



# Mobiltech

Recommendations for perfect seams in automotive interiors

# GROZ-BECKERT

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### Needle point styles for the desired seam appearance in leather

#### LR-point

**Application:**

- Decorative lockstitch seams in soft to medium-hard leather
- For all types of leather

#### LL-point

**Application:**

- Straight seams with uniform closed appearance
- For nearly all common types of leather

#### S-point

**Application:**

- Straight seams with relatively tight stitch formation in leather
- For soft to medium-hard leather
- Seams located directly on an edge

#### SD-point

**Application:**

- Straight seam position (slightly irregular)
- For soft leather (clothing leather)
- For multi-directional applications

Both DH and D points are suitable for medium-hard to hard leather and for medium to long stitches.

### Needle point styles for interior fabrics

#### R-point

**Application:**

- Standard for lockstitch, woven fabrics, coated woven fabrics, artificial leather

#### RG-point

**Application:**

- Standard for chain stitch

#### FFG-point

**Application:**

- For general knitted fabrics, woven fabrics made from cotton and/or synthetic fabrics



## General recommendations for needle sizes and point styles

Material	Point style		Needle size	
	Decorative seams	Joining seams and multi-directional sewing operations	Needle size	Joining seams and multi-directional sewing operations
<b>Leather</b> (with and without foam lining)	<b>LR, LL, S</b> (defined seam positions), <b>R, RG, SD, DH</b>	<b>R, SD, RG<sup>1</sup></b>	<b>Nm 110–140</b>	<b>Nm 90–110</b> (depending on the sewing thread size)
<b>Artificial leather</b> (with and without foam lining)	<b>LR, LL, S</b> (defined seam positions), <b>R, RG, SD, DH</b>	<b>R, SD, RG</b>	<b>Nm 110–140</b>	<b>Nm 90–110</b> (depending on the sewing thread size)
Material combination <b>leather/artificial leather</b> (with and without foam lining)	<b>LR, LL, S</b> (defined seam positions), <b>R, RG, SD, DH</b>	<b>R, SD, RG</b>	<b>Nm 110–140</b>	<b>Nm 90–110</b> (depending on the sewing thread size)
Material combination <b>woven/felt</b>	<b>R, RG</b>		<b>Nm 110–140</b> (depending on the material and sewing thread size)	
Material combination <b>leather/felt + cardboard/felt</b>	<b>DH, D</b>		<b>Nm 110–140</b> (depending on the material and sewing thread size)	
Material combinations <b>leather/textile + artificial leather/ textile</b>	<b>R, RG, FFG</b>		<b>Nm 90–120</b> (depending on the material and sewing thread size)	
<b>Woven fabrics</b> (with and without foam lining)	<b>R, RG, FFG</b>		<b>Nm 90–120</b> (depending on the material and sewing thread size)	
<b>Knit fabrics (warp and weft knit)</b> with and without foam lining	<b>RG, FFG</b>		<b>Nm 90–110</b> (depending on the material and sewing thread size)	
<b>Artificial leather</b>	<b>R, RG<sup>2</sup></b>		<b>Nm 120–140</b>	
<b>Airbag</b>	<b>R, RG<sup>2</sup></b>		<b>Nm 140–180</b> (depending on the material and sewing thread size)	
<b>Seat belts</b>	<b>R, RG<sup>2</sup></b>		<b>Nm 160–230</b> (depending on the material and sewing thread size)	
<b>Floor mats</b> (edged)	<b>R, RG<sup>2</sup></b>		<b>Nm 140–230</b> (depending on the material and sewing thread size)	

<sup>1</sup> Recommendation: Use the SAN® 12 needle    <sup>2</sup> Recommendation: Use the SAN® 5 needle



Leather



Artificial leather



Combination of woven / felt leather



Combination of woven / felt



Woven fabric



Knit fabric



Plastic piping



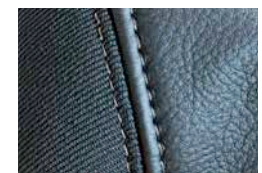
Airbag



Seat belts



Floor mats



Combination of leather / textile