



Smartphone?!

Take advantage of our more than 40 years of experience and expertise as a technology leader!



Foto: WEIMAR Porcelain

SAFE AND RELIABLE **DUST FILTRATION**
IN THE **CERAMIC INDUSTRY**

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FILTERTECHNIK

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Herding® FILTER SYSTEMS

THE TASK

Reliable and efficient dust collectors or dust filtration systems are becoming increasingly important in the ceramic industry.

The protection of employees, environment and the machines requires reliable capturing and better filtration efficiencies, not least the possibility for safe clean air return.

Constant operating conditions, the reduction of maintenance costs and prevention of production downtimes should ensure maximum productivity.

The exposure limits for crystalline SiO₂ must be strictly observed. Abrasive mineral particles wear out quickly the conventional woven filter media (bag or cartridge filters) and it is difficult to accomplish the exposure limits.



Dust capturing hoods at a fettling/rim treatment machine

THE SOLUTION

THE Herding® SINTER-PLATE FILTER

Pure surface filtration with the patented Herding® Sinter-Plate Filter has proven itself over many years to be an effective and reliable method of the filtration of dust in all production processes of the different ceramic industries.

Due to its sintered rigid body, the Herding® Sinter-Plate Filter has the highest resistance to mechanical stresses. Wear-intensive flexing work, which is characteristic for conventional filter media, will be eliminated.

Thus, the Herding® Sinter-Plate Filter has no filtration-related wear and is resistant even to high abrasive dusts.



Sinter-plate filter elements Herding® DELTA and DELTA²

THE ADVANTAGES AT A GLANCE

- » Pure surface filtration with the Herding® Sinter-Plate Filter
- » Constant operating conditions and air flows
- » Low maintenance costs due to rigid filter medium
- » No flexing work and thus no wear of the filter media
- » Small space requirement due to compact and customized system design
- » Highest availability and quick amortization
- » Energy-efficient recirculation even with finest alveola quartz dust possible
- » Extremely low clean gas values < 0,1 mg/Am³
- » Contamination-free material recovery due to high degree of separation
- » Herding® Filtertechnik as engineering partner and problem solver

APPLICATIONS INSIDE THE CERAMIC INDUSTRY

The Herding® Sinter-Plate Filter Technology has numerous advantages for a variety of applications. As an example, two application areas are listed:

CERAMICS AND FINE CERAMICS

When spray glazing ceramic articles, laminar flow conditions and constant air flows are of crucial importance to get a proper and qualitative surface coating. The dust to be separated can be highly abrasive. With the absolutely fiber-free and abrasion-resistant rigid Herding® Sinter-plate Filters a contamination-free product recovery of the glaze overspray is possible. Any contamination of the powdered glaze is excluded.



HEAVY CLAY AND REFRACTORY CERAMICS

Heavy clay is a very old part of today's silicate ceramics. The heavy ceramic products include building bricks, roof tiles, building and ornamental ceramics, refractory and acid-resistant ceramics, stoneware and abrasive materials. Shaping, cutting and finishing lines are generating dust. The emissions are reliably captured at the workplace and safely separated with the Herding® filter system.



APPLICATION EXAMPLES OUT OF THE PRACTICE



Filter system for the production of patio slabs and tiles



Filter system technical ceramics

Find more applications for the **Herding® filter technology** in the following areas of the **ceramic industry**:

Technical and high-tech ceramics, ceramic raw material mining, quarrying and processing, enamel ...

Our competent sales engineers will be pleased to help you with your individual application and needs!

