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## Herding **FLEX**

## HERDING FLEX PRODUCT DESCRIPTION

### The flexible filter units series

With the Herding® FLEX series, all proven advantages of pure surface filtration with the Herding® Sinter-Plate Filters are implemented in a compact and space-saving manner. The filter unit series is extremely flexible for volume flows of approx. 500 m³/h up to several 100,000 m³/h.

The filter units of the FLEX-series are equipped with vertically installed Sinter-Plate Filters. Depending on the requirements, Herding® DELTA, DELTA² or HSL filter elements are being used. Unit safety and performance according to the current ATEX-guidelines are coordinated with the unit operator, if required.

The upper part of the filter unit consists either of an integrated fan unit or as a simple housing cover with external fans. The outlet of the clean gas can be designed very flexible, ranging from a simple discharge opening through a discharge grid, to various connection possibilities (flange, beading, smooth) to standardized or individual clean gas ducts.

The Herding® Sinter-Plate Filters are the centerpiece in the central part of the filter as well as the interface to the raw gas inlet and the integrated Jet-Pulse cleaning with compressed air supply tank and the integral solenoid valves. All components that are relevant for maintenance are easily accessible from the front side.

The lower end of the unit is formed by the dust discharge. It can be designed individually, according to the particular application and customer requirements. In its simplest form, it consists of a discharge hopper with a dust collecting bin. There are also rotary air lock feeders, screw conveyors, flap systems, pneumatic discharge systems or various customized discharge systems adaptable.



## HERDING FLEX PRODUCT FEATURES AND OPTIONS

- » Constant operating conditions by surface filtration
- » Highly efficient cleaning system at a low and energy-saving consumption of compressed air
- » Maintenance doors as displacers with extremely stable stiffening - no escaping of dust
- » Separate valve compartments for the inspection of the dedusting-system during operation
- » Project-specific design of the dust discharge
- » Flow guidance for energy optimization, effective pre-separation and sedimentation
- » Access to all relevant components from the front side
- » Due to the modular design, operating volume flow rates can be up to several 100,000 m³/h
- » Filterelements Herding® DELTA, DELTA², HSL are available in non-chargeable or antistatic versions
- » Constructive equipotential bonding of the filter unit
- » Constructive explosion protection, inter alia, with Herding® FLAMELESS
- » Fire protection systems, inter alia, Herding® FLAMEBREAK as object protection
- » Integrated pre-separation systems
- » Herding® MULTICOATER for sticky products
- » Microprocessor control Herding® MP 12 or project-specific control systems
- » Herding® FIRST RINSE for the preparation of a filter change free from contamination

## APPLICATIONS OF HERDING FLEX-SERIES

The Herding® FLEX filter unit series is particularly suitable for separation or product recovery of very fine, sticky or abrasive dusts.

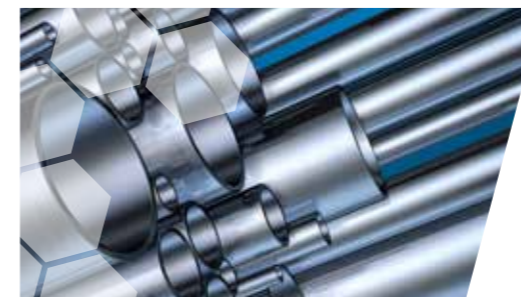


### PHARMACEUTICAL SOLIDS PRODUCTION

Various filtration requirements arise in the pharmaceutical solids production, e.g. at the tablet forming, granulating, film coating and the general handling of solid drug forms. The robust Sinter-Plate Filters as Dust-Barrier with its extremely low clean gas values, the possibility of the Herding MULTICOATER to even deal with extremely adhesive coating processes, high availability as well as peripheral solutions such as Herding First Rinse for contamination-free filter change and Herding SAFE CHANGE - dust discharge, predetermine the FLEX series to be used in pharmaceutical production.

### ENAMEL COATING

During the electrostatic enamel-coating, laminar flow conditions and a constant volume flow rate are of vital importance for an ideal and efficient surface coating. In addition, the enamel dusts to be extracted may be highly abrasive. A contamination-free product recovery of the enamel-overspray is possible with the absolutely fiber-free and abrasive-resistant Sinter-Plate Filter-elements, because the chance of impurity of the powder is eliminated. The pure surface filtration and the robustness of the rigid body elements are the essential reasons for the use of Herding® Technology in the enamel industry.



### STEEL TUBE PRODUCTION

The production of seamless tubes imposes very high standards on the availability of the overall process including the filter unit.

It is important to ensure that the filter unit continuously sucks away the mixture of steam, metallic oxides and graphite while indenting, shaping and during the rolling process, otherwise the surface quality of the steel tubes decreases due to impurities.

### CERAMICS AND STONE INDUSTRY

The treatment and processing of mineral materials often generates heavy dust emissions. The crushing, sieving and conveying during the mining of natural stones, the cutting, drumming or rumbling at the finishing steps of natural or concrete stones as well as all processes in the ceramics industry create dusts. The fineness and abrasiveness of those dusts place the maximum demands on filter systems. Especially the fine quartz dusts, i.e. the respirable crystalline silica, which is described in the TRGS 559, among others, require the most secure and reliable collection and filtration. The separation performance of the Herding® Sinter-Plate Filter offers optimal conditions for this.



**Other areas of application for the Herding FLEX series can be found in the following industries:**

Automotive, additive manufacturing, chemicals industry, color pigments, glass industry, plastics, food industry, metal processing, wet paint-dry separation, recycling, solar, nonmetallic minerals, cement, etc.

**Our competent sales engineers will be happy to advise you on your individual application!**