Special application needle SAN™ 17

For sewing applications where the needle gets very hot

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Causes of needle heating

In sewing applications at high speeds or when sewing dense materials or several layers of material, the high level of friction between the sewing machine needle and the sewing material can lead to significant heating of the needle. In the worst case, this can cause the sewing thread to melt when the machine stops. In addition, the significant heat development can cause sticking to the needle and melting of the stitch hole, which can damage the material and result in an unclean look of the seam.

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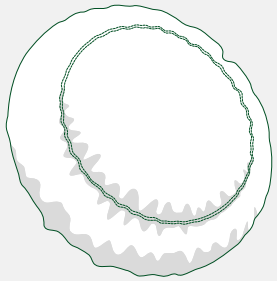
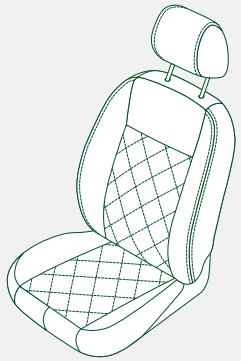
Applications where needle heating occurs more frequently:

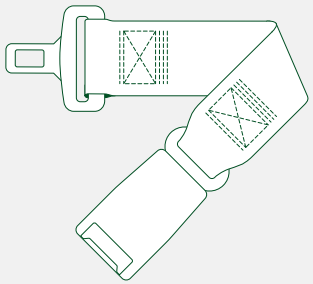
- Bartack applications
- Attaching labels
- Sewing dense materials
- Sewing multiple layers of material
- Sewing at high sewing speeds



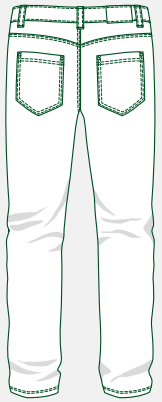
Airbags



Car seats



Safety belts



Jeans

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The geometry of the special application needle SAN™ 17

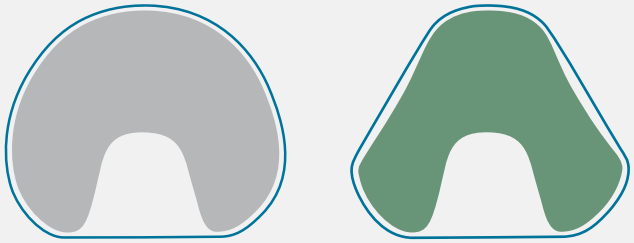
The special application needle SAN™ 17 has a patented blade geometry that offers advantages over the geometry of a standard needle with regard to the degree of needle heating. Due to its special geometry, the SAN™ 17 needle has a smaller contact area with the material to be sewn. As a result, the friction between the needle and the sewing material is lower, resulting in less heat. The risk of the aforementioned problems occurring is thus significantly reduced or can be ruled out in many cases.

Comparison of the blade cross-section of the SAN™ 17 needle with that of a standard needle

1. Outer contour:

The area marked in gray is does not exist in the case of the SAN™ 17 needle.

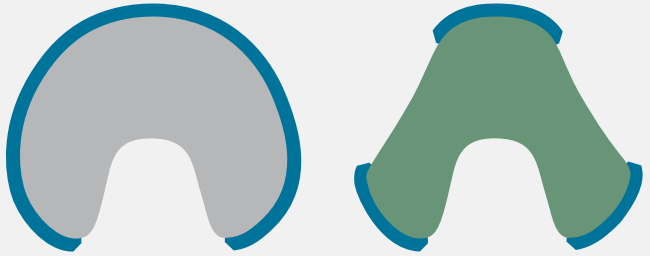
2. Wrapping with sewing material (blue):



Standard needle

SAN™ 17 needle

3. Contact zone with sewing material (blue):



Standard needle

SAN™ 17 needle

The advantages of the SAN™ 17 needle at a glance:

- Reduced friction and thus reduced heat development due to the smaller contact area
- Gentle treatment of thread and material
- Reduced risk of thread breakage when the machine stops
- Reduced machine downtime
- High process reliability