

PATENT NEEDLES FROM GROZ-BECKERT
GUARANTEE OPTIMUM PROCESS
RELIABILITY AND EVEN WARP KNIT FABRIC



The manufacture of quality crochet warp knit fabrics calls for the optimum interaction between machine, needles and yarns.

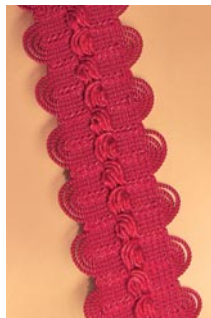
Selvedge needles, in particular, are subject to high levels of stress in modern crochet knitting machines, resulting in problems due to lateral flexing, excessive wear and machine standing idle.

The solution developed by Groz-Beckert involves the use of flatstock rather than wire shank forms.

Here, the increase in the shank rigidity, the more uniform punched shape and the superior surface polish in the stitch-forming area guarantee an absolutely even, uniform fabric quality.

Patent needles from Groz-Beckert:

- Higher stability
- Maximum uniformity
- High process reliability
- Improved fabric quality
- Enhanced productivity
- Reduced needle consumption
- Compatibility with existing wire butt types

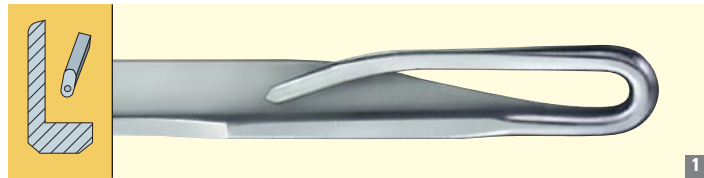


PATENT NEEDLE VARIANTS AND FEATURES

AS VARIED AS THE REQUIREMENTS

L-milling (Pic.1)

Provides the maximum possible space for the insertion of the warp yarn and is suitable for normal use.



U-milling (Pic.2)

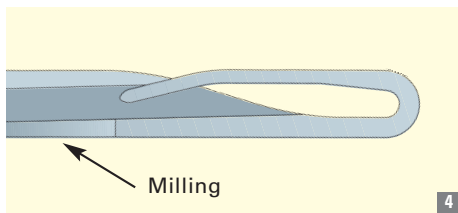
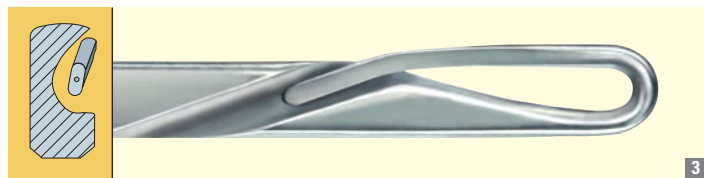
Improves rigidity and, in turn, ability to withstand stress, but reduces the amount of space for the insertion of the warp yarn.



Concave groove (Pic.3)

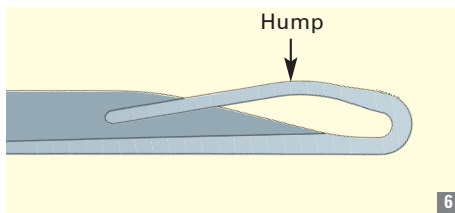
in combination with the conical execution of the hook ensures a maximum durability of the loop forming part.

(PATENT NO. DE 19517602 C1)

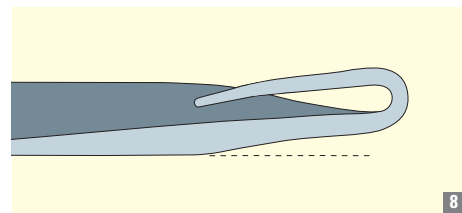


Concave side milling facilitates insertion of the yarn behind the beard and ensures reliable loop formation of the warp yarn.

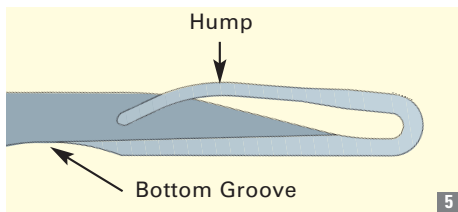
Extended milling permits the yarn to be inserted more easily, behind the beard, from different positions.



Hump towards the front: loop slides smoothly over the head with little resistance.

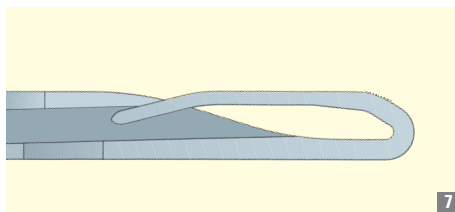


High-curved head: special configuration for narrow fabric looms (with short beard and conical head).

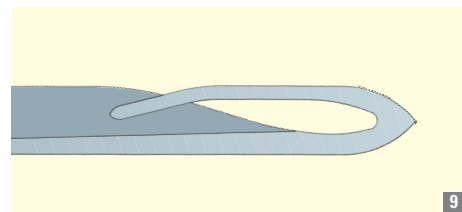


The groove positioned on the underside relieves stress on the loops.

Hump to the rear: acts as a buffer for yarn flutter caused by inadequate yarn infeed tension.



Reversed plating head extends pattern-making capabilities.



Pointed head combined with side tapering of the beard side: permits piercing of fabrics.

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