

Leiblein

world of liquids



Precoat filter

Technologies for solid/liquid separation

The precoat filter

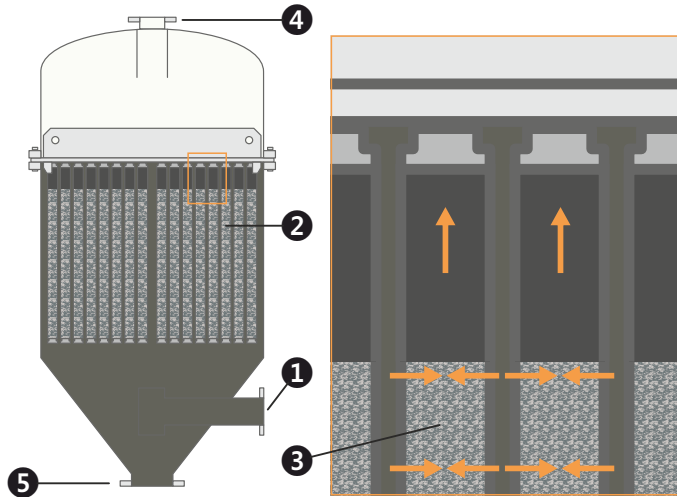
For the fine filtration of oils and baths

Precoat filters are used for the fine filtration of cooling lubricants (oil) during finishing and honing as well as for the filtration of other oils and baths with especially high purity standards. For a consistently high production

quality and surface quality of the processed workpieces, the correct filtration of the cooling lubricants, oils and baths is very important.

Functional principle of the precoat filter

Technology made by Leiblein



Effective filtering by aggradation

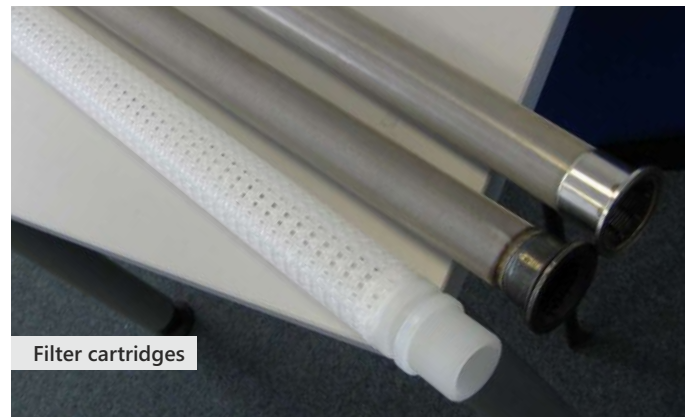
Filter aid (e.g. cellulose) is mixed with cleaned oil for the aggradation and pumped to the filter dome (1). There the suspension is on the filter cartridges and forms a filter layer (2). When it reaches a certain strength the filtration process starts. The contaminated oil is pumped in the filter dome and filtered by the filter cartridges with the cellulose layer from outside to inside (3). When a pressure limit value is reached, the filtration is stopped, the cleaned oil is pumped from the clean tank (4) and the filter dome is backflushed with the help of pressurized air. The content of the dome is completely emptied in an aggradation tank (5) and from there drained using a secondary filter. The aggradation process restarts.

Fields of applications and designs

Multiple applications

Precoat filters are frequently used in the metal processing industry e.g. for filtering particles from honing and grinding oils. They can be equipped with different filter cartridges: Slot screen cartridge, Stainless steel-fabric cartridge or plastic-supporting body-cartridge. The filter surface for each dome is between 10 m² and 60 m².

Through parallel coupling of several redundant filter domes, a large central precoat filter system can be built, which raises the production security to a maximum value.



Filter cartridges



Precoat filter in central system

Higher efficiency

The advantages of our precoat filter

- Excellent depth filtration due to three-dimensional structure of the filter cake
- No response from the internal aggradation aid with the liquid to be filtered
- Very large filter surface in small space due to a large number of filter cartridges in a precoat filter dome

You have questions about the treatment of your medium? Do not hesitate and contact us!

We would be pleased to advise you.

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