



Drum sieve filters

200 - 10,000 l/min

System for the filtration of aqueous cooling lubricants, oils, alkaline liquids and for chip separation.

Liqui
FILTER

pure. clean.

The benefits

- Longer tool service life due to comprehensive processing of cooling lubricant.
- Waste-disposal cost savings.
- High throughput with minimal space requirements.
- Economic filtration of liquids and oils resembling water.
- Separation of large quantities of chips is also possible.

Filter module specification

The filter module consists of a sheet-metal casing to house the drums with the stainless steel sieves, a geared motor and the back-flushing nozzles. The chips are removed by an internal ascending spiral conveyor. The speed of the drum sieve is adjustable.

Function

The liquid for filtration is fed to the filter drum. Coarse solids are removed from the liquid and deposited in the drum. Only filtered liquid flows into the clean tank. The solids are removed by the rotation of the drum and the ascending spiral conveyor. The scraper conveyor in the clean tank transports sediment deposits out into the sludge tank.

Filter efficiency

Using different stainless-steel fabrics enables different separation rates. Flow rates and the purification level achieved depend on the fabric quality used and the viscosity of the filter medium. Purification levels up to 99% can be achieved with a limit grain size of 30, 50, 100, 150, 200 or 300 μm . As a rule, this filter system is used as a coarse or pre-filter or for filtering flushing liquids. This system is especially suitable for the separation of machining chips of almost all types of materials. The separation of hydraulically pumped chips is also possible in particular. Chips are not pumped into the tank but already separated above the liquid level. This filter method is preferable above all others particularly with floating chips. Combination with different other fine filter systems to create a multi-stage filtration system is also easily possible.



Drum sieve with stainless-steel sieves and nozzle carrier



Drum sieve on clean tank with built-in scraper conveyor



Drum sieve on combined system



Drum sieve filter as coarse and pre-filter

Liqui FILTER

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