

### Applications:

#### Sorting of:

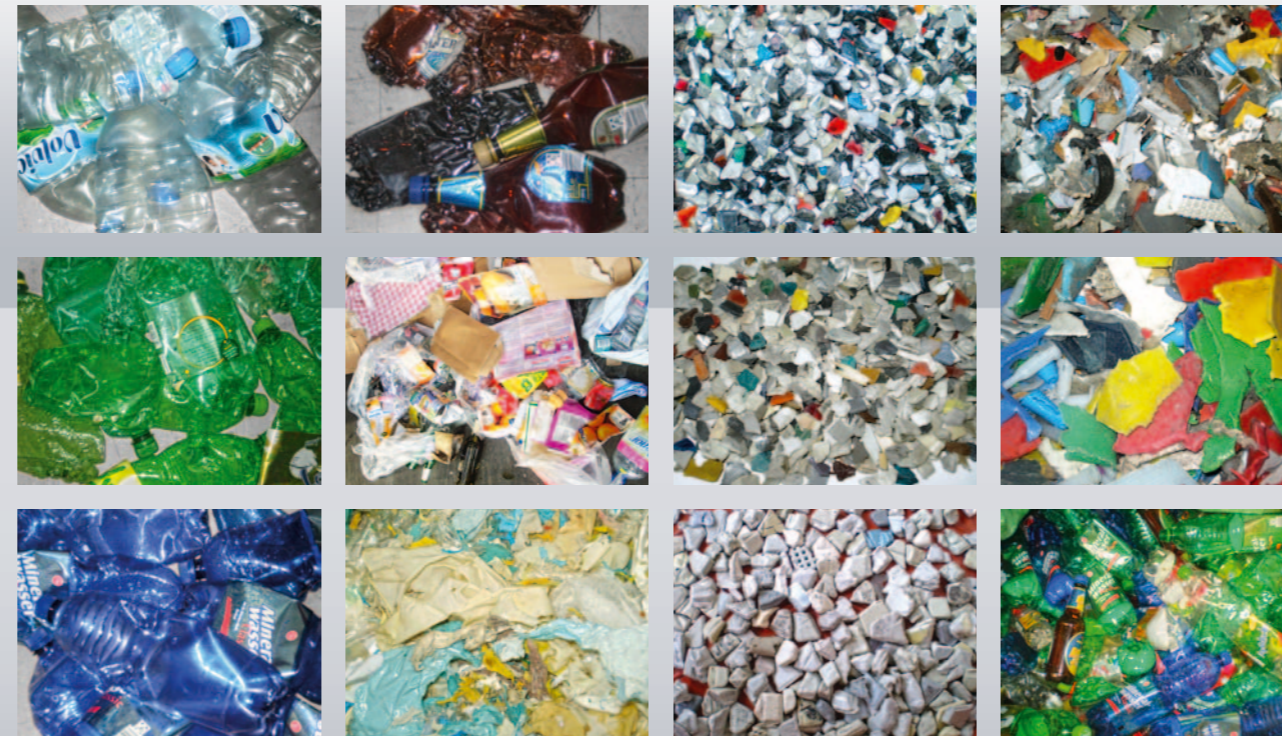
- Household waste
- Industrial waste
- Electronic scrap
- Refuse Derived Fuel (RDF)
- Solid Recovered Fuel (SRF)

#### Quality improvement of:

- Bottles (PET, HDPE, PP, ...)
- Films (LDPE, PP, ...)
- Biodegradable plastics
- Flakes

#### Elimination of:

- Chloride compounds (PVC)
- Flame retardant plastic
- Paper and wood
- Metals



## PLASTICS SORTING

Sensor based sorting technology for plastics recycling

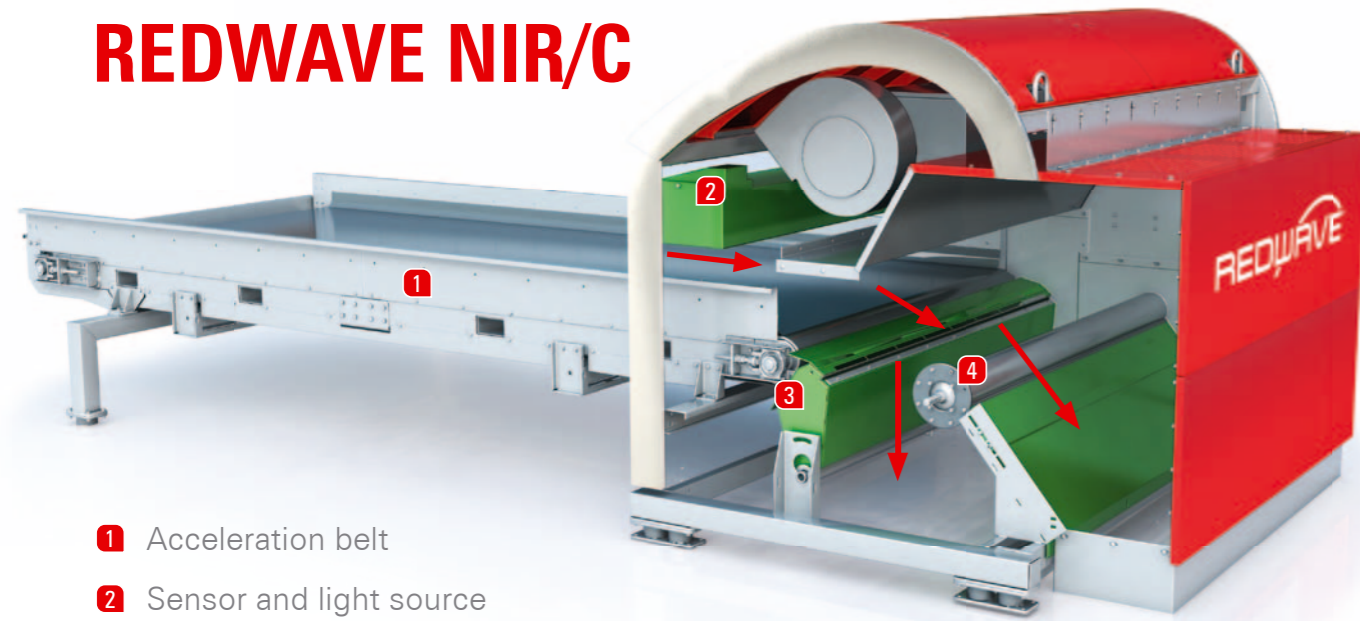


REDWAVE, a trademark of BT-Wolfgang Binder GmbH, Muehlwaldstrasse 21, 8200 Gleisdorf, Austria  
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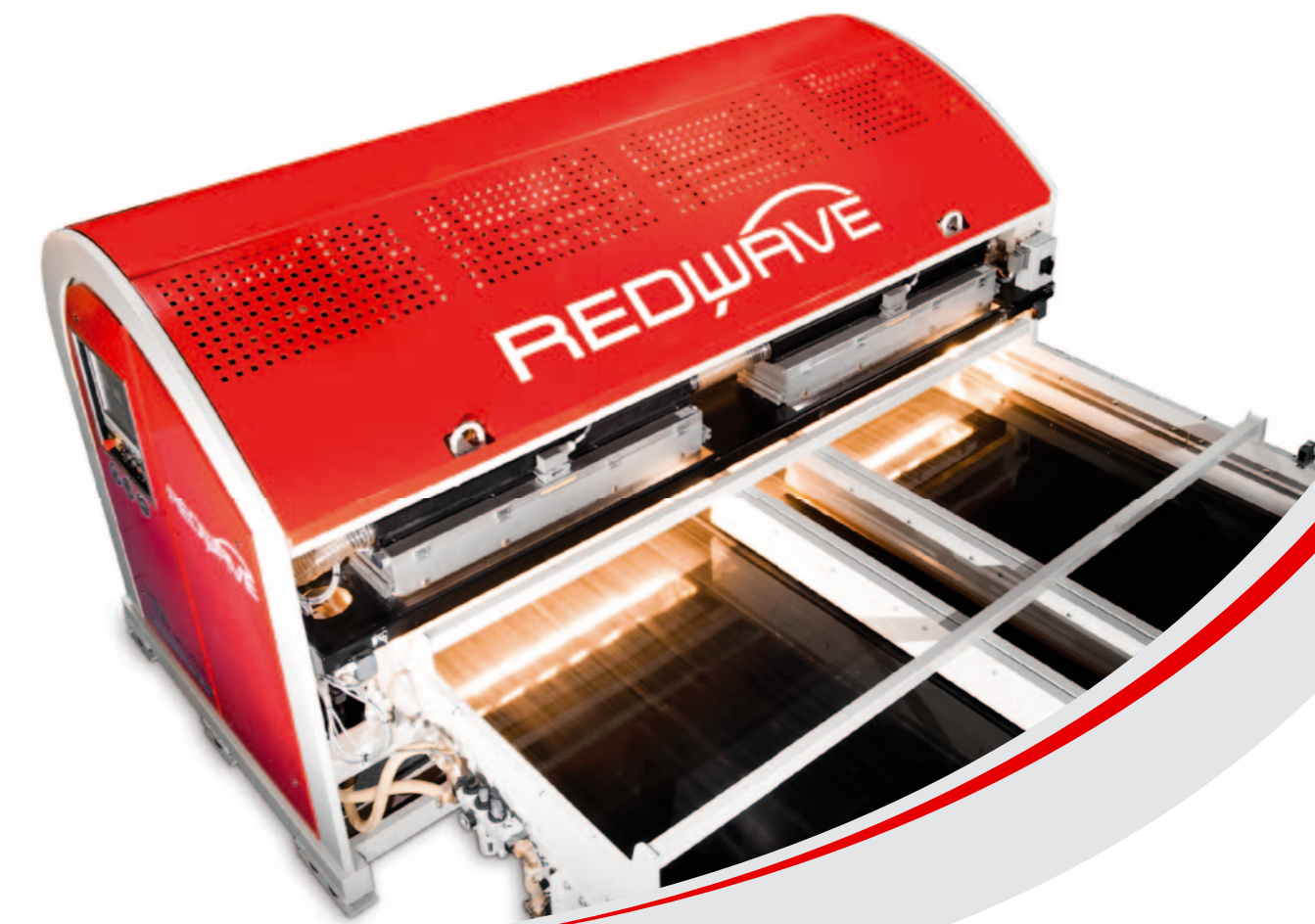


www.redwave.at

## REDWAVE NIR/C



- 1 Acceleration belt
- 2 Sensor and light source
- 3 Ejection unit
- 4 Driven divider plate



REDWAVE is a flexible operating system with applications in a variety of fields, especially for the plastics industry. No matter how complex the sorting task, the REDWAVE range of sorting equipment can achieve the highest levels of purity.

### Functional principle of REDWAVE:

REDWAVE systems are high-performance machines for plastics sorting. Plastic containers, films, flakes, etc. are constantly fed over the entire sorting width by an acceleration belt. The materials are scanned and if identified as a match to the set parameters a signal is sent to the ejection units. High speed valves and air jets, operated by compressed air, eject the identified material. The number of valves activated per recognized object depends on the size of the particle to be separated.

Sensor systems:	Tasks:
Line Scan Camera REDWAVE C	Colour recognition and separation
Near Infrared (NIR) REDWAVE NIR	Material recognition and separation
Multi Sensor REDWAVE NIR/C	Separation of different materials and colours in only one sorting step
X-Ray Fluorescence REDWAVE XRF	Recognition and separation by element distribution and their own Fluorescence Spectrum
Inductive Metal Detector	Elimination of ferrous and nonferrous metals due to their conductivity

Size ranges:	Working width:	Sorting systems:
from 5 mm to 300 mm	from 800 mm to 2.800 mm	Belt and gravity sorter 2-way and 3-way system

## REDWAVE makes your material valuable

### Characteristics:

- Latest sorting technology
- Highest reliability and efficiency
- Very flexible sorting systems
- User friendly, low-maintenance, reliable in operation
- Highest sorting accuracy at high throughputs
- Increased value of the material
- Increased profit
- Modem and remote maintenance