

FILCOM Application example – Factory Equipment

FG Hydraulic filter elements in machining



Factory Equipment

Initial situation

Stettner Zerspanungstechnik GmbH, located in Etzbach, has been manufacturing high-quality series and small series parts as well as complex individual parts according to individual customer requirements on modern CNC machining centers since 2000. Highly sensitive systems in the milling sector require effective filtration of the fluid media from solid or liquid contaminants that cause abrasion, wear and corrosion.

With state-of-the-art machinery, the company manufactures, among other things, mounting shells, valve blocks or even bearing housings. Here, filter systems from Filtration Group Industrial make decisive contribution to protecting the sensitive hydraulics of the milling machines by keeping fluids in the circuit clean.



Solution statement

- The powerful duplex-filter of the Pi 370 series with nominal size 300, reduces solid contaminants to the prescribed cleanliness class at Stettner Zerspanungstechnik GmbH.
- The filter prevents the ingress of dirt from the environment and maintains the properties of the pressure fluid over a long period of time.
- At Stettner Zerspanungstechnik, the filter elements used deliver top results in every desired cleanliness class and impress with their high dirt-holding capacity.
- The patented design with robust parts ensures the longevity of the filter system and stable performance over the entire service life.

Customer value

- The use of FG filter systems gives the customer a very clear advantage here: longer service life, more reliability, cost-saving operation and higher efficiency and cost-effectiveness of the systems.
- Thanks to the use of efficient filter solutions, Stettner Zerspanungstechnik can produce high-quality products efficiently, safely and economically, without process interruption during filtration.
- Thanks to optimal particle separation, the filter systems used protect against rapid wear of expensive components on Stettner Zerspanungstechnik's CNC machining centers and thus prevent high maintenance costs.



Challenge

In high-quality hydraulic and lubrication systems, duplex filters take on the role of a working filter with defined oil purities and ensure reliable operation without downtime.

Filter elements are the actual component of the filter in which the filtration process takes place. For the filtration of hydraulic and lubricating oils, FILCOM offers surface filters made of stainless steel wire mesh with a very low flow resistance.



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