

ELMECH&GIG pneumatic sorter



Technology description

The ELMECH & GIG sorter was developed in response to a clear demand which has been reported for an extended period of time by the mining industry. The device allows the precise separation of material fractions, differing in terms of grain density and the aerodynamic drag coefficient - mainly rock materials. The ELMECH & GIG sorter is dedicated primarily to the separation of raw materials and other fractions containing coal grains in a dry or wet state. The pneumatic separation process carried out with the use of this device makes it possible to more than double the ash content in the concentrate and leads to an increase in calorific value, depending on the type of feed and its grain class.



Application

The main groups of materials suitable for the separation process are:

- solid fuels
- rock raw materials with diversified grain density
- rock raw materials with varying aerodynamic drag coefficient
- plastics

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The advantages of this technology

The device allows feed separation in a dry and wet state. Thanks to the use of a modular construction, it is completely mobile, which makes it possible to shorten the installation time in the target place and leads to the ability to start production immediately.

The process is fully automated and optimized in terms of efficiency, final product quality and separation costs. A particularly important parameter is the low energy consumption in relation to the mass of separated materials.

