



# The special application needle SAN® 6

For sewing applications that require high needle stability and process security

## GROZ-BECKERT

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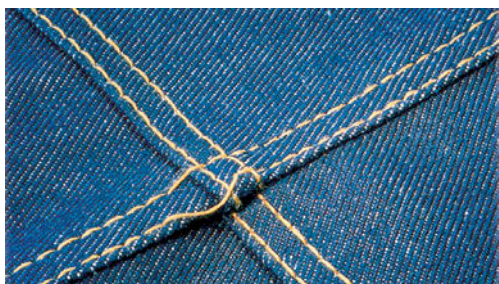
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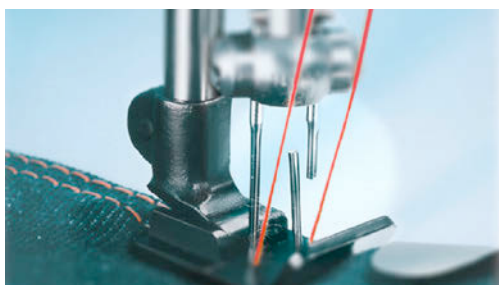
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### High security against skipped stitches and needle breakage

Skipped stitches and needle breakage often occur when the needle is heavily deflected when stitching over cross seams. The high penetration forces that occur when sewing medium to heavy materials (e.g. denim and work clothing) increase this risk even further.



Skipped stitches – particularly when stitching over cross-seams

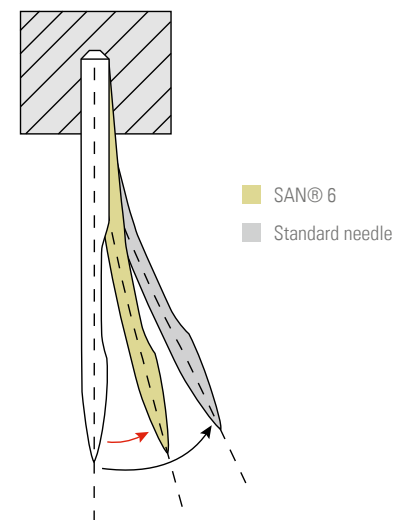


Needle breakage – if the needle is not stable enough



### Solution:

Thanks to the Loop Control® geometry and a special reinforcement in the blade area, the SAN® 6 needle shows a higher stability and thus a higher deflection resistance. This helps to avoid skipped stitches and needle breakage.



Deflection resistance



## High security against skipped stitches and thread breakage with the special application needle SAN® 6

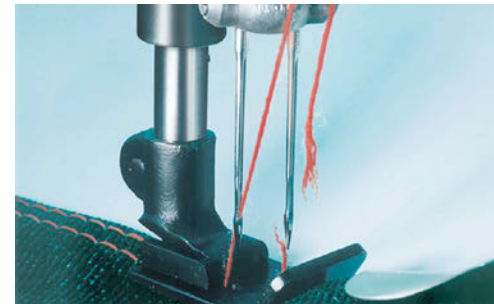
Thick threads are often required for sewing medium-weight and heavy materials. This can mean that the thread can not slide easily through the eye. This can result in skipped stitches and thread breakage.

**Solution:** The SAN® 6 needle has a larger eye, which enables the thread to slide through smoothly. Thicker threads can also be used without increasing the needle size. The Loop Control® geometry also offers increased security against skipped stitches.

## High wear protection with the special application needle SAN® 6

Processing medium-weight and heavy materials places high levels of stress on the sewing machine needle. Signs of wear develop quickly due to the thick and dense material the needle has to penetrate – particularly in the point area.

**Solution:** The SAN® 6 needle is coated with titanium nitride (=GEBEDUR®). This coating has a higher surface hardness than standard needles, thus providing better protection against point wear.



Thread breakage

## The advantages of the SAN® 6 needle at a glance:

- High security against skipped stitches and thread breakage
- Less needle breakage due to increased stability
- Thicker sewing threads can be used
- High protection against point damages thanks to the GEBEDUR® coating
- Low needle consumption due to longer lifetime
- High process security

## The SAN® 6 range

Needle system	Size range						
	90	100	110	120	125	130	140
62x57 SAN® 6 GEBEDUR®			•		•		•
UY 128 SAN® 6 GEBEDUR®		•	•	•	•		•
UY 128 SAN® 6 FFG GEBEDUR®			•	•		•	
134 SAN® 6 GEBEDUR®	•	•	•	•	•		•
135x17 SAN® 6 GEBEDUR®			•		•		•
149x5 SAN® 6 GEBEDUR®					•	•	•
UY 180 SAN® 6 GEBEDUR®					•		•
1738 SAN® 6 GEBEDUR®	•	•	•				