



Maximum resilience thanks to the conical hook

For trouble-free knitting of yarn qualities with slubs and knots or fancy yarns, a special hook geometry is required.

Application

During the knitting process, the hook and, in particular the base of the hook, are subject to great strain. If additional stress is added in the form of knots, thick slubs, double and multiple threads, the hook can bend or break when the elasticity limit is exceeded. To meet this challenge, Groz-Beckert has developed the conical hook.

Advantages

- Reduced needle consumption
- Higher process reliability
- Improved cast-off behavior

Properties

The special shape of the conical hook provides not only a higher hook stability but also a larger thread clearance. The small diameter of the hook tip and the slimer latch head have a positive effect during loop cast off.

Benefits

in terms of profitability and quality:

- Higher productivity
- Uniform loops and flawless fabric quality

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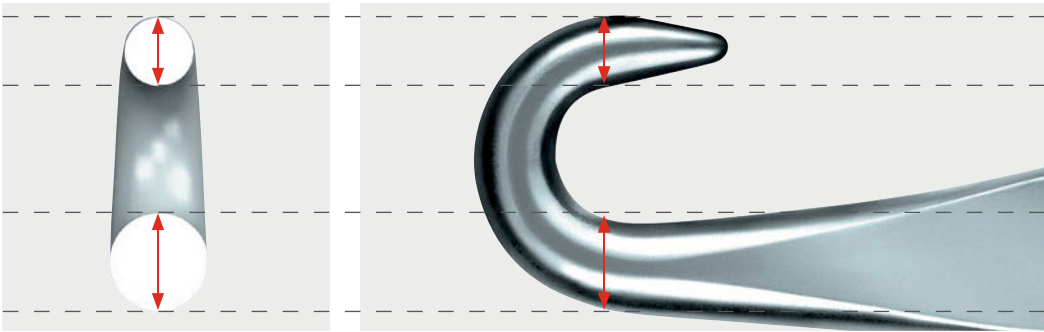
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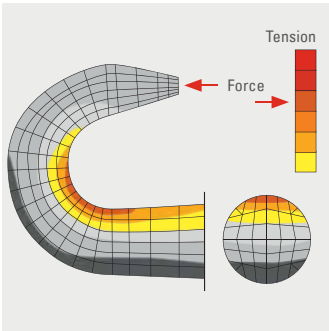
Conical hook

The conical hook has an enlarged cross-section at the base of the hook and tapers continually towards the hook tip.

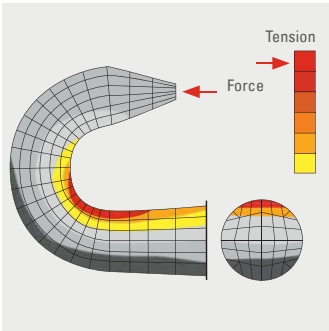


Conical hook shape

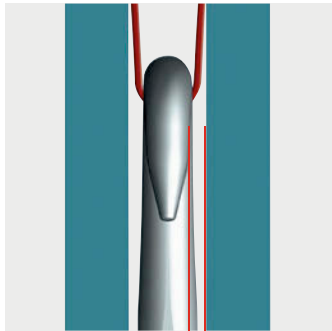
With the conical hook shape Groz-Beckert has achieved both a higher hook stability and a larger thread clearance inside the hook.



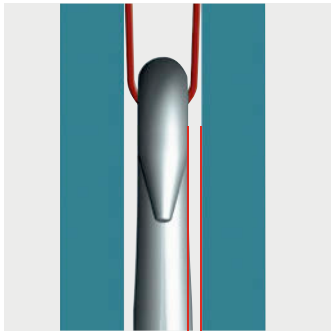
Conical hook, round cross-section



Cylindrical hook, round cross-section



Conical hook, larger space inside the hook and increased thread clearance



Cylindrical hook

Thanks to the special geometry of the conical hook, there is a larger space for the thread between the loop-forming elements ($a_2 > a_1$).

Service

- Research and development – development partnership from prototype to market introduction
- Technical knowledge and better understanding of quality with training offered by the Groz-Beckert Academy
- Further information under www.groz-beckert.com and in the “myGrozBeckert” app