



Smart
Stitch

Design to Evolve:

Heat-dissolvable threads for easy
disassembly and efficient recycling



What is Smart Stitch™?

With **Smart Stitch™** and **Smart Disassembly™**, heat-activated threads, and thermo-mechanical systems, Resortecs makes repair, secure debranding, transformation, and high-quality material recovery possible without compromising design or performance.

Challenge

Today, products aren't designed to evolve, be repaired efficiently, or be recovered at end-of-life. As EPR/ESPR requirements and mandatory textile collection expand, the question is how to preserve and extend value across the entire lifecycle while protecting brand integrity and cutting waste and cost.

Smart Stitch™ approach

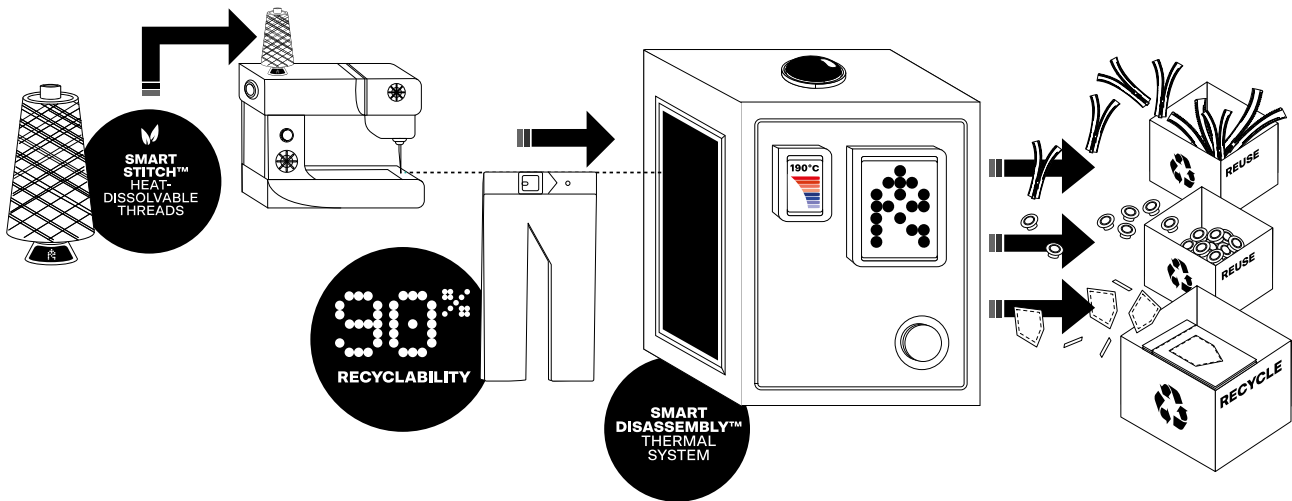
Heat-activated sewing threads, enabling controlled partial and full disassembly, discreet **repair, transformation, and secure debranding**. Engineered by Resortecs produced by AMANN Group.

Smart Disassembly™ approach

Thermo-mechanical separation up to **15× faster** than manual methods with **>90% material recovery** for high-quality recycling, preserving material integrity and value.

Built to disassemble

Products built for repair, delabeling, and disassembly.



How it works

- **Design to Evolve:** We guide eco-design and integrate Smart Stitch™ in targeted seams, with no change to aesthetics or performance.
- **Use and Transform:** Enable repair, remanufacture, debranding, or transformation during the product's life.
- **Recover and Regenerate:** At end-of-life, enable partial or full disassembly; recover materials at high quality.

Use cases

- **Extend Product Life:** Repair without destruction; rework collections or unsold inventory; transform into new products.
- **Protect Brand Integrity:** Remove logos/labels/identifiers; prevent grey-market leakage; control archive, resale, and redistribution.

- **Recover Precious Materials:** Separate complex, multi-material items; preserve purity; enable recycling when needed.

Benefits

- **Preserve Product Value:** extend life via repair and transformation.
- **Protect Brand Equity:** control post-sale circulation; avoid uncontrolled resale or destruction.
- **Unlock New Models:** refurbishment, resale, re-edition, and material recovery.
- **Maintain Design Freedom:** no compromise on creativity, materials, craftsmanship.
- **Turn Compliance into Advantage:** anticipate EPR/ESPR while reinforcing positioning.
- **Strategic Autonomy:** track, recover, and manage textile assets; reduce reliance on virgin imports.