

# CASE STUDY

**MAYER RECYCLING GMBH**  
SORTING OF VARIOUS  
NON-FERROUS METALS



**REDWAVE®**



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REDWAVE®

## CUSTOMER

Mayer Recycling GmbH is an innovative, privately held company working in the field of waste management. Its core business is mechanical treatment of solid waste and metal scrap in St. Michael, Austria.

Besides producing residual fuel, the company's other main business is the recycling of ferrous and non-ferrous metals. The vision of Mayer Recycling GmbH is to produce secondary resources and residual fuel in order to save energy and primary resources.



## SITUATION AND SOLUTION

REDWAVE and Mayer Recycling GmbH cooperate for many years already. A few years ago, a prototype of the REDWAVE XRF/C has been installed at the premises of Mayer Recycling GmbH for testing and sorting all kinds of non-ferrous metals. Furthermore, many different trials with other recycling companies have been performed successfully ending in sales activities. Finally, also Mayer Recycling GmbH opted for a REDWAVE XRF/C sorter to sort their different non-ferrous metal streams. Besides their own material, which is produced in their recycling plant for household waste, also other non-ferrous metal streams such as ZORBA and IBA- purchased from other recyclers- are being treated with the REDWAVE XRF/C producing packages of copper, brass, zinc, stainless steel, etc.

## HIGHLIGHTS

As the machine is also equipped with a standard RGB-camera, colour sorting is possible also. In Mayer's case this feature is used to separate any remaining non-metallics such as plastic, rubber, foam, etc. from the non-ferrous metals.





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REDWAVE®

ALUMINIUM



COPPER



ZORBA



## TECHNICAL DATA

TYPE OF MACHINE	REDWAVE 900 XRF-SDD/C 2W
INPUT MATERIAL	Various non-ferrous metals from ZORBA or incinerated bottom ash; Sorting of copper, brass, zinc, stainless steel, aluminium, etc.
CAPACITY	Depending on sorting step 4-8 t/h
SENSOR SYSTEM	Combination of X-Ray Fluorescence (XRF) and Camera (C)
GRAIN SIZE	15-45 mm, 45-120 mm / 3/8" – 1 1/2", 1 1/2" – 5"
WORKING WIDTH	900 mm / 36"

**” With the innovative REDWAVE technology many new possibilities in sorting all kinds of non-ferrous metals will arise in future.**

*Mr. Andreas Säumel, Managing Director, Mayer Recycling GmbH*

