Groz-Beckert® dur

For longer needle lifetime and improved corrosion resistance

GROZ-BECKERT

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Characteristics:

- Unchanged needle geometry
- New base material combined with patented manufacturing process
- Needle renamed by adding the branding phrase “dur”

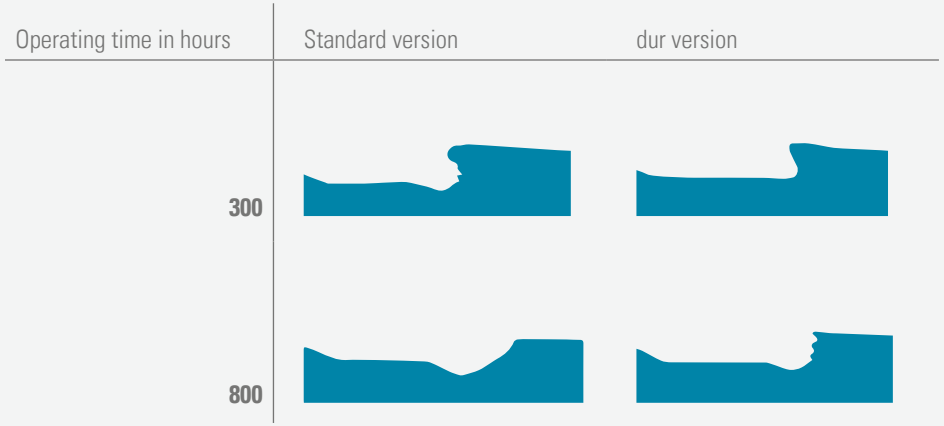
Benefits:

- Higher wear resistance
- Improved corrosion resistance: corrosion comparison in field tests over 100 days shows significant improvement over the standard version.

Wear resistance

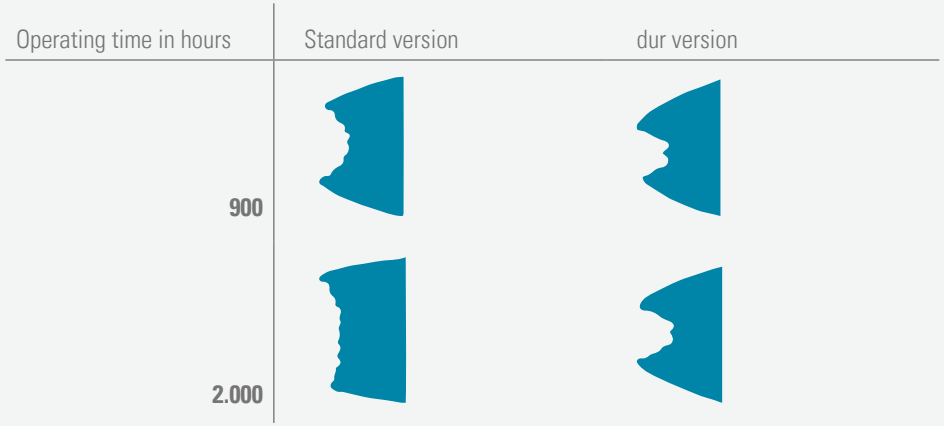
Felting needle

Original shape of an unused barb



Fork needle

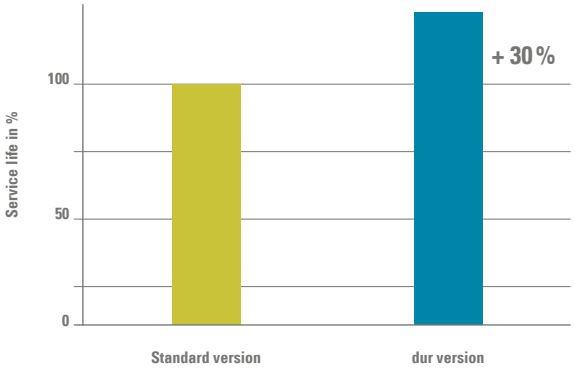
Original shape of an unused fork



More benefits

Process optimization

Thanks to its harder surface, the dur version needle has a 30 % higher lifetime compared to the standard version with the same geometry.



This benefit however can only be fully realized if the needle rotation system is adapted accordingly. If the rotation system is adjusted for this new material, the needles can remain in the board up to 30 % longer than with the standard material, and the product properties remain the same over a longer period of time.

Increase in efficiency

When continuing to follow the original needle rotation system, needling efficiency increases using the new "dur" version. This is due to the improved abrasion resistance of the new material compared to the standard version, over the same timeframe.

Barbs and forks, produced with the "dur" technology, maintain their original shape longer compared to the standard version and are able to provide the same efficiency over a longer period of time. As a result, a lower punch density may be utilized resulting in increased productivity.