provided of our products are not to scale and are intended for illustrative purposes only. Consequently they make no claim to be an accurate representation of the original. ® = Registered trademark of the Groz-Beckert company group. © = This publication is copyrighted. All rights reserved, in particular the right of duplication, distribution and translation. This publication or any parts thereof may not be reproduced or stored, processed, duplicated or distributed using electronic systems in any form or by any means whatsoever without the express written consent of Groz-Beckert.