



High Gradient Magnetic Separator HGS



heavy minerals • ores • coal • salt • ceramic • glas • slag

One main application for the High Gradient Magnetic Separator HGS is the processing of minerals such as heavy mineral sands, glass sand, ceramic raw materials, salt, slag, fine coal and other fine ores that contain feebly or paramagnetic particles that need to be separated. Leading edge technology is required to meet these duties of separation for either the removal of impurities or the recovery of valuable minerals. The **Steinert**

HGS provides the performance for these critical separation applications, the high magnetic field gradient and the reliable design. 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 HGS which generates a high magnetic field gra-

Models



cient 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. 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.



Suspension Magnet



Magnetic Head Pulley



Magnetic Drum



High Gradient Magnetic Separator



Eddy Current Separator



Cleaning Magnet



Induction Sorting System



Colour Sorting System

Types	Working width
	mm / inch
HGS 50	500 / 20
HGS 100	1000 / 40
HGS 150	1500 / 60

We conduct tests with your material in our R&D department

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