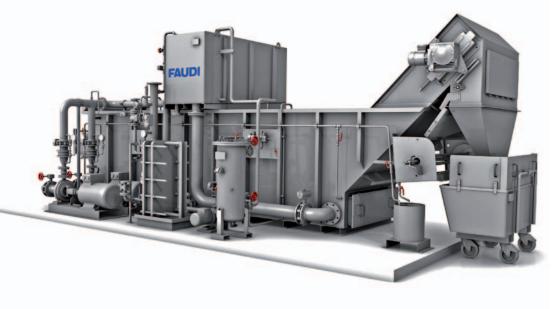
FILTRATION IN PERFECTION



VACCUUM FILTER FUF NON-WOVEN FABRIC AND ENDLESS BELT







COOLANT CLEANING WITH FAUDI VACUUM FILTERS

Cooling lubricants used in machining primarily serve to dissipate heat generated during processing, reduce friction between the tool and work piece, and transport chips away.

For turning, drilling, milling, honing, grinding, rolling or finishing, such lubricants only ensure optimum cooling and lubrication performance if they are thoroughly cleaned before they are returned to the application location.



A thorough cleaning extends the lifespan of cooling lubricants and improves the surface quality that can be achieved during processing.

Vacuum filters are used to clean dirty cooling lubricants in metal processing, preferably in the form of central cooling lubricant systems with a high flow rate. The main advantages of these systems are their practicability and the ability to adapt to various operating conditions.

FAUDI vacuum filters are universal in application and suitable for cleaning

- Cutting, grinding and rolling oils
- Emulsions
- Watery solutions

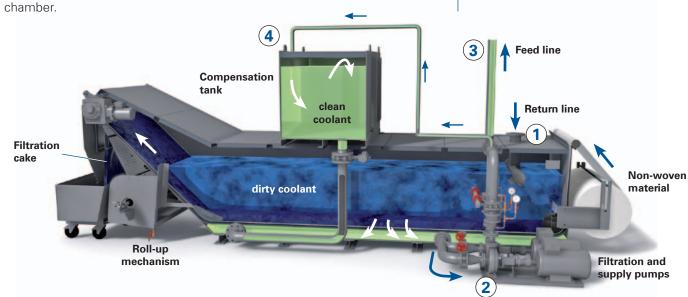
The range of separation is 20 to 100 µm depending on the material being processed, the machining process and the filter material used.



FILTRATION AND REGENERATION PRINCIPLE

Filtration

- (1) Dirty coolant is conveyed from the machine tool to the dirt tank of the vacuum filter.
- (2) A filtration and supply pump suctions the cooling lubricant through the filter medium into the vacuum chamber.
- 3 At the same time, the pump conveys the previously cleaned cooling lubricant out of the vacuum chamber back to the machine tool.
- (4) Part of the flow fills the compensation tank.



Regeneration

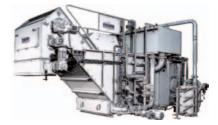
(5) Once the specified vacuum or a 6 The dirty non-woven material is preconfigured filtration time is ejected from the filter by rotary reached, regeneration of the filter scrapers in the filter. is initiated. For this purpose, the (7) After scraping off the dirt, the shut-off valve is opened and clean used non-woven material is rolled cooling lubricant from the balanup by a winder. cing chamber is conveyed into the vacuum chamber. This means that the supply of cleaned cooling lubricant is not interrupted, even Feed line during regeneration. Compensation tank clean **Return line** coolant Filtration cake 5 6 Non-woven material dirty coolant Roll-up **Filtration and** mechanism supply pumps



MODEL SERIES AND VERSIONS

Model series

The lightweight model series has a width of 1,000 mm and is available in sizes from 0.7 to 4.9 m2 filter area.



The heavy models series is offered in widths from 1,500 to 2,000 mm and can be delivered with a filter area of 4.5 to 40 m2.



Versions

In addition to standard operation with non-woven material, the vacuum filters can also be carried out for operation with an endless belt made of plastic.

All model series can be delivered in steel or stainless steel, depending on the field of application and customer preference.

ALL BENEFITS OF FAUDI VACUUM FILTERS – OVERVIEW

- Various model series
- Straight forward and modular structure
- Easy to use
- Fully automatic operation

- Maintenance-friendly
- High throughput
- High dirt loads possible
- Adaptable by using various types of non-woven material



VACUUM FILTER EXTENSIONS FROM THE FAUDI PRODUCT PORTFOLIO

Do you want to improve the filtration quality?

By integrating a FAUDI precoat filter in the bypass to the vacuum filter system, the filtration quality can be improved significantly.

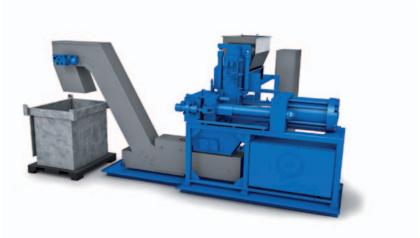


Do you want to reduce the residual moisture content of the filtration cake?

With a FAUDI swarf extrusion press as an extension of the vacuum filter system, the residual moisture of the filtration cake can be reduced to approximately 30 %. This cuts the disposal volume almost in half.



With a FAUDI briquetting press as an extension of the vacuum filter system, sludge and chips can be formed into solid briquettes with a mere 2 % of residual moisture.





We are happy to advise you about other filter systems in our product portfolio.

Cartridge Filter Systems

PreCoat Filter	AS
PreCoat Filter with dry discharge	AST
PreCoat Filter Electroplating	ASG
Regenerable Microfilter	RMF
Backflush Filter	RSF

Belt Filter Systems

Gravity Belt Filter	AFB
Inclined Belt Filter with endless belt	SBE
Inclined Belt Filter with fleece	SBV
Vacuum Filter with endless belt	FUF-E
Vacuum Filter with fleece	FUF
Pressure Belt Filter	DBF

Pressure Filter Systems

High-efficiency Filter	HF
Cartridge Filter	MF
Magnetic Cartridge Filter	MKD

Specials

Magnatic Saparator	MA
Magnetic Separator	IVIA
Magnetic Rod Separator	MSA
Dynamic Skimming Device	SK
Hydrocyclone Unit	HZA
Filter Aid Dosage Unit	FD
Briquetting Press	WSP
Swarf Extrusion Press	FSP



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