Packaging

CASE STORY

Model AG, Weinfelden (Switzerland)

Dedusting system: an investment that pays off

In October 2024, Model AG in Weinfelden commissioned a Chroma X Pro 2100 flexographic printing machine. Both the machine and the working environment are kept clean by a dedusting system.

Paper and cardboard dust is omnipresent in packaging production and acts as a significant disruptive factor. Contamination of buildings, the working environment, and machines increases the need for cleaning. Dust affects employee health, the availability of production technology, and the quality of print results.

Problem identified and solved

Model AG in Weinfelden has recognized the dust issue. Since October 2024, the company has been printing on a Chroma X Pro 2100, a corrugated board printing machine from Koenig & Bauer Celmacch with seven flexographic printing units. The printing machine is connected to a dedusting system from Hunkeler Systeme AG. Dust-laden air is extracted at the machine, filtered, and returned to the production environment in a cleaned state. It is the most modern of several dedusting systems that contribute to a clean room climate at Model AG. The dust retained in the filters is collected in containers and disposed of.

The supply air required by the Chroma X Pro 2100 also undergoes a cleaning process before being fed to the printing machine. A fan with an integrated filter reduces the dust content to a possible minimum. Cleaning the supply air im-

Process air cleaned in the dedusting system contributes to a clean room climate free of cardboard dust.

Dust removal from the supply air results in low cleaning costs and perfect printing results.

proves the quality of print results and significantly reduces the cleaning effort inside the Chroma X Pro 2100.

Performance dynamically controlled

Over the lifetime of the filter elements, the filter resistance increases despite an automatic cleaning function. In the interest of minimizing electrical energy consumption, a frequency converter continuously regulates the power consumption of the dedusting system. Thanks to this dynamic regulation of energy consumption, Model AG conserves resources and simultaneously saves on operating costs.

A fan with an integrated filter removes dust from the supply air before it enters the Chroma X Pro 2100 flexographic printing machine.

Proven technology

The Chroma X Pro 2100 operates in three shifts. To ensure smooth operation, all peripherals connected to the flexographic printing machine must also be absolutely reliable in continuous operation. Model AG knows from experience that the systems designed and installed by Hunkeler Systeme AG function reliably and contribute to cost-effective production.

"With the new dedusting system from Hunkeler Systeme AG, we are continuing a long-standing partnership."

Thomas Weibel
Project Manager, Model AG, Weinfelden

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