



# Ideal execution and latch bearing

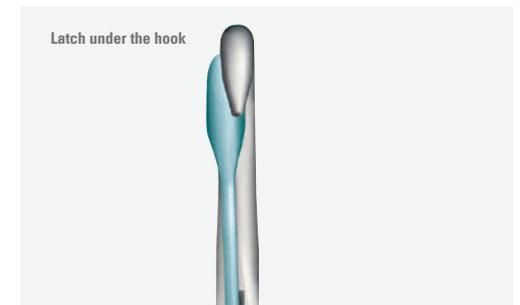
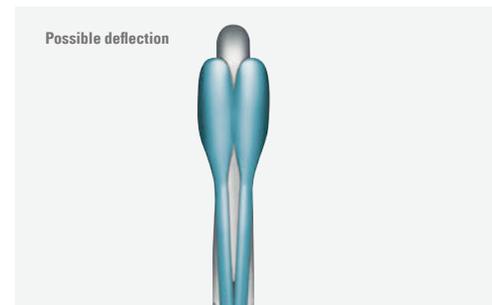
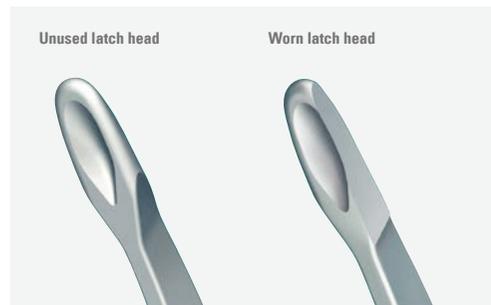
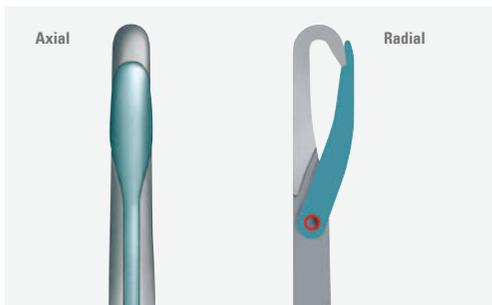
Minimal initial latch play guarantees long service life, maximum machine speeds and process security in production.

# GROZ-BECKERT

## Groz-Beckert KG

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### Precise latch guidance of Groz-Beckert needles – for optimum results



#### Minimal latch play

Exact execution of the latch fixing, and minimal play of the latch in axial and radial direction, guarantee ideal latch guidance.

Excessive axial latch play can cause the latch to be deflected sideways to such an extent that the side of the latch head contacts the sinkers.

Consequences: Yarn damages, latch spoon breakages and fabric defects.

#### Precise latch guidance

If the latch play is too wide, the latch does not hit the hook in its center but deflects laterally.

Consequences: Increased wear to the latch spoon, latch shank and needle hook resulting in a significantly lower service life of the needle.

In the extreme case the latch deflects to an extent that the latch goes under the hook.

Consequences: Fabric defects, machine stops, and hook breakages.



## Latch executions

If the latch strikes the hook at speeds of up to 200 kph, a high impact force is generated. In order to distribute this force over the largest possible area, Groz-Beckert needles have a precisely fitting latch shapes. This reduces surface pressure and consequently diminishes the amount of wear.

## Application

The spoon latch is the most versatile of the latch executions.



Latch with spoon

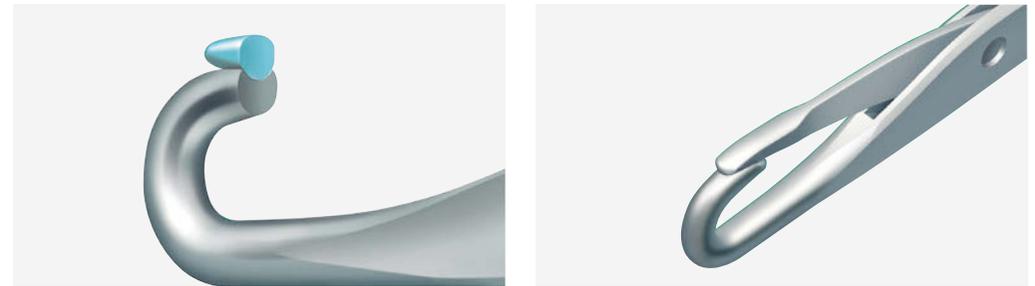
Characteristic	Advantages	Customer benefits
Spoon-shaped latch head	Ideal covering of the hook Large contact surface of the latch on the hook	Excellent plating results • Reduced risk of fabric defects • Long service life • Top process security

## 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](http://www.groz-beckert.com) and in the “myGrozBeckert” app

## Application

The prim latch execution with a groove in the hook is particularly suitable for high performance circular knitting machines, seamless bodysize machines and hosiery machines.



Prim latch

Characteristic	Advantages	Customer benefits
Slim, cylindrical latch head	More space between needle latch and sinker No sharp-edged rims of the latch spoon, even after long usage	• Longer lifecycle • Ideal for fine gauges Prevention of filament and elastane cutting
	Loop-friendly transition between latch shank and latch head.	Yarn-friendly loop formation