



ULTRA-FINE FILTRATION

LEHMANN

UMT

ULTRA-FINE FILTRATION

The small difference

Our ultra-fine filtration systems can be configured for a wide variety of applications such as grinding, lapping or honing of hard metals, steels, glass and ceramics. Oils, emulsions and aqueous solutions can be filtered.

Characteristics

High-performance pre-separation by magnet, paper belt or endless belt system

Leads to longer service lives of the filter domes by reducing the dirt load on the ultra-fine filtration

Optionally with lamella separator

Optionally with sedimentation tank

Individual adaptation of the cooling system: plate heat exchanger, immersion cooler or through-flow cooler

Scratch discharge and drying: recovery of the process material, low carryover of process media

Modular construction

Can be designed for multiple processing machines and high throughput rates of up to 500 l/min

Benefits

Increasing the dirt absorption capacity of the oil

Extended service life of the cooling lubricant

Less haze on the workpiece surfaces

Compact system possible: little space required

Optimal cutting performance

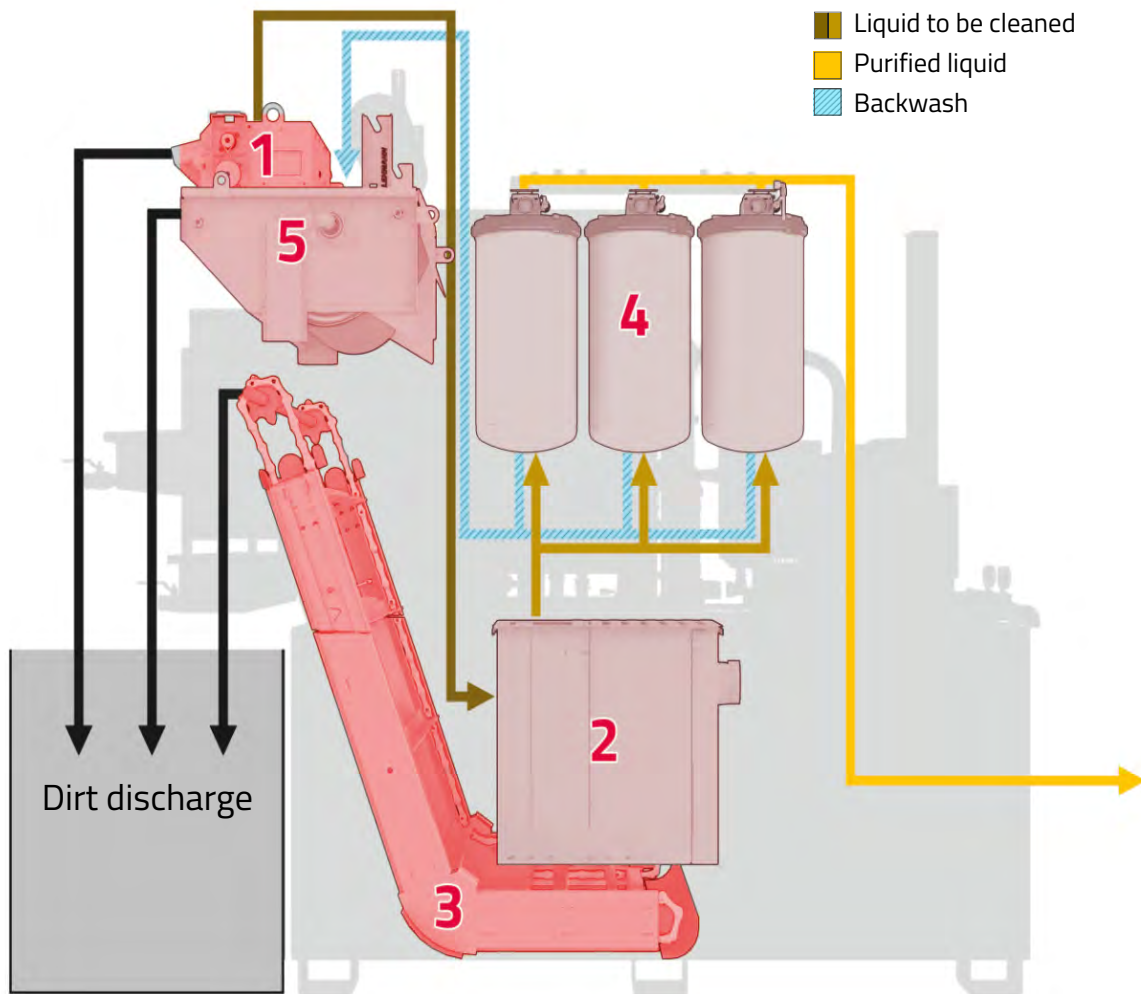
Environmentally friendly

Energy efficient

Works very quietly



Functionality of a 5-stage ultra-fine filter system



1 Magnetic separator

2 Lamellae separator

3 Scraper with drying

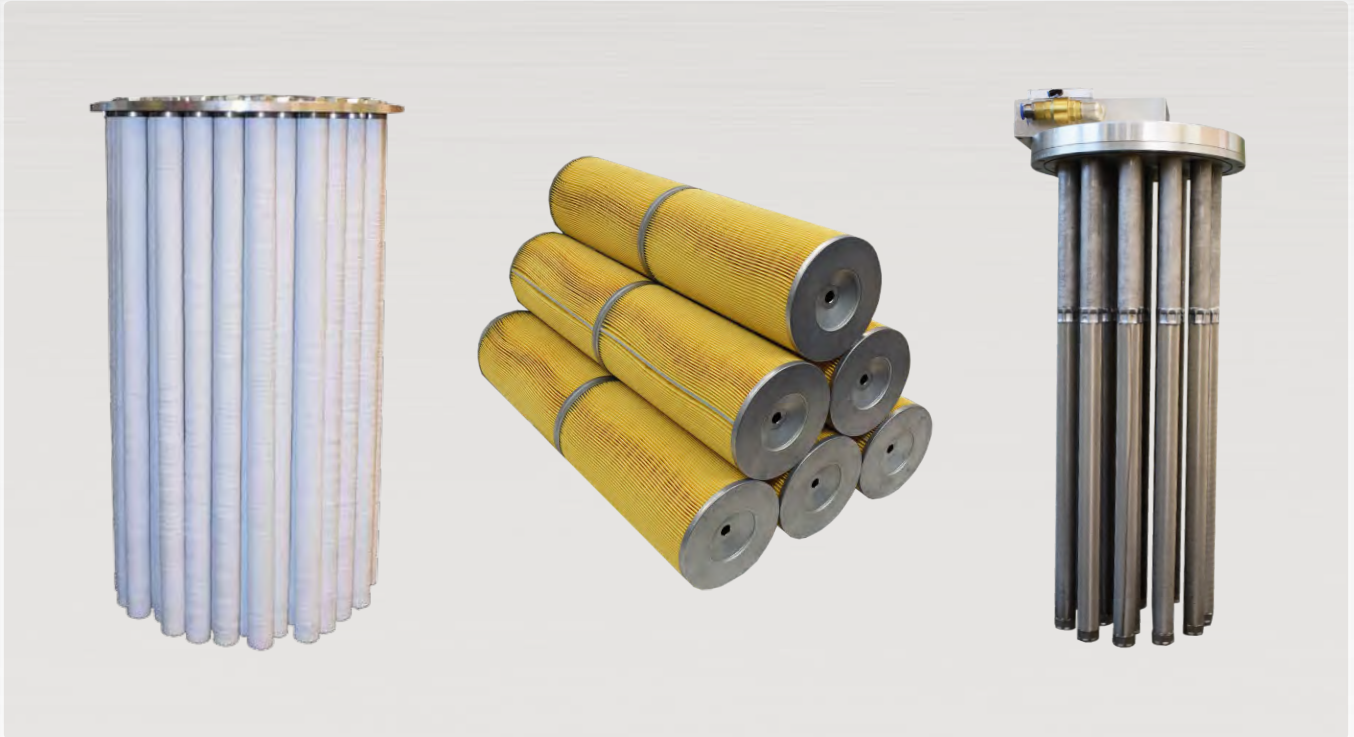
4 Ultra-fine filtration

5 Compact filter



Options for your individual application

The appropriate filter element



The appropriate tank system

Clean tank with automatic cleaning

Dirt tank or concentrator tank

Drying

Scraper barrel with rinsing bar to protect the tank





StingR – smart living technologies

The StingR is a highly intelligent, sophisticated system for maintaining the technological balance – so it's more than just a filter.

Characteristics

Can be used for machining HSS, hard metals and mixed machining

Can be used for highly viscous oils, emulsions, aqueous solutions and process waters

Suitable for processes such as grinding, lapping, honing, eroding, machining

Low follow-up costs, allowing more than 10,000 cycles

High filter sensitivity $<1\ \mu\text{m}$

Worldwide 24/7 service

Adaptation of specific modules

Low investment costs

The systems can be equipped with different filter technologies from our company based on their specific application. These are used in a large number of applications in the following industries, for example: machine tools – & mechanical engineering, chemical industry, environmental plant engineering, water treatment



Your partner for filter technology

Lehmann-UMT is a leading manufacturer of complete plants and components of individual conveyor and filter technology with more than 75 years of experience in machine construction. Rapid reactions to the market development, committed personnel and a qualified counselling of our customers are a safe base for long-lasting success. Challenging solutions for high performance production processes are our passion.



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