NON-FERROUS METAL SORTING
How to purify your heavy metals to the maximum
Metal resources are not endless and sustainability is a factor that gets more and more important in all kinds of industries. Additionally governmental regulations on recycling become tight and challenging for the recycling industry. Operators of scrap yards need to achieve higher recovery rates and better qualities. Even fines grain sizes need to be held in the recycling circle.

Moreover volatile global market conditions create a competitive environment for trading mixed scrap and secondary metals. Non-ferrous metals are 100% recyclable. By using sorting technologies, this unique characteristic creates chances for all involved in the recycling circle. Individual sorting solutions and flexible sorting equipment creates ready-to-smelt non-ferrous metal products, the basis for the efficient use of secondary metals in new products. This solution guide supports you in the treatment of the most effective sorting processes for the recovery of non-ferrous metals.

// Especially in the applications
- auto-shredder residue (ASR)
- incineration bottom ash (IBA)

// Our sorting systems take care of
- getting rid of the waste and recover zorba
- creating a clean aluminium product
- purify heavy metals into its clean fractions of copper, brass, zinc

Purification into supreme mid size copper, brass and zinc which is ready to smelt – detected with X-ray fluorescence technology

Separation of heavy from light metals with X-ray transmission technology
ASR ALUMINIUM SEPARATION

Simplified flowchart for the separation of Al scrap from (ELV) shredders
ASR HEAVY METAL SEPARATION
Simplified flowchart for the separation of mixed heavy metals from ELV shredders
The eddy current separator can be used anywhere where non-ferrous metals can be recovered or separated. It produces marketable non-ferrous metal mixtures containing aluminium, copper, zinc or brass by eddy current technology.

The STEINERT EddyC® FINES is made for the separation of extra fine non-ferrous metals. It produces marketable non-ferrous metal mixtures containing aluminium, copper, zinc or brass by eddy current technology.

Our STEINERT XSS-T separates a wide variety of materials based on differences in density. Thus X-ray transmission separates light metals like aluminium from heavy metals.

When we enhance the STEINERT XSS-T with a laser for 3D recognition, a colour and an induction sensor, one improve the sorting results and expand the application range. This multisensor machine is called STEINERT KSS.

STEINERT XSS-T | XF CLI
STEINERT XSS-T | XF CLI stands for high throughput rates and a wide variety of applications particularly efficient for grain sizes 30 to 150 mm. Its X-ray fluorescence sensor suits for heavy metal sorting in coarse and mid size grain sizes. It creates a copper, brass, zinc and a stainless steel product.

STEINERT CHUTC | XF CL
STEINERT CHUTC | XF CL with X-ray fluorescence sensor is particularly efficient in fine grain applications down to 5 mm. It produces clean products of copper, brass, zinc & stainless steel.

Purify into clean copper, brass and zinc fractions ready to smelt with X-ray fluorescence:

STEINERT LSS | XF L
The line sorting system produces several sellable, high-purity products in only one run. It determines the object-specific elemental composition using X-ray fluorescence (XRF). It works for grain sizes like 30 to 150 mm and sorts the heavy metals in absolutely pure fractions.

STEINERT XSS-T
Separate light from heavy metals with STEINERT X-ray transmission:

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Purify into clean copper, brass and zinc fractions ready to smelt with X-ray fluorescence:
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