



## **STEINERT XSS F**

**X-Ray Sorting System**

> Minerals, heavy metals, stainless steel alloys,  
flame retardant plastics and steel scrap

# STEINERT XSS F

## X-Ray Sorting System

The STEINERT XSS F Sorting System combines the power of the proven and unique X-Ray Fluorescence (XRF) technology with STEINERT's tough, reliable system design to identify and separate material based on its elemental composition.

### Applications

Shredded steel, heavy metals, stainless steel alloys, sorts any material based on chemical composition

### Technology

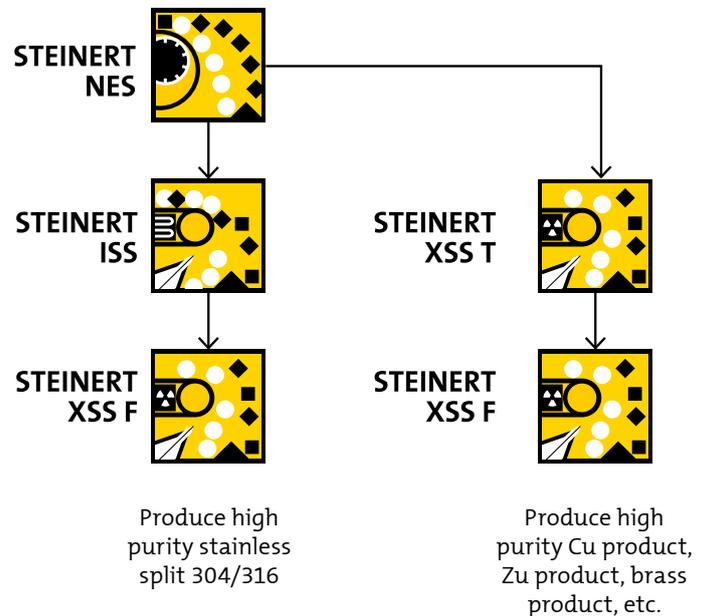
The processed material is run through a low-energy X-Ray field where each element emits a specific energy in reaction to the X-Ray impact. Based on the specific energy emitted by the material the software assigns an elemental profile; thus enabling an accurate separation based upon elementary composition.

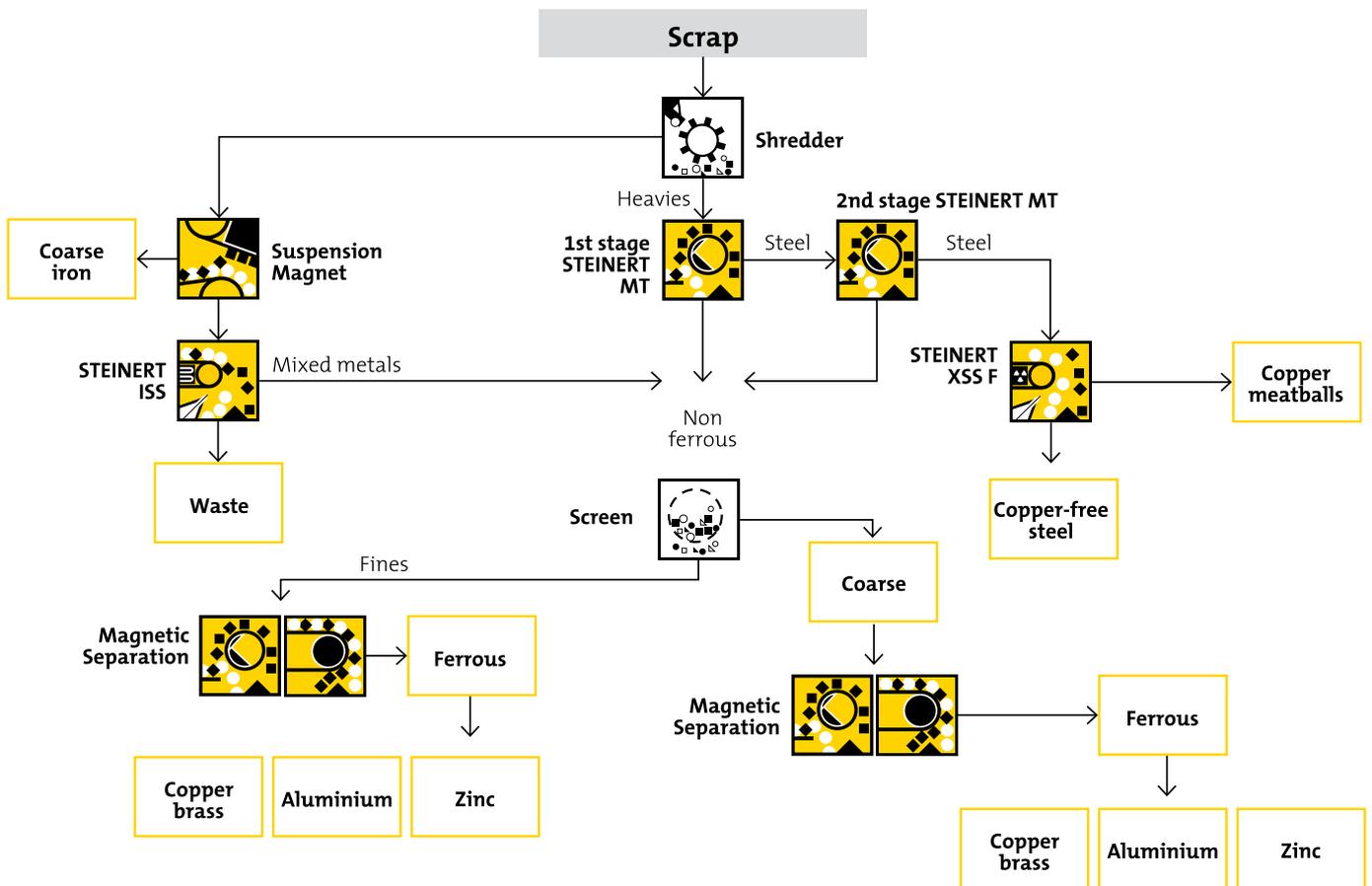
### Remove Copper meatballs to process high quality ferrous shred.

Steel contains increasing amounts of residual copper, which is a metallurgical and processing poison for steel recycling. Main contributors are copper 'meatballs' that are continuously polluting the steel scrap. There is a huge market demand for an alternative, automated method to remove these meatballs, that allows the consistent production of high quality steel scrap.

STEINERT and OLYMPUS have joined forces to fulfill this demand and create a solution. The new X-Ray Fluorescence Sorting System XSS F is based on the reliable, tough STEINERT design and the proven X-Ray Fluorescence detection technology of OLYMPUS.

Interested in finding out more?  
Please contact us, we will be glad to advise you personally.





## Take Metal Sorting to the Next Level with XRF technology.

Magnetic drum, Eddy Current, Induction Sorting System, optical and shape sorting System and dual energy X-Ray Sorting are technologies that have been accepted by the market for years. But still, the needs remain to increase the level of sorting scrap even further. OLYMPUS and STEINERT have now joined forces to bring automated X-Ray Fluorescence to the market.

OLYMPUS' proven and unique XRF technology combined with STEINERT's reliable and tough system design will result in a sorting system that sorts based on elemental composition of scrap, allowing the recycling market to truly take metal sorting to the Next Level.

### Applications

- Sort heavies
- Further sort stainless products
- Sort any material based in chemical composition

### Technical data

- Sorting principle: detection of chemical composition based on X-Ray fluorescence
- Grain Size: 10 - 200 mm (depending on type of scanner)
- Capacity: 0,5 - 150 t/h based on application
- Working width: 600 mm, 1200 mm, 1800 mm
- Limit of detection: PPM-range to %-range (depending on chemical element and embedding)
- Measuring range: up to 40 keV (based on application)
- Possible combination: 3D-triangulation camera, color camera, inductive sensor



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Subject to technical changes.

Your local STEINERT consultant:

