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reine
Produktivität
Herding
FILTERTECHNIK

SAFE DUST SEPARATION

LASERPROCESSING OF METALS AND PLASTICS

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FILTERTECHNIK

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Herding® FILTER SYSTEMS

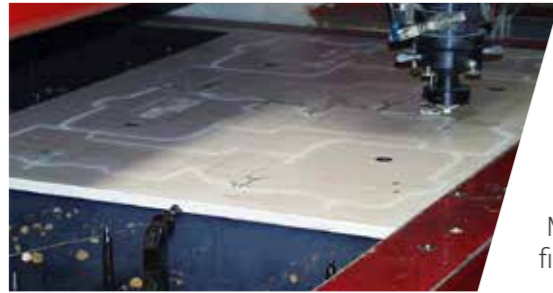
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Pure productivity for the laserprocessing industry

Herding® - a registered trademark // V1.0

THE TASK

LASERCUTTING OF PLASTICS



Within the processes of laser cutting and laser engraving of polycarbonate, sticky fumes are generated. These fumes are harmful to health and cause damage to the laser optical system and machinery. By using the Herding sinter-plate filters a reliable and efficient separation of very fine dust particles < 1 µm is possible. Clogging of the Herding® rigid body filter elements by adhesive fumes is avoided by inserting the Herding MULTICOATER which allows constant exhaust air flows over the filter elements' total life time.

LASERPROCESSING OF METALLS

Laser machining usually generates extremely fine dusts and fumes during cutting and welding processes. The emissions can cause health hazards to the users, they can contaminate and damage the machine, the aggregates as well as the processed material. Furthermore, the generated dusts can even be highly combustible and/or sticky. The Herding COMP options package offers the optimal system configuration with regard to process and safety requirements.



WELDING FUME EXTRACTION



Photo © ERLAS

Various welding tasks have to be solved in the sheet metal working industry. The processed coils are sometimes oily respectively polluted with drawing grease. The generated, mostly sticky and inflammable fumes have to be collected reliably at the working stations and separated safely by the Herding® filter system. Clogging of the filter elements is avoided by using a Herding MULTICOATER and thus the process reliability is increased.

THE SOLUTION // THE Herding® SINTER-PLATE FILTER

Pure surface filtration with the patented Herding® sinter-plate filter has proved itself best in processing of metals and plastics.

Due to its sintered rigid body made of polyethylene the Herding® sinter-plate filter shows highest resistance against mechanical stress. Wear-intensive flexing, characteristic of conventional filter media, is eliminated.

Consequently, the Herding® sinter-plate filter is not subject to filtration-related wear and even resistant against abrasive dusts.

THE Herding® SINTER-PLATE FILTER

THE BENEFITS

- » Pure surface filtration with the Herding® Sinter-plate filter
- » Constant operational conditions and extraction volume flows
- » Low maintenance costs due to rigid filter body
- » No flexing work and thus no wear prone to filtration
- » Small footprint by a compact and customer-specific filter system design
- » Highest availability and fast amortization
- » Extremely low clean gas values < 01. mg/Am³
- » Herding® Filtertechnik as engineering partner and problem solver



Sinter-plate filter Herding® DELTA²

THE Herding® MULTICOATER

The Herding MULTICOATER 55/1 and the Herding MULTICOATER 250/1-4 are pneumatically driven metering systems for the quantity-controlled addition of additives in the filtration process. Sticky particles irreversibly block up the filter medium. Flammable dusts increase the chance of fire in the de-dusting unit. The dosed addition of suitable additives in the filtration process can reduce the risk of filter medium blockages as well as the combustive nature of dusts.

Usually the filtration support substance is a pre-coat material, which is in use to protect the filter elements. The materials support the removal of fluid and gas forms in the exhaust fumes or raw gas due to their adsorptive and dispersive nature.

THE ADVANTAGES

- » Increased process safety
- » Long product life of the filter elements
- » Mobile on rollers
- » Simple installation
- » Dust free filling
- » Reduction of fire risk



Pneumatically driven metering system Herding® MULTICOATER 55/1

AREA OF APPLICATION

Laser cutting, Laser welding, cutting plastics etc.

Our sales team of engineers are ready to advise you on your individual needs.

