

■ Process: Rotogravure illustration/offset printing press



■ The Task

Where rotogravure illustration/offset printing presses are used for large runs of print media, large amounts of paper dust are generated at the point where the rotating knives are in action.

To protect the print medium, the printing press and the operators, this dust has to be separated with the use of a filter. The dust, which comes from the residue from cutting, is fine and has left-over ink stuck to it.

With solvent residue also included in the range of dust to be separated out, measures to prevent the risk of fire or explosion are also required.

■ The Solution

Herding® filter units with the sintered plate filter

Characteristic features:

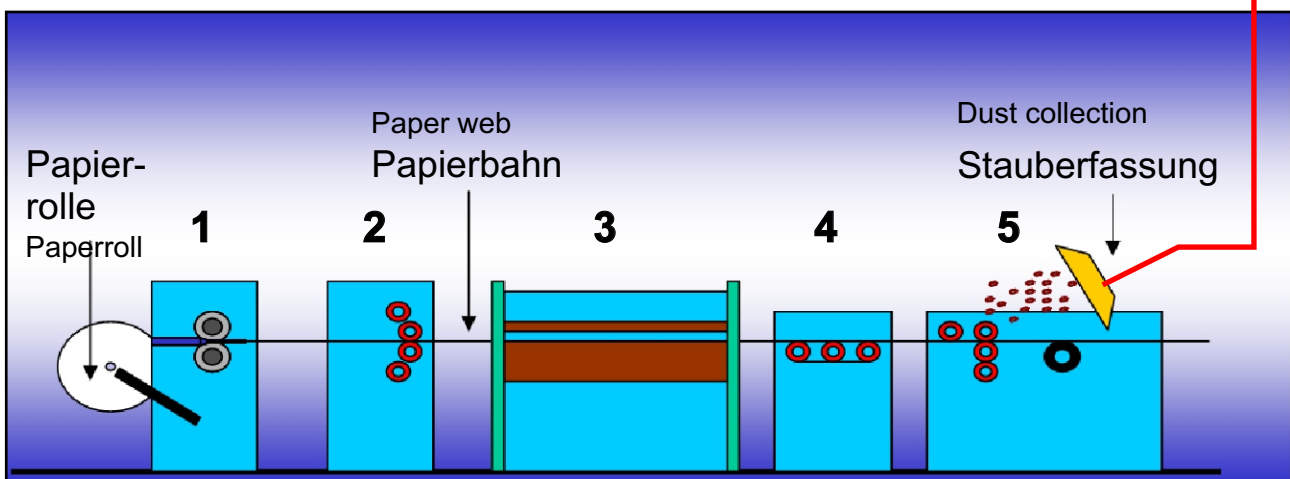
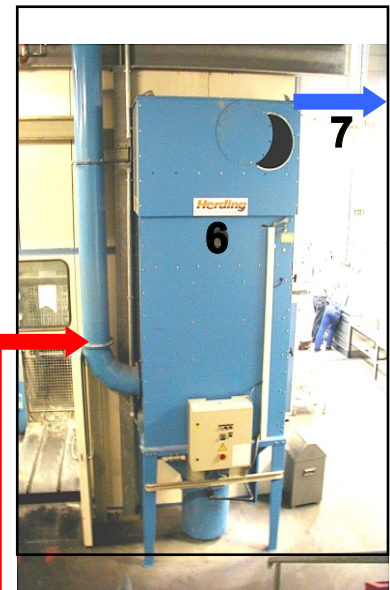
- ⇒ Air volumes of 750 to 6,000 Bm³/h, depending on the size of the printing press, with integrated fans; dust discharge to collecting bins with automatic earthing
- ⇒ Residual dust concentration < 1mg/m³
- ⇒ Reliable and cost-effective separation of dust with a Herding sintered plate filter
- ⇒ Very long lasting filter medium as a result of consistent surface filtration
- ⇒ Possibility of recirculation of the purified air to the working space
- ⇒ Anti-static filter elements and equipotential bonding for the prevention of effective ignition sources

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Illustration based on the example of a rotary offset printing press

- ⇒ Reelstand / infeed unit
- ⇒ Printing unit (possibly several)
- ⇒ Drier
- ⇒ Chilling roller stand
- ⇒ Cutting unit
- Herding® filter unit
- ⇒ Clean air recirculation



Herding® sintered plate filter

Advantages for use in the printing industry:

- ⇒ Very high availability due to extremely long lasting sintered plate filter
- ⇒ Residual dust concentration < 1mg/m³ clean air return possible (airborne substances category R (EU 12))
- ⇒ Large relative filter area, hence low pressure loss
- ⇒ PTFE-coating, consistent surface filtration
- ⇒ Compact rigid body; therefore no flexing in the filter medium and high resistance to damage
- ⇒ Antistatic filter elements

Herding GmbH Filtertechnik
August-Borsig-Str. 3
92224 Amberg/Germany

Telefon: +49 (0) 9621 / 630-0
Telefax: +49 (0) 9621 / 630-120
info@herding.de
www.herding.com