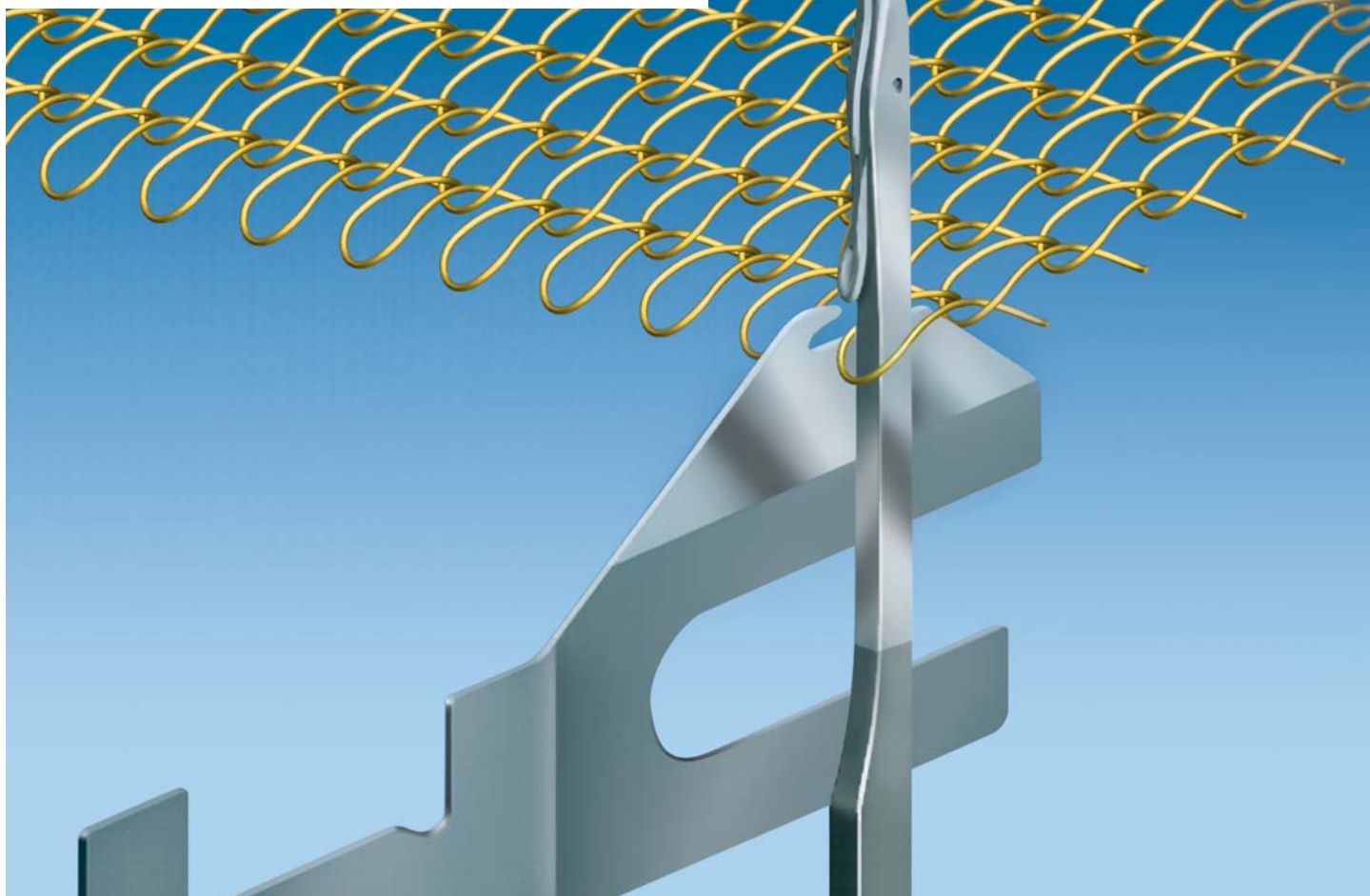


OPTILOOP® COATING

INCREASES THE PERFORMANCE OF KNITTING SYSTEMS AND MACHINE COMPONENTS



Fashion often changes yarns, but does not usually take the loop forming elements of machines into consideration.

Highly twisted, abrasive yarns made of polyester, acetate and viscose cut into loop forming parts in just a short time. Technical textiles based on copper, steel, silver wire, glass fibre, carbon fibre and carbon are also becoming increasingly important in the textiles industry.

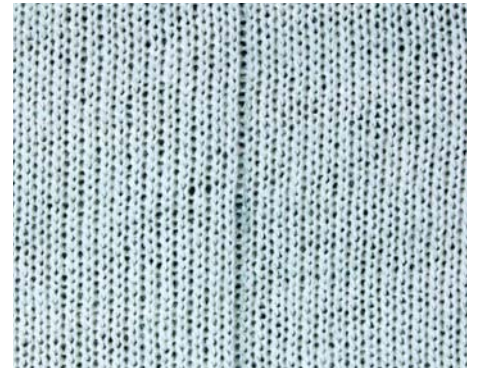
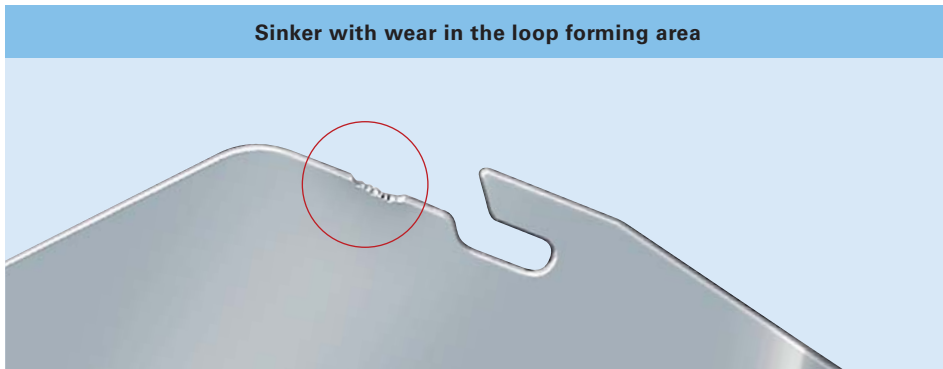
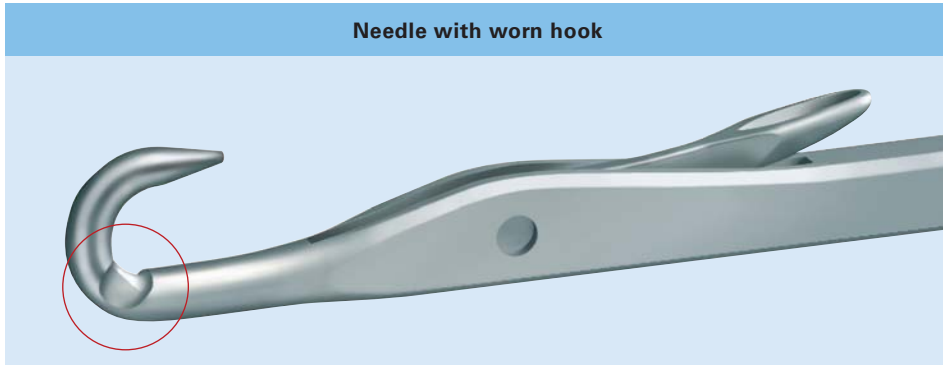
To overcome these problems, Groz-Beckert developed its **OPTILOOP®** coating.

The **OPTILOOP®** coating significantly increases the wear resistance of loop forming parts in yarn contact areas.

As a consequence, the following benefits can be expected in the knitting process:

- Better processing of inflexible and abrasive yarns
- Increased machine utilization ratio
- Improvement of the stability of the knitting process
- Improved fabric appearance
- More uniform loop formation

EFFECTS OF WEAR IN LOOP FORMING KNITTING ELEMENTS



Even small nicks made by yarn in the hook of needles or cuts in the loop-forming edge of a knock-over sinker can affect the quality of the knitted fabric.

Depending on the gauge, fineness, yarn tension, knitting construction and machine set-ups the following problems can occur:

- Misplicing
- Formation of lines
- Yarn breakage, holes in the fabric
- Yarn fraying

CHARACTERISTICS OF THE OPTILOOP® COATING

The **OPTILOOP®** coating is a locally applied, extremely wear resistant surface coating developed by Groz-Beckert. Parts with this coating have a significantly longer service life in comparison with parts that have been locally hardened, particularly those used in the yarn contact areas.

For the identification of these extremely wear resistant knitting parts in **OPTILOOP®** quality, the parts designation includes the letters **OL**.

Example:	
Standard version	Hofa-Spec. 70.41 G 0304 SNK 37.20 G 1
OPTILOOP® quality	Hofa-Spec.-OL 70.41 G 0304 SNK-OL 37.20 G 101