Predetermined breaking groove in the needle shank

Technical solution for avoiding damage to cams and cylinders

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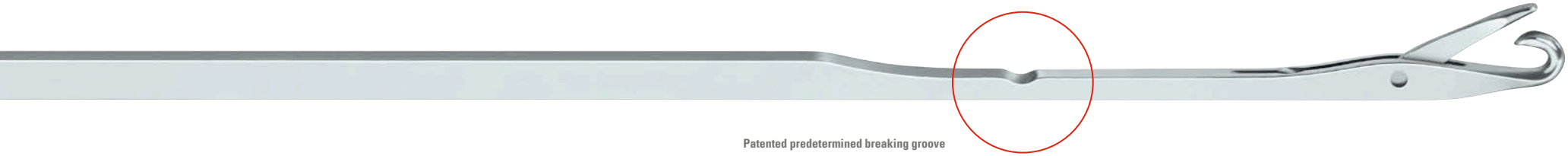
Application

Latch damage or latch failure on needles that have reached their wear limit can mean that yarn loops are not formed correctly and gather on the needle until the needle shank is overloaded causing the needles to bend in the cylinder.

These needles can jam between the cylinder and cam track, which poses a risk of consequential damage on the cylinder and the the needle cams.

To avoid this, Groz-Beckert has developed a solution specifically for use in high speed machines: Needles with a predetermined breaking groove in the needle shank. The predetermined breaking groove is positioned behind the loop sliding area and ensures that the needle breaks in a controlled way when overloaded. This reduces the risk of costly damage to the cylinders and cams even at high machine speeds.



Patented predetermined breaking groove
Groz-Beckert Patent EP 3690095

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Technical features

Predetermined breaking groove behind the loop sliding area

Benefits

- Avoid machine damage
- Avoid expensive repairs

Benefit

- Reduced machine downtimes
- Increased profitability

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