

REDWAVE

www.redwave.at

Your partner in:



Plastics sorting



Paper sorting



Glass sorting



Mineral sorting

REDWAVE

A sensor based sorting technology

REDWAVE is a trademark of BT-Wolfgang Binder which is a sensor based sorting technology.

REDWAVE sorting technology enables fully automated separation of recyclable materials and is successfully worldwide for sorting a variety of materials in many fields.

Depending on the requirements the material will be identified on the basis of its colour, shape or other material characteristics.

The REDWAVE through excellent industrial design achieves high performance and quality recovery of materials.

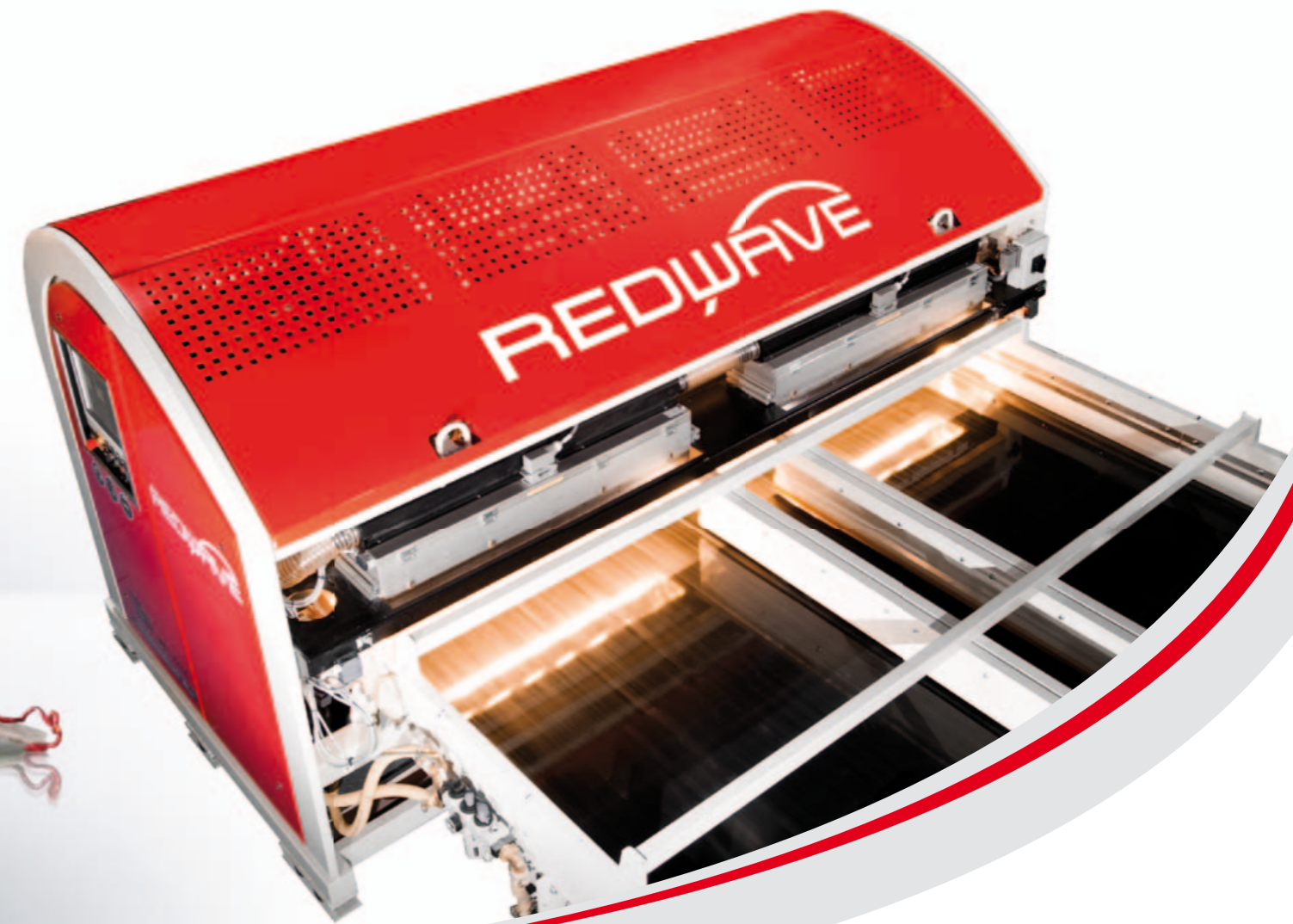
Continuous research and development in:

- Plastics recycling
- Paper recycling
- Glass recycling
- Mining industry
- Electronic scrap
- Automotive industry
- Wood recycling
- Separation of ferrous and non-ferrous metals

REDWAVE

Plastics sorting

REDWAVE for plastics recycling



Applications

Recovery of:

- Bottles (PET, HDPE, PP, ...)
- Films (LDPE, PP, ...)
- Bio-degradable plastics

Separation of:

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

Sorting of:

- Household waste
- Industrial waste
- Electronic scrap
- Refuse Derived Fuel (RDF)
- Demolition waste

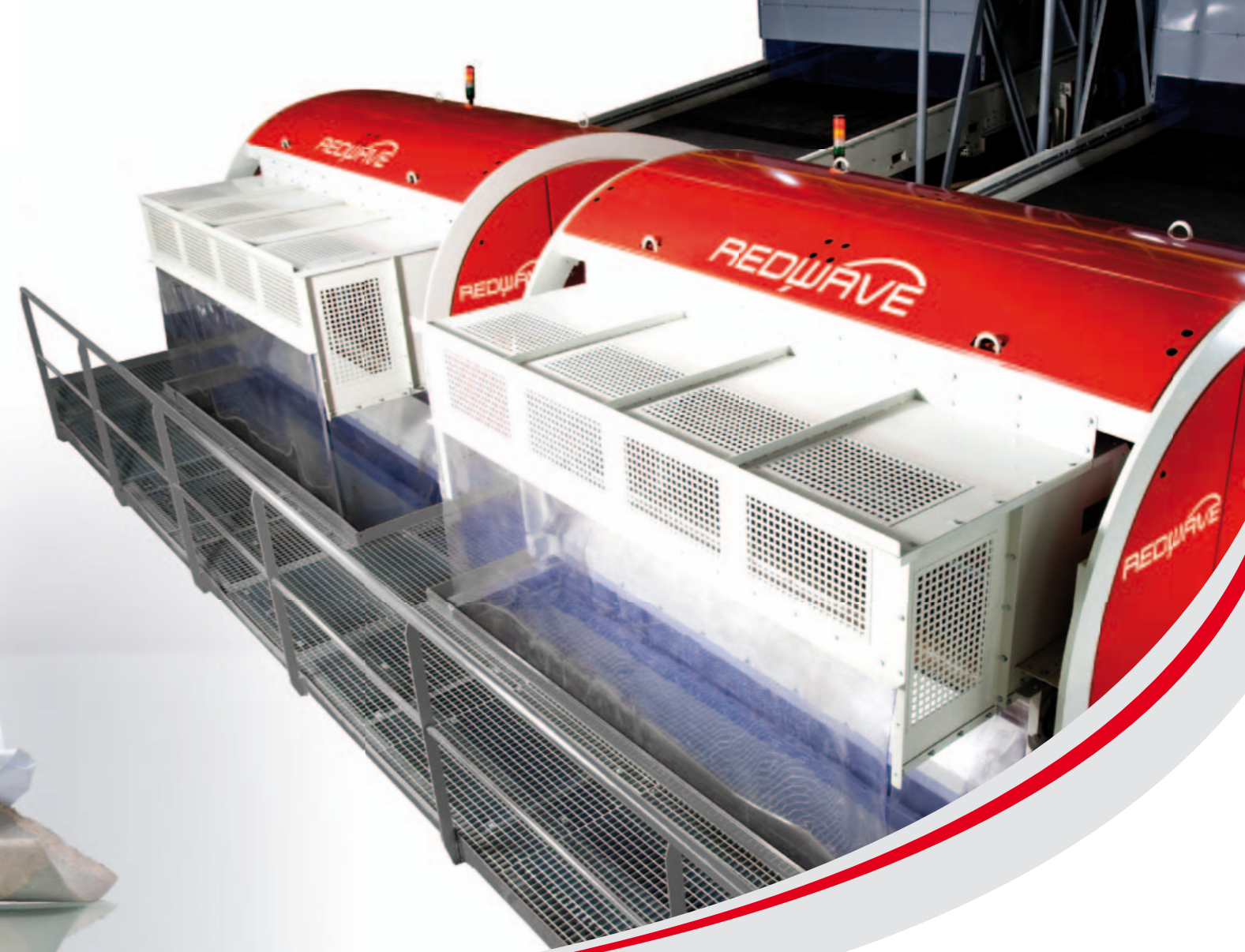
REDWAVE is a flexible operating system with applications in a variety of fields, especially for the plastics industry. No matter how complex the sorting task may be the REDWAVE range of sorting equipment can achieve the high levels of purity. REDWAVE guarantees high throughput of materials with maximum recovery of materials achieving maximum return on the separated commodities.

The Systems below can be selected to achieve the optimum performance:

- Near Infrared Technology (NIR) – for material recognition
- Line Scan Camera Technology – for colour recognition
- Multi-Sensors – a combination of Near Infrared Technology (NIR) with colour sensors for material and colour recognition
- Metal detector – for recognition of ferrous and non-ferrous metals

Paper sorting

REDWAVE for paper recycling



Applications

Desired paper:

Recovery of:

- Office paper
- News
- Magazines
- Glossy
- Catalogue

Undesired paper:

Separation of:

- Brown and gray cardboard
- Corrugated cardboard
- Folded boxes
- Coloured printed cardboard
- Synthetic papers
- Plastic-laminated papers

Non-paper products:

Separation of:

- Plastics
- Liquid packaging board
- Textiles
- Rubber
- Metals
- And many more ...

Paper industry has high standards for de-inked paper. REDWAVE is able to achieve these requirements with highest precision. Near Infrared Technology (NIR) with colour sensors is selected.

Unique feature of REDWAVE - quantitative identification of:

- Kaolin
- Cellulose
- Lignin
- Moisture
- Flexoprint

Glass sorting

REDWAVE for glass recycling



Applications

Sorting and recovery of:

- Flint glass
- Amber glass
- Green glass

Separation of:

- Ceramics, stones, porcelain
- Metals
- Heat resistant glass
- Leaded glass
- Organic impurities
- Plastic
- Cork
- Paper

As your reliable partner in glass processing we can offer the most innovative sorting methods, therefore guaranteeing an unprecedented purity of sorted materials.

The Systems below can be selected to achieve the optimum performance:

- Infrared – for the sorting of ceramics, minerals, porcelain (KSP) and metals
- Colour sorting – for colour improvement or the separation of mixed glass in different colours
- X-Ray Fluorescence Technique – for the separation of heat resistant and leaded glass

Mineral sorting

REDWAVE for mining



Applications

Base metal:

- Bauxite
- Copper
- Iron ore
- Lead
- Manganese
- Nickel
- Zinc
- Aluminium
- Uranium
- Scheelite

Precious metal:

- Gold
- Silver
- Platinum
- Palladium

Metal slag:

- Copper
- Nickel
- Stainless steel

Industrial Minerals:

- Calcite
- Feldspar
- Limestone
- Magnesite
- Quartz
- Rock salt
- Silicium
- Talc
- Phosphate

Gemstone:

- Diamonds
- Tanzanite
- Emeralds
- Topaz
- Aquamarine
- Rubies
- Alexandrite

The processing of minerals places a high demand upon the sorting process. REDWAVE can offer flexible sorting systems which are highly effective in separating impurities from valuable minerals. The separation occurs on the basis of colour, lightness, size and material property. REDWAVE guarantees high throughput of materials with maximum recovery of materials achieving maximum return on the separated commodities.

The Systems below can be selected to achieve the optimum performance:

- Near Infrared Technology (NIR) – for material recognition
- Line Scan Camera Technology – for colour recognition
- Multi-Sensors – a combination of Near Infrared Technology (NIR) with colour sensors for material and colour recognition
- Metal detector – for recognition of ferrous and non-ferrous metals
- X-Ray Fluorescence Technique – for material recognition

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