REDWAVE

REDWAVE PAPER SORTING TECHNOLOGY

REDWAVE
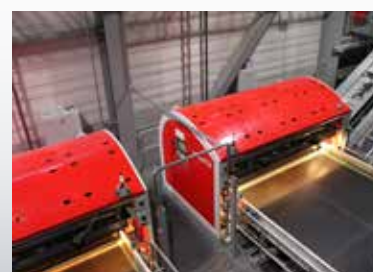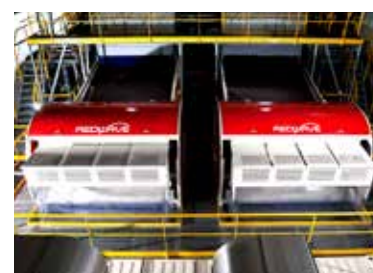
Applications

PAPER GRADES	DE-INKING	NON PAPER
Recovery of:	**Removal of:**	**Removal of:**
• White office paper	• Brown and gray cardboard	• Plastics
• News	• Corrugated cardboard	• Liquid packaging board / Tetra
• Magazines	• Folded boxes	• Textiles
• Catalogues	• Coloured printed cardboard	• Metals
• Woodfree paper	• Synthetic papers	• Flexoprint newspaper
• Kraft paper	• Plastic-laminated papers	• PVC from pulper tail shred
		• And many more ...

REDWAVE®

PAPER SORTING

Plant solutions
Sensor based sorting machines ++

www.redwave.com

PLANT SOLUTIONS

OPTICAL SORTING MACHINES

REDWAVE NIR/C

Working width:
from 1.000 to 2.800 mm

Size range: *
from 50 to 600 mm
from 10 to 50 mm
from 4 to 10 mm
*depending on application

Sensor technology:
- *REDWAVE NIR/C*
Separation of different materials and colours in only one sorting step

Working with Near Infrared spectroscopy and a high-resolution RGB camera

- *Inductive Metal Detector*
Removal of ferrous and nonferrous metals

1 Acceleration belt conveyor

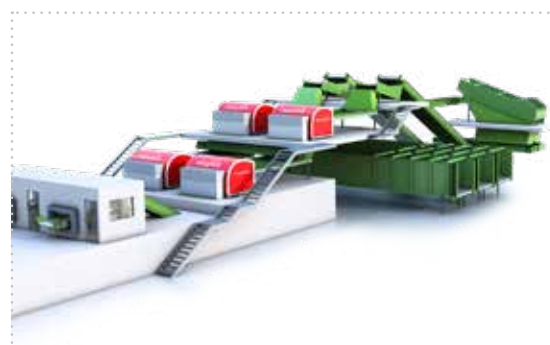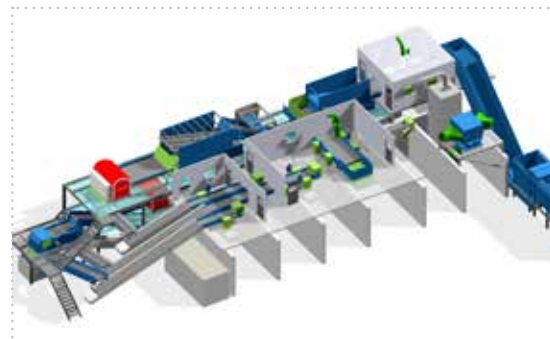**2** Sensor and light source

3 Ejection unit

4 Driven divider idler

REDWAVE paper recycling

competences and technologies:

- Feeding system
- Separation of OCC
  (oversize corrugated cardboard)
- Separation of fine materials
- Conveying technology
- REDWAVE sensor based sorting technology
- Pressing technology
- Dedusting and pneumatic systems

The paper industry has high standards for de-inked paper. REDWAVE is able to achieve these requirements with the highest precision.
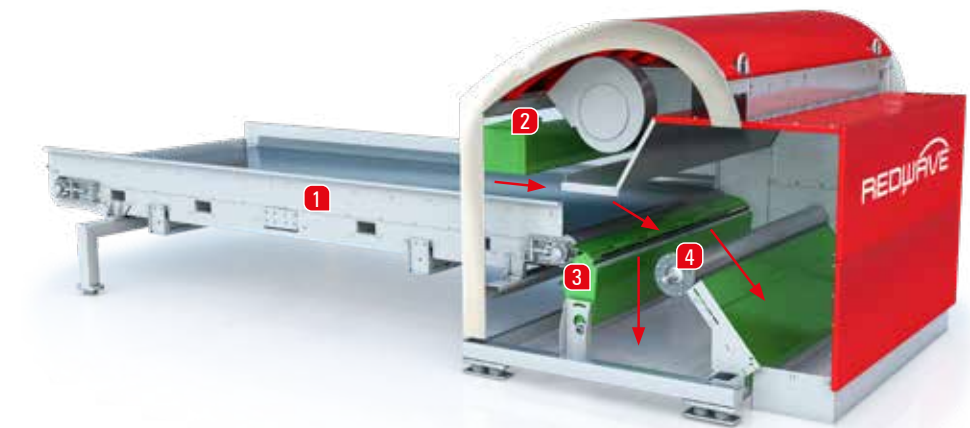
Customer benefit:

- Complete module including belt conveyor, ejection unit and sensor system
- Highest sorting accuracy at high throughputs
- Very flexible sorting programs
- User friendly, low-maintenance, reliable in operation
- Increase the value of the material
- Increase overall profitability
- Proven system for highest grades
- Quality control system

REDWAVE systems separate valuable paper fractions from recovered paper with highest levels of purity. The type and the colour of the materials being sorted can be recognized and separated in one step. Different material grades such as colour printed and non printed cardboard, magazines, news and pams, white office paper, tetra, kraf paper, thermopaper, plastics, etc. are identified by the Near Infrared technology.

Functional principle of REDWAVE:

REDWAVE systems are efficient high-performance solutions for the processing of recovered paper. The material is pre-processed by ballistic separators, disc or star screens and presented in monolayer to the REDWAVE.

The material is scanned and separated according to set parameters. A signal in real time is sent to the high speed valves for separating the material. The number of valves activated per recognized object depends on the size of the particle to be separated.

The plants can additionally be equipped with REDWAVE PMCS for continuous monitoring and controlling of the complete process and quality.

Focus on Quality

Available data for quality report: Percentage of material classes of visible two-dimensional surface by assigning theoretical weight, percentages of classes can be reported (de-inking content, contamination content, recording which material is analysed via time and/or batch numbers, general process plant data and trends).