



## **STEINERT HGS**

**High Gradient Magnetic Separator**

> Sand, ores, coal, salt, ceramic, glass, slag

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STEINERT HGS is commonly used in salt processing plants, the building materials industry and the industrial minerals sector. It is ideal for sorting free flowing bulk materials in the fine-grained particle range from 200 µm up to several millimetres.

### Applications

The HGS has a modular design consisting of either single or multiple stages to suit the separation of the material. Each stage or module consists of a short belt conveyor to transport the material continuously to the magnetic pulley of the STEINERT HGS which generates a high magnetic field gradient and a magnetic field strengths of up to 20,000 Gauß. The open design of the STEINERT HGS allows the processing of particles from 10 mm to less than 1 mm in size. The STEINERT HGS is the most modern state-of-the-art technology in regards to the selectivity, operation and long life to all - components.

### Technology

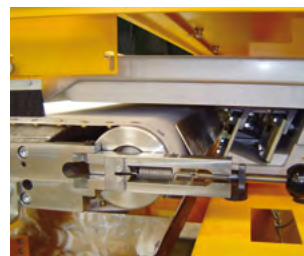
Using a short conveyor belt equipped with powerful neodymium iron boron magnets in its head drum, the STEINERT HGS can separate even weak magnetic mineral components. Magnet and steel discs arranged in an alternating pattern generate the desired high field gradients.

For example, special attention has been given to the conveyor belt such as type and the material that will provide excellent tracking and ease of removal. As with all other STEINERT products, the equipment can be easily adjusted to suit your unique operating conditions:



Working widths of up to 1500 mm, belt thickness down to 150 micron for a maximum field strength and knife splitter for precise separation.

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