



1. The Art of Schiffli: A Grand Legacy

Schiffli embroidery is the sophisticated art of creating intricate, lace-like patterns on a massive scale. The term "Schiffli" is a charming Swiss-German word for "little boat," which perfectly describes the unique boat-shaped shuttle used in these machines since their invention in the late 19th century. While traditional sewing is about joining pieces together, Schiffli is a purely decorative celebration of textile design.

1.1 The Giant Schiffli Machine

These machines are the titans of the textile world, often stretching over 30 yards in length. Unlike standard setups, a Schiffli machine holds the fabric vertically and uses up to 2,200 needles simultaneously to embroider identical designs across the entire fabric width.

1.2 Modern Masterpieces

Today, Schiffli is used to create everything from delicate bridal gowns and luxury lingerie to ornate home curtains and tablecloths. Its ability to combine fine detailing with high-speed production makes it essential for high-volume fashion.

2. Choosing Your Beissel Needle System

Because Schiffli machines are built by different legendary manufacturers, your choice of needle must match the machine’s specific design.

2.1 Systems for Every Machine

Beissel offers a precision-matched range for all major Schiffli systems:

- **S-Systems:** Optimized for machines made by **Saurer**.
- **L-Systems:** Specially designed for **Lässer** machines.
- **Other Industrial Systems:** We also provide high-performance solutions for **ZSK** and **Zangs** platforms.

2.2 Specialized Needle Variations

To handle decorative threads or 3D effects, we offer specialized needle variants:

- **SA (Special Application):** Features an extra-wide eye to allow thick, ornamental threads to glide through without shredding.
- **TOP Needles:** These are built with extended lengths for specific applications that require deeper penetration.
- **Smart Identification:** To help your team work faster, our needles feature a unique color-coding system to identify size and point style at a glance.

3. Practical Needle Selection Guide

The right needle ensures the beauty of your design while protecting your delicate fabrics.

Fabric Type	Recommended Size (NM)	Recommended Point Style
Gauze / Nonwovens	70 – 100	NORMAL Point (Clean entry)
Standard Woven (Cotton/Poly)	80 – 120	NORMAL Point (Precise)
Coarse Woven & Net	80 – 130	STR Special Point (Strong)

Fabrics		
Fine Knits & Tulle	80 – 110	SUK Medium Ball Point

4. Troubleshooting Schiffli Challenges

With up to 2,200 needles working at once, one small error can lead to costly rework. Use this guide to stay ahead of common hurdles.

4.1 Solving Stitch Problems

- **Material Damage:** Often caused by a needle that is too thick or an incorrect point style. Always use the thinnest needle possible for the design.
- **Thread Breakage:** Ensure your tension is set as low as possible to avoid distortion or snapping, especially when using delicate viscose threads.
- **Skipped Stitches:** Check if the needle is correctly fitted or if the point is worn. Regular inspection of the needle points is essential for quality.

5. The Beissel Advantage: Why the "Beissel Way" Wins

At Beissel, we combine global heritage with modern precision to create needles that handle even the most demanding Schiffli projects with ease.

5.1 Global Standards, Indian Pride

- **The Beissel Advantage: Why We Are Ideal for Denim**

At Beissel, we combine German heritage with modern precision to create needles that handle the toughest or delicate sewing with ease.

- **Advanced Engineering:** Our unique curved CAE design ensures a long life, while the Reinforced Blade prevents needle vibration and deflection during heavy-duty sewing.
- **Milled Groove:** Our precision-milled groove protects the thread during high-speed operations, unlike some designs that can damage thread.
- **Hard Chrome Plating:** Our high-quality hard chrome plating provides rugged

piercing power without the need for synthetic coatings.

- **Global Quality:** We are the only brand offering a full range of Industrial and Home needles, manufactured using German Technology. We conform to German DIN standards, carry the ISO 9002 mark, and comply with all BIS and Legal Metrology standards.
- **Made in India:** Proudly manufactured in a state-of-the-art plant in Southern India.
- **Business Ready:** We offer transparent and stable pricing, expert sewing advice, and GST-compliant invoices.
- **Every needle undergoes 155 quality checks before reaching you.**

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