

DECANTER CENTRIFUGES & PLANTS FOR SOLID/LIQUID SEPARATION



EFFICIENT PROCESSING OF MINERALS AND ORES - WITH HILLER DECANTER TECHNOLOGY

SUSTAINABILITY AND ENVIRONMENTAL PROTECTION IN MINING

The responsible handling of our earth's raw materials is becoming more and more important. Demands on the industry are growing with regard to sustainability and environmental protection and the processing of ores and minerals play a considerable role in this.

Over many decades HILLER has developed and manufactured decanters and associated equipment for solid/liquid separation. With our experience we support our customers in meeting the set

requirements by efficiently and economically finding and implementing optimal solutions.

The processing of minerals and ores is multifaceted and offers many possibilities for the use of centrifuges.

These can be used for the:

- dewatering
- thickening
- separating
- classification

process - dependent in 2- or 3-phase.

HILLER - ADVANTAGES

- highest dry matter content in the discharge
- less energy use via energy efficient construction of the equipment
- lower maintenance costs and longer lifespan
- longer intervals between servicing and shorter repair times
- greater automation and easier servicing
- more effective wear & tear protection

ECONOMY & SERVICE

The enormous savings on operating costs and the high quality and purity of the end product lead to a faster return on investment.

Additional to the protection of the environment, the HILLER decanter technology achieves a lower energy and water consumption and higher purity of the end product.

Adding considerably to the economy and efficiency of the whole process. Additionally, a longer lifespan and less downtime adds to higher cost efficiency.

To this end HILLER delivers, in accordance with customer requirements and needs, partial and complete solutions with the suitable components ready-built, in compact or turnkey plants along with support for the process design and optimisation.



PROCESSING OF ORES

The processing of ores plays a major role in the production of metals by preventing many problems during smelting. As a consequence the use of decanters enables efficient and environmentally sound processing.

Decanters can be used in the processing of the following:

- cobalt
- copper
- silver
- gold
- nickel
- zinc
- platinum

PROCESSING OF MINERALS

The processing methods for minerals vary considerably, like their application possibilities such as are found from the ceramics industry to cosmetic and paint industries. The processing extends from a purely mechanical to a chemical process.

Amongst other minerals decanters come into use in processing the following:

- calcium carbonate (GCC and PCC)
- feldspar
- lithium
- gypsum
- titanium dioxide
- clay
- kaolin
- zeolite

