

APPLICATION

THE TASK

Window interlayers used in the automotive industry ensure safety, protection and energy benefits while offering stylish color options. During the production process, no dust particles should be present, as they are in a clean-room environment produced in order to ensure optimum quality.

Some dust particles were not captured by the existing dust collection system, and the inlets for raw material and discharge points presented dust clouds on every loading cycle. Over the machinery and on the floor were dust and material that could be a risk for the personnel and machinery. Frequent maintenance and cleaning work were the result.

Proper filtering and ventilation will eliminate nearly all dust. This will improve the safety for personnel, the cleanliness of working areas and production machines, and the quality of the product. The customer required a correct design of all dust capturing and the possibility to reclaim the captured material.



THE SOLUTION

The complete process line was examined in order to determine and to design the real emission points. Enclosures, hoods and slots were installed at the connection points. The open emission points were enclosed with hoods, in order to optimize the dust removal.

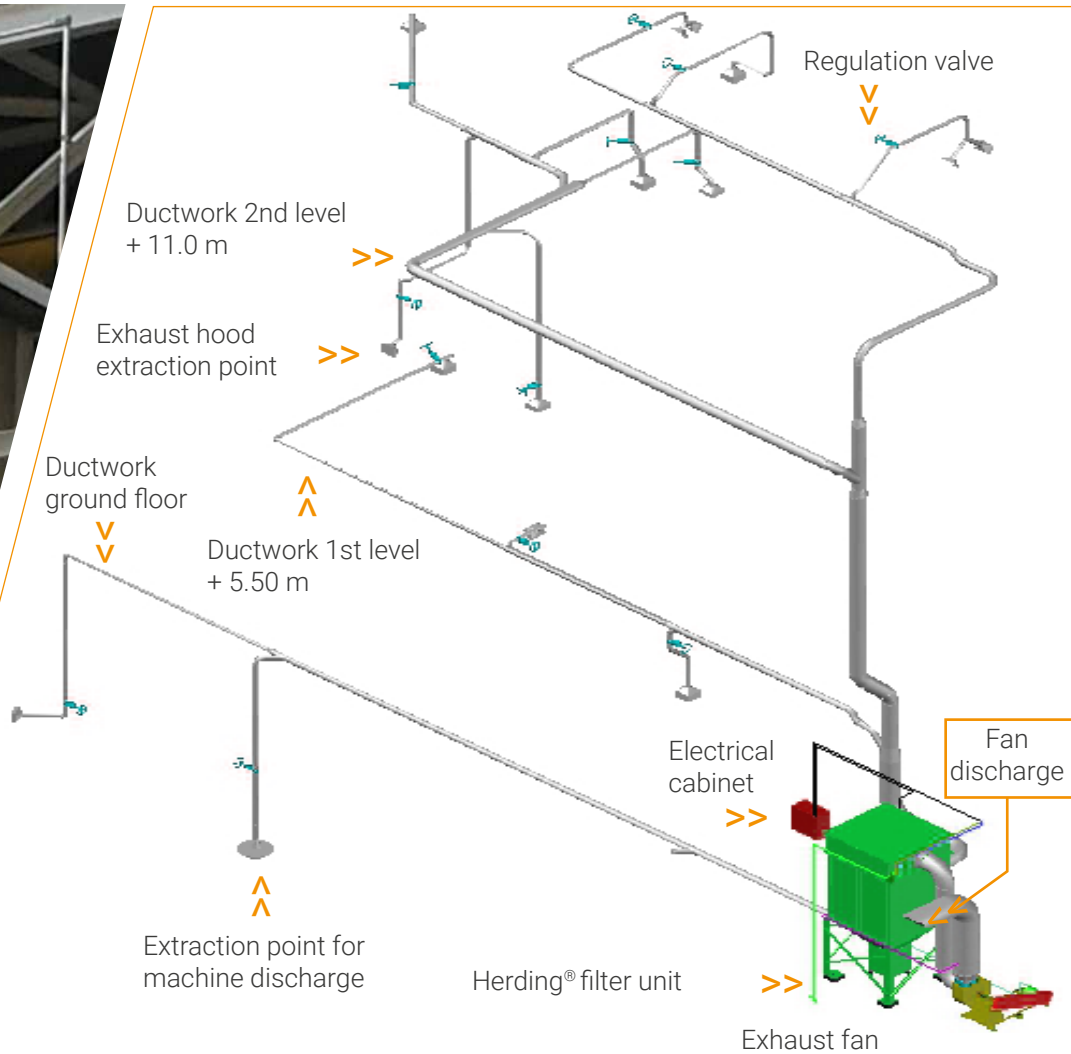
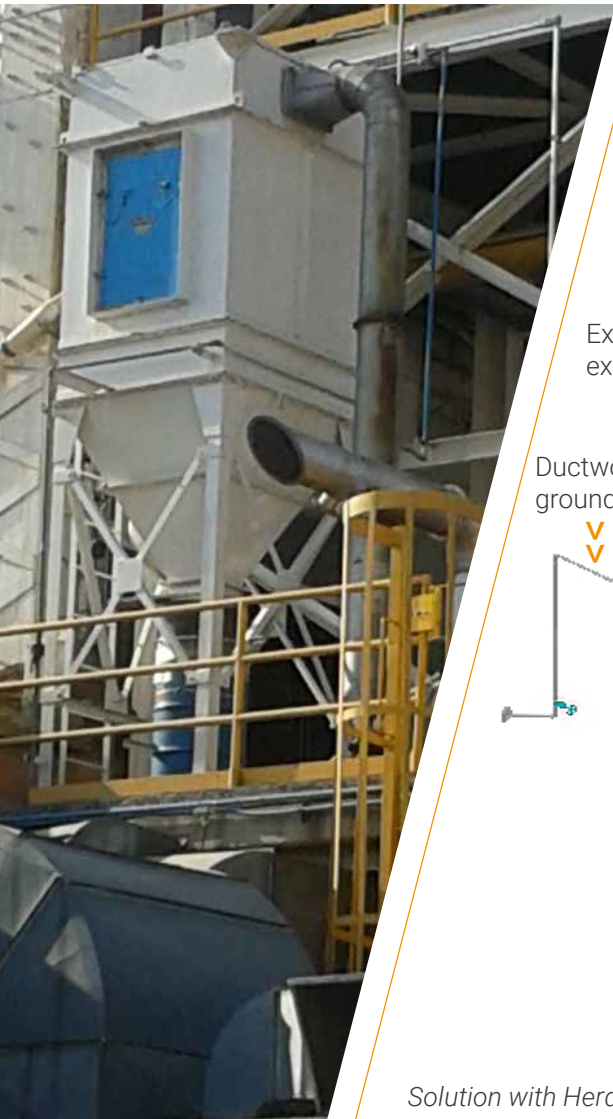
In order to collect and deposit the dust in a safe way, an air flow calculation was performed. Based on a transport speed (≥ 18 m/s). New ductworks were installed.

Filtersystem Herding® FLEX 1500-30(32)/9E

- » Air flow: 7,050 m³/h
- » Dust: Polyvinylbutyral (PVB) resin
- » Filtration area: 142 m²
- » Temperature: 15 °C to 40 °C
- » Automatic jet-pulse cleaning



PROCESS // PLASTIC LAYER FOR WINDSHIELDS



Solution with Herding® filtersystem design

ADVANTAGES OF THE Herding® SINTER-PLATE FILTER

- » High separation efficiency
- » Constant operating conditions and stable air flow due to surface filtration
- » Low maintenance costs due to the rigid filter medium (no flexing and no wear)
- » Low space requirement due to compact and customer-specific system design
- » Long service life ensures low servicing costs
- » Herding® Filtertechnik as an engineering partner and problem solver
- » Very low clean gas values

Herding® is a registered trademark // V1.0

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