

The **X-Ray Sorter** specifically designed for your industry and application.

- **Car shredder zorba:** separation of heavy metals (copper, brass, zinc, lead) from aluminum and magnesium
- **Aluminum smelter:** separation of cast aluminum from aluminum sheet



The SGM X-ray Sorter is based on the latest X-ray through beam technology using high dual energy for metal separation and single low energy for plastic separation.

Working Principle

The materials to be inspected and sorted are evenly distributed onto the sorter's conveyor belt and transported between X-ray emitter (source) and receiver (LDA). The energy emitted by the X-ray source passes through the material under inspection and the receiver measures the residual level of energy which is characteristic of the atomic composition of the material crossed.

Dual Energy Sensors for identification of different metal pieces regardless of their thickness



Light Zorba Metals including massive pieces



Heavy Zorba Metals including thin pieces

Mechanical Assembly

Extremely robust to suit industrial use. Easy access for cleaning and maintenance.

Software Advantages

Designed by SGM for your application. The user has the possibility to choose from a variety of algorithms and an interactive interface allows simple intuitive setups. The synchronization between the pneumatic rejection system setting and the belt speed setting is automatic.

TECHNICAL SPECIFICATIONS



Model	Sources	Valves/ Nozzles	Belt Speed	Belt Width	Weight
XRS 24-R	1	64	1,5 - 2,5 m/s	610 mm	5500 kg
XRS 48-R	1	128	1,5 - 2,5 m/s	1220 mm	6700 kg
XRS 72-R	1	192	1,5 - 2,5 m/s	1850 mm	7800 kg

- Operating condition: Under roof if installed outdoors - Temperature +5°C / +40°C
- X-Ray radiation level: < 0,5 mR/hr at 5 cm
- Capacity: Based on application and specifications of material to separate, percentage of in-feed material, average size and weight.
- Air compressor: Specifications based on quantity and characteristics of material to be separated.

