

APPLICATIONS

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Recovery of recyclables from Waste Electrical and Electronic Equipment (WEEE)

- Metals and alloys
- Plastics (thermoplastics, plexiglass, etc.)
- Composite materials (circuit boards, etc.)
- Brominated plastics (BFR)
- Plastics with cadmium compounds
- Material tainted with precious or recoverable metals (e.g. copper, brass, silver, etc.)
- Sorting of monitor glass (CRT)
- etc.

SORTING TECHNOLOGIES

MATERIAL:	Separation of:	Separation of:	Separation of:	Separation of:	Separation of:
	Different metals: <ul style="list-style-type: none"> • non-ferrous (aluminium, copper) • ferrous (iron, ...) • stainless steel 	Different colours: <ul style="list-style-type: none"> • green circuit boards • brown circuit boards • plexiglass • etc. 	Undesired materials: <ul style="list-style-type: none"> • wood • paper • etc. Different materials: <ul style="list-style-type: none"> • plexiglass • ABS • PS • PC • etc. 	Different colours: <ul style="list-style-type: none"> • green or brown circuit boards Undesired materials: <ul style="list-style-type: none"> • wood • paper • etc. Different materials: <ul style="list-style-type: none"> • ABS • PS • PC • etc. 	Different materials according to chemical composition: <ul style="list-style-type: none"> • brominated plastics (BFR) • material tainted with precious or recoverable metals • CRT glass • etc.
TASK:	Separation of metals	Detection of different colours	Detection of different plastic materials and removal of contaminations	Detection of different colours and different materials	Detection of chemical composition
SENSOR TECHNOLOGY:	Induction detector	High-resolution RGB camera	Near-infrared (NIR) hyperspectral imaging	Near-infrared (NIR) hyperspectral imaging combined with a high-resolution RGB camera	X-ray fluorescence spectrometer
TYPE OF MACHINE:	REDWAVE M <i>All Metal Sensor</i>	REDWAVE C <i>Colour</i>	REDWAVE NIR-SSI <i>Near Infrared</i>	REDWAVE NIR-SSI / C <i>Multi-Sensor</i>	REDWAVE XRF <i>X-ray fluorescence</i>

SORTING PLANTS FOR E-SCRAP (WEEE)





COMPACT WEEE SORTING PLANT

REDWAVE systems has developed this compact sorting line for all electronic waste.

Outstanding features of the line:

- REDWAVE hyperspectral imaging
- High-resolution RGB camera
- All metal detector

Auxiliary equipment:

- Hopper
- Discharge unit
- Conveying system
- Feeding with screening option

Outputs: PS ABS PC+ABS ABS+TBBPA ABS+TBBPAEP PA PC PET PE PP PBT POM PVC PMMA PUR etc.

Customer Benefits:

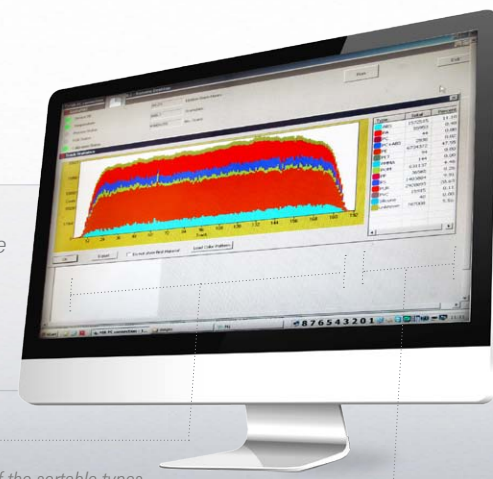
- Proven compact sorting solution
- Smart solution for low capacity
- Free programmable sorting task

Customer Feedback:

JaneK Sibbul, director at company WeeRec AS: "REDWAVE quality and price ratio is very good. The sorting machine works accurately. A big plus is that new modules can be added to this device (metal detector, sorting by colour etc.). Since installation our plastic sort has reached a new level."

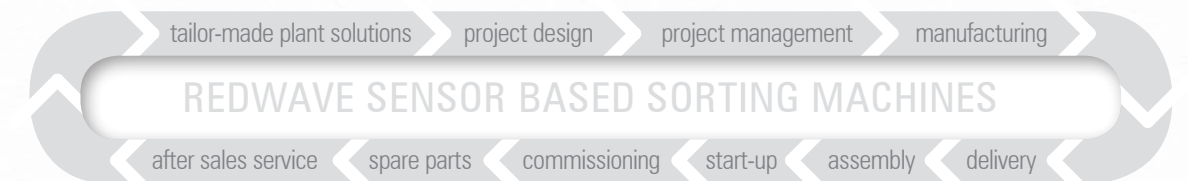
Graphic representation of the material distribution across the sorting range

Input statistics for the machine and representation of the sortable types



CUSTOMIZED WEEE SORTING PLANT

REDWAVE systems guarantees the highest value of recycling plants based on years of experience in the recycling industry.



Customer Benefits:

- Customized and flexible plant solutions for different WEEE material streams
- Free programmable sorting task
- Well balanced sorting plants with own developed REDWAVE sorting technology
- Continuous optimization by REDWAVE Process Monitoring and Control System (PMCS)

Customer Feedback:

Manfred Koegl, plant manager for WEEE recycling facility at Saubermacher: "We are extremely satisfied with the design and sorting quality of the REDWAVE machines. We found REDWAVE systems to be very professional throughout the project and our requests were always immediately addressed."

