



Bild 1



Bild 2

## HOFFMANN Maschinen- und Apparatebau GmbH System Provider for Filter Technology

Filtration and cooling systems for cooling lubricants are the specialty of Hoffmann Maschinen- und Apparatebau GmbH, based in Lengede, Germany.

A particular specialty are the suction belt filters which have been successfully in use in the grinding machine industry for years.

This year the suction belt filter product line has been expanded by two new models.

The suction belt filter HSF 60 SE completes the product line for small amounts of cooling lubricants. It is used for grinding processes with oil or emulsion for filtration capacity up to 200 l/min.

The new suction belt filter HSF 300 SE acts big with a filtration capacity of up to 1000 l/min, which will be achieved with one single filter unit.

All suction belt filters can be combined modularly. This leads to tailor-made central units with low space requirements for the supply of machine tools with finely filtered cooling lubricant. In order to guarantee this quality, all Hoffmann products are in constant development. The same is true for the suction belt filter.

The core piece of the filter unit is the in-house manufactured plastic filter belt, which according to different grades of filtration, will be tailored to the application at hand.

Where energy efficiency is concerned, unnecessary drives are avoided by a straightforward construction. The remaining pumps and drives are configured and adjusted in the best possible way.

The handling of resources is also gentle: besides the enhanced service life of the tools and a higher surface finish of the work pieces, due to the finely filtered cooling lubricant, the integration of a drying station results in minimum residual moisture of the discharged filter cake. This considerably reduces the top-up quantity of cooling lubricant.

The suction belt filter type HSF SE with continuous plastic filter belt is particularly efficient compared to a filter unit running with filter paper which has higher maintenance requirements and no drying station available. More than 20.000 Euros can be saved per year when running the filter system with grinding oil and a filtration capacity of 300l/min, working in three shifts.



Bild 3  
(Werkbilder: Hoffmann Maschinen- und Apparatebau GmbH, Lengede)

To complete the customer's tailor-made filter unit, everything is built in-house by the Hoffmann Maschinen- und Apparatebau GmbH, including the electrical control for the fully automated function of the filter units and especially the cooling units for one or more cooling circles (e.g. for grinding oil, spindle, hydraulic).