





STEINERT XSS T X-Ray Sorting System

> Minerals, ore, coal, plastics, wood, incineration bottom ash and non-ferrous scrap

STEINERT XSS T X-Ray Sorting System

The X-Ray Sorting System XSS T creates exciting new possibilities for automated sorting of mixed material. The STEINERT XSS T uses a "Dual Energy" system to determine material density while overcoming the effects of thickness and shape. It "sees" through the pieces, recognizing different material densities, different metals, components containing halogens, and organics. Composite materials and embedded items (screw, nails) can be also recognized. This X-Ray sensing enables light metals to be sorted from heavy metals, PVC from plastics, stone from wood chips.

Applications

The STEINERT XSS X-Ray Sorting System greatly increases the range of possibilities for sorting mixed minerals.

Technology

The absorption depends on both the solid density and material thickness. The larger the atomic mass and the thicker the material, the greater the absorption. In order to compensate, the thickness of the material to be sorted is analysed on two different energy levels known as "Dual Energy". This allows the software to measure the absorption specific for the material.

A common feature of all STEINERT sorting systems is that every individual particle in the material flow is recognized and classified.

The long, fast-running belt ensures that the particles are singulated and homogeneously distributed. While they pass the X-Ray source and camera, they are recognized and classified in a fraction of a second according to pre-set criteria programmed in the flexible system software.

If classification matches the previously defined criteria, the particle is ejected by a powerful blast of compressed air out of reliable, fast-action compressed air valves. One important application of the X-Ray Sorting System STEINERT XSS T is the separation of mixed light and heavy metals, such as the mixed non-ferrous product from eddy current separators. The STEINERT XSS T makes it possible to separate aluminium and magnesium from the heavy metals fraction such as copper, zinc and lead. It is also possible to separate cast aluminium from wrought aluminium as well as heavy metal alloyed aluminium from other aluminium.

When processing minerals, metal bearing rock can be separated from metal-poor rock or coal from stone. This saves large amounts of energy in the area of fine milling and fine particle sorting, thus substantially improving the economics of current mineral processing operations.

Composite materials and even surface details in organic materials can also be recognized and separated by the X-Ray Sorting System STEINERT XSS T. Even plastics and wood can be separated











Technical data

- Sorting priciple:
 Density separation based on X-Ray transmission
- Grain size: 10 200 mm
- Throughput: up to 100 m3/h*m (depend on application)
- Working width: 1000 mm, 2000 mm
- Durability X-Ray Source: 20.000 h
- Durability sendors: 40.000 h







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Subject to technical changes.

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