

SORTING SOLUTIONS FOR
TEXTILE RECYCLING
PRECISE – EFFICIENT – SCALABLE

REDWAVE[®]





SORTING SOLUTIONS FOR TEXTILE RECYCLING



More than just a supplier of sorting technologies, **we are pioneers of innovation.**

The landscape of textile recycling is rapidly evolving, with an increasing need for textiles to embrace circularity in the future. However, it's not only the diversity of textile products that presents a challenge, but also contaminants such as buttons, zippers, labels, etc., which complicate recycling processes. To recover recyclable fibers and textiles in a sustainable and profitable manner, it's essential to develop innovative solutions that directly address these challenges. This is where we introduce REDWAVE TEX, the latest sorting system for the textile industry. Not only does this sorting system tackle existing recycling challenges, but it also serves as a catalyst for the future of textile recycling. With our expertise, we guide and support our customers, unlocking new market potential.



What is **REDWAVE TEX** used for?

- Sorting for reuse
- Sorting for recycling
- Inline analysis systems for real-time determination of material composition
- Supporting analysis systems for manual sorting

What materials can the system sort?

From new textiles to used clothing and production waste, REDWAVE TEX is versatile:

- Used clothing collection
- Production waste
- Returns and unsold goods
- Hospital clothing
- And much more

What are the **sorting criteria?**

- Material type and composition (mix)
- Shape and colour
- Detection of foreign objects such as metals, buttons, or objects in pockets
- Detection of multi-materials and applications
- Specific garment types - custom development to meet specific customer requirements
- And much more

REDWAVE TEX

Fully automated sensor-based sorting systems for **whole garments**, sorting them into a **wide range of different categories**.

Technical specifications:

- Outputs: more than 4, typically 10 to 20
- Throughput: up to 4 t/h
- Ejection: by compressed air across the material flow
- Input material size: 100 to 1000 mm

REDWAVE TEX 2i

1

Fully automatic sensor-based sorting machine for sorting **shredded textiles** and **whole garments** into a **small number of categories**.

Technical specifications:

- Outputs: 2 to 3 or 4 to 6 partial streams
- Throughput: up to 16 t/h
- Ejection: by compressed air above and below the material flow
- Input material size: 40 to 500 mm

2

Fully automatic sensor-based sorting machine for sorting **small parts** (e.g., shredded shoes sorted into categories such as rubber, various types of plastics, foam materials, metal parts, etc.).

Technical specifications:

- Outputs: 2 to 4 partial streams
- Throughput: up to 4 t/h
- Ejection: via compressed air above the material flow
- Input material size: 3 to 40 mm

REDWAVE TEX Qi

Fully automatic **analyser** for determining the **composition of the material** stream, for quality **monitoring** or sorting process **control**.

POSSIBLE SORTING APPLICATIONS (EXPANDABLE):

POLYESTER

WOOL & VISCOSE

COTTON

EXPANDABLE



HIGHLIGHTS

- **SORTING PRECISION**
- **EFFICIENCY** IN PROCESSING LARGE QUANTITIES OF TEXTILES
- **ADAPTABILITY** TO CUSTOMER REQUIREMENTS
- **LABOUR SAVINGS** THROUGH AUTOMATION
- **FLEXIBILITY** IN ADJUSTING SORTING CRITERIA





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