

# CASE STUDY

SDI LA FARGA LLC  
SORTING OF BIRCH/CLIFF-  
COPPER SCRAP



REDWAVE®



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REDWAVE®



*The REDWAVE has become a reliable and capable separating tool.*

*Kurt Breischafft, President of SDI La Farga LLC*

## CUSTOMER

SDI La Farga LLC is a joint venture between Steel Dynamics Inc, based in Fort Wayne, Indiana, and The La Farga Group, based in Barcelona, Spain. The plant has an annual capacity of 180 million pounds copper products- Cu-FRHC (fire refined, high conductivity) - with a quality of 99.95 % purity.

Because SDI La Farga uses secondary copper to make new copper products, their proprietary production process has a significantly lower impact on the environment, diminishing the carbon footprint left behind.

## SITUATION AND SOLUTION

REDWAVE was approached by SDI La Farga for a solution to reduce certain unwanted elements such as silver and nickel in the secondary copper scrap used for production. After a positive trial in Austria a rental machine was installed for several months on-site in Fort Wayne, Indiana. The rental period gave SDI La Farga the opportunity to long term test the REDWAVE sorting machine in a production environment. Copper scrap was sorted and immediately melted for production. The separation of the elements nickel and silver turned out to be of great success and the quality of the final product was to everyone's satisfaction. SDI La Farga has decided to install a REDWAVE XRF/C sorter permanently at the end of the rental period.



*The machine is easy to use and generates consistent results.*

*Derek Ham, Sr. Process Engineer SDI La Farga LLC*



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## TECHNICAL DATA

TYPE OF MACHINE	REDWAVE 1370 XRF-SDD/C 2W
INPUT MATERIAL	Birch/Cliff- copper scrap
CAPACITY	10-15 to/h
SENSOR SYSTEM	Combination of X-ray Fluorescence (XRF) and Camera (C)
GRAIN SIZE	10-150 mm/ 0.4"- 6"
WORKING WIDTH	1370 mm/ 54"

## HIGHLIGHTS

The REDWAVE sorter makes it possible to significantly increase the use of less expensive copper scrap sources. With the REDWAVE sorter the use of Birch/Cliff can be increased meaningfully to more fully take advantage of market conditions.

The nickel content in the Birch/Cliff is typically reduced in the proprietary refining process. Using a consistently lower nickel concentration in the sorted material makes it possible to accelerate the cycle time by 7%, resulting in a higher production rate.

The robust and compact design with no moving parts minimizes maintenance.

