

■ Process: Dedusting of PC-board production



■ The Task

During the production of PC-boards holes are drilled for the later mounting of electric devices. Furthermore, the boards have to be cut on all edges.

The applied machines are typically equipped with up to twelve working heads. The generated dust at each head is exhausted directly at the head to keep the machine and the boards free of dust.

This is a must in order to guarantee an exact and reproducible position of the hole as well as error-free mounting and soldering of the electric devices.

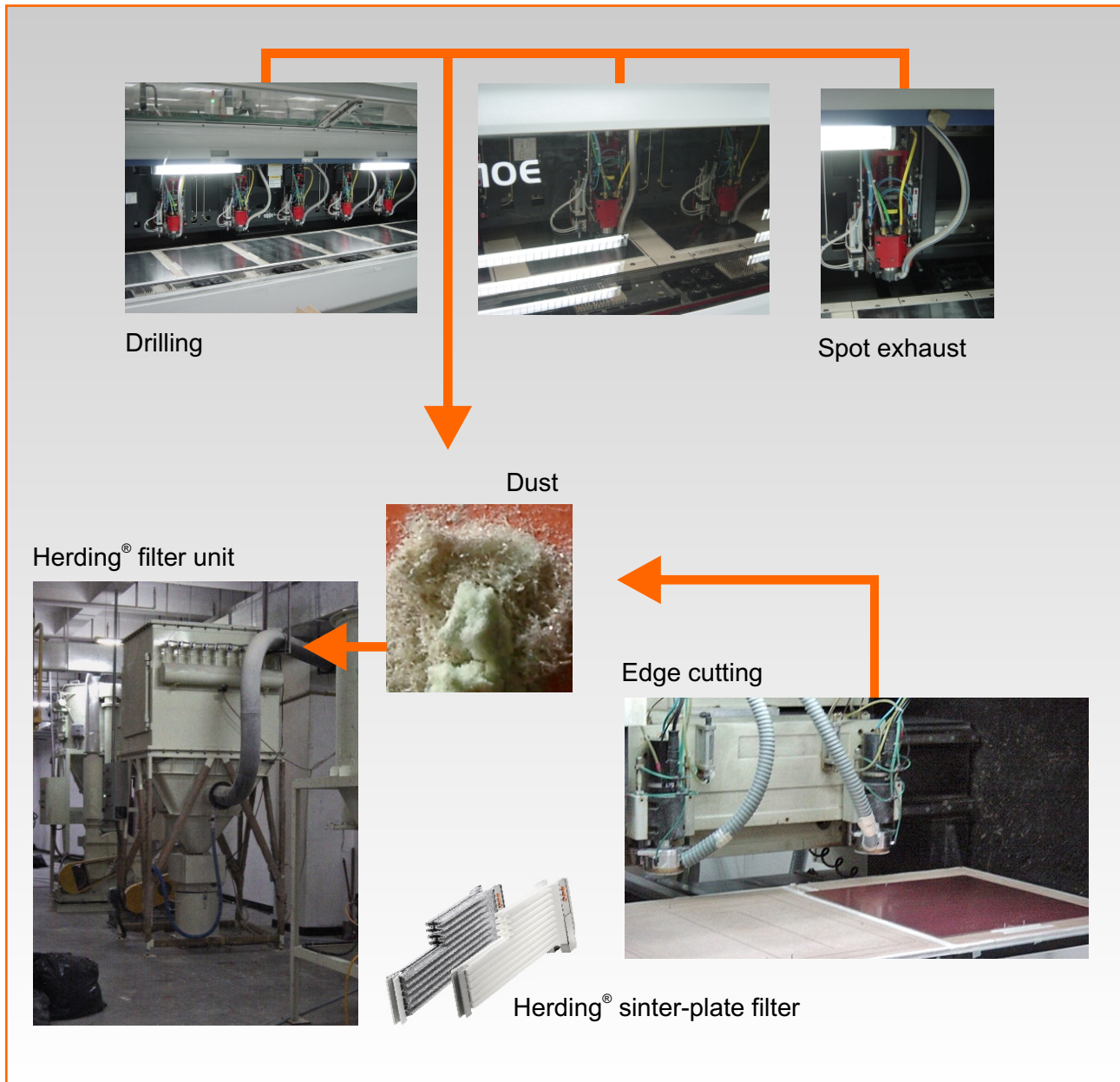
Capturing is done through a spot exhaust via a small hood directly at the working head. The single air streams are directed via flexible tubes out of the machine in order to achieve free positioning ability for the working heads.

■ The Solution

Herding® Filtration System for the Production of PC-Boards

- ▶ Air flow from 2,000 to 4,000 m³/h and more
- ▶ Free available negative pressure before the filter unit of 24,000 Pa
- ▶ Filter unit design for high negative working
- ▶ Cleaning strategy and unit design optimized to cope with the extremely fibrous dust
- ▶ Useful lifetime of up to 10 years guarantees optimum up time especially for multi shift operation
- ▶ Constant pressure drop and constant air flow due to pure surface filtration guarantee safe capturing of all dust and thus optimum PC-board quality
- ▶ Consistency of < 1mg/m³ and classification as HEPA filter class R (EU 12) enables recirculation of the exhaust air into the working environment which is under climate control

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■ Advantages of the Herding® Sinter-plate Filter

- ▶ Constant product quality due to constant exhaust air flow
- ▶ Rigid body with extremely long lifetime guarantees high resistance against high negative pressure, high up time and thus pure productivity
- ▶ Consistency of $< 1\text{mg/m}^3$ allows recirculation of the exhaust air back into the working environment which is under climate control; operational costs decrease remarkably

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