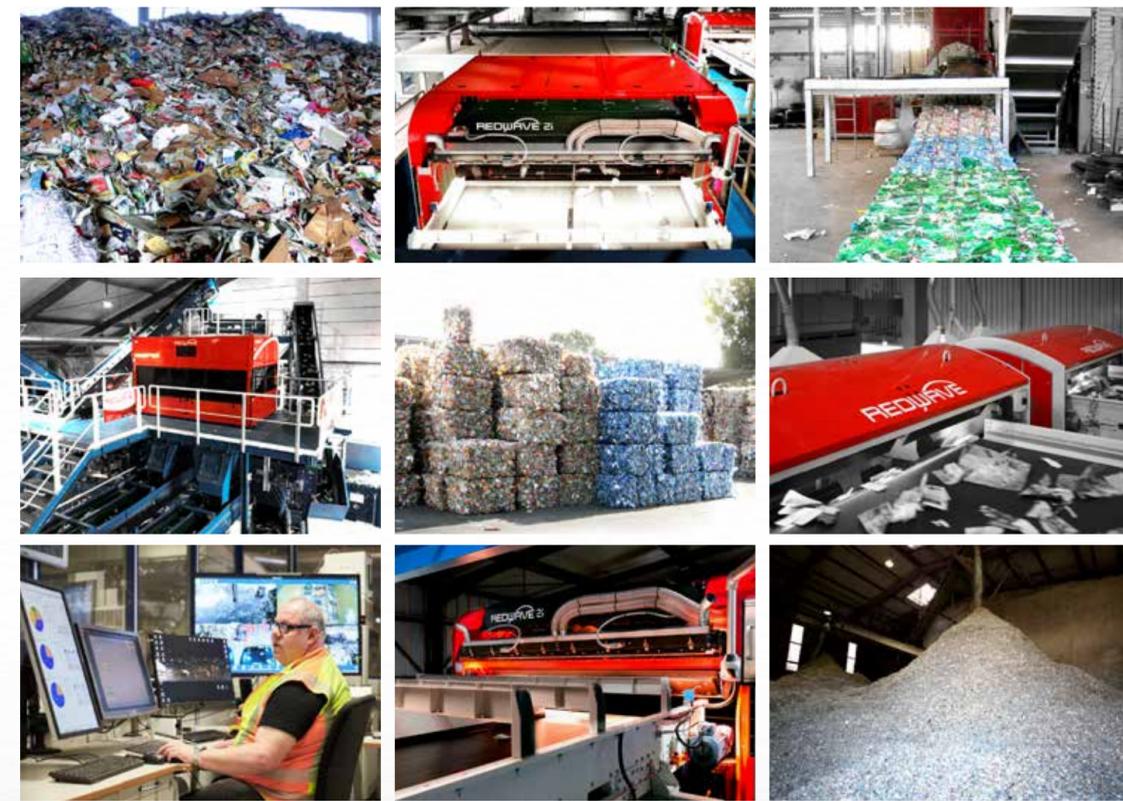# REDWAVE 2i

... the quality you need
... the solution you want
... the service you deserve

The partner who accompanies you your entire REDWAVE lifetime!

Sorting and recovery of your material

Locations

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REDWAVE 2i

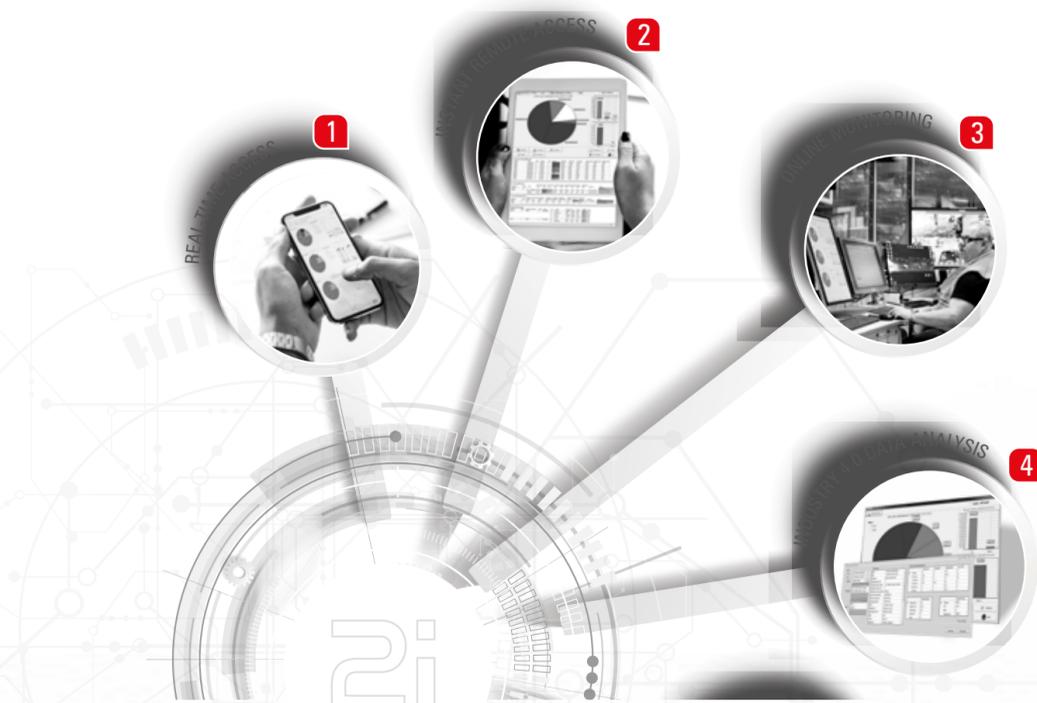the INTELLIGENT GENERATION of
sensor based sorting

The new generation of INTELLIGENT sorting

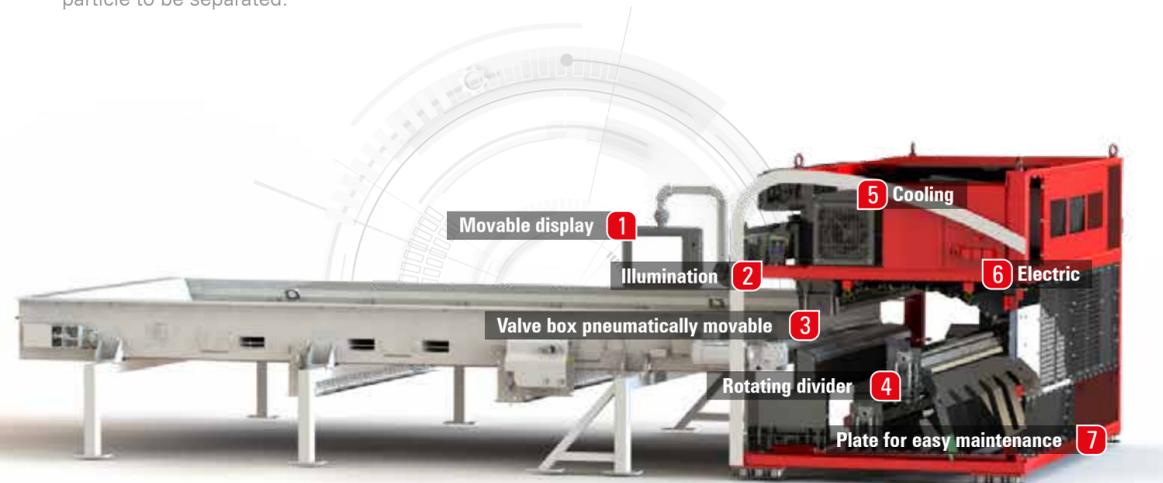1
2
3
4

Movable display

Illumination unit

Valve box pneumatically movable

INTELLIGENT INTERACTIVITY between: REDWAVE 2i – Human - Computer

- Statistical data in real-time:
  - gain real-time access to input and output quality
  - real-time access to performance of sorters and sorting line
- Generate value by Industry 4.0 data analysis
- Quality optimisation by interactive process control
- Advanced performance data
- Statistical datas

Functional principle

REDWAVE sensor based sorters are high-performance machines for the recycling and waste industry. The material is scanned and separated according to set parameters. A signal 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.

Movable display 1
Illumination 2
Valve box pneumatically movable 3
Rotating divider 4
5 Cooling
6 Electric
Plate for easy maintenance 7

Rotating divider

Large inspection window

Electric integrated in the machine

The new REDWAVE 2i generation operates with Sensor Fusion which combines near-infrared, RGB cameras and metal sensors for optimum sorting quality. When compared with conventional sorting machines, REDWAVE 2i provides additionally essential advantages for the plant operator concerning maintainability, installation and ongoing operation. But above all REDWAVE 2i is the latest generation in sensor based sorting focused on intelligent interactivity between: human - machine – computer.

Benefits:

Sorting:

- Sensor fusion – combines near-infrared sensors, RGB cameras and metal detectors in one machine for enhanced sorting results
- High-performance design for application on dirty and dry material stream
- Adoptable design to allow up to 4-channel sorting in one machine
- Easy upgradeable from 2-way to 3-way machine designs
- Optimised energy consumption
- Free HMI software
- 24 hour online support

Real-Time Monitoring:

- Provision of real-time data on mobile devices and computers
- History tracking of plant availability and plant performance
- Comparison of production period
- Interactive process control which reduces downtime to a minimum

Maintenance:

- Easy installation of machine "Place-Connect-Start"
- Pneumatically moveable valve unit for auto-cleaning
- Large inspection windows
- Optimised spare parts stock due to universal machine design
- Adjustable HMI display
- Machine access redesigned for user-friendly ergonomics

Applications

- **Municipal Solid Waste**
  Recovery and sorting of:
  - plastics
  - paper and cardboard

- **RDF/SRF**

- **Plastics**
  Sorting of lightweight packaging:
  - PET (different material and/or colour)
  - HDPE + LDPE
  - PP/PS
  - PVC

- **Paper**
  - cardboard
  - news & pams
  - tetra

- **Glass**
  Removal of plastic from glass cullet

- **Construction and Demolition Waste**

General data

- **Ejection:**
  2-way system
  3-way system