



Automatic backwash filter

Selfcleaning scraper filter

Cake filtration

Membrane filtration systems

Precoat filtration

Filter housings

Filter elements

Filter bags



# Filtration and separation technology

Product range



# About us

## Lenzing Technik – Filtration and separation technology

Thirty years of experience in liquid filtration, continuous improvements, high vertical integration resulting from various in-house manufacturing groups and stringent quality standards have made us an international market leader in many industrial sectors.

### Our applications

In addition to a large number of applications for solid-liquid filtration in various industrial sectors, we offer systems specially designed and optimized for specific processes:

- **Pulp and paper industry**

Cost-efficient filtration of large mass flows with low particle concentration. Preparation of process water and treatment of wastewater.

- **Man-made fiber and film**

Long-time market leadership in filtration of high-viscose-spinning and film-casting solutions with automatic backwash filters.

- **Electronics and photovoltaic**

Automatic and manual filter systems for microfiltration of cooling water for wafer manufacturing.

- **Steel industry**

Economical automatic systems for filtration of cooling water circuits with high cinder volumes.

- **Galvanic/Surface treatment**

Automatic filter systems for efficient maintenance of galvanic baths and cleaning and degreasing baths.

- **Water preparation**

Economic systems for automatic microfiltration of river water, seawater and wastewater.

- **Electric power plants**

Micro-filtering backwash filters replace large and costly sand filters in the preparation of boiler feed water and cooling-tower makeup water.

- **Chemicals/paints and varnishes**

Filtration of chemicals, paints and varnishes prior to filling.

### Our systems filter the following fluids

- **Spinning solutions**

(Viscose, acrylic, polyimide, cellulose acetate, spandex, aramide, PVA)

- **High viscose fluids**

(Resins, varnishes, foodstuff, glues, petrochemical products)

- **Chemicals**

(Acids, lyes, solvents)

- **Water**

(Industrial process water, river water, seawater, drinking water, DI-water, circulation water, wastewater)

- **Drinks and foodstuff**

(Juices, wine, beer)

- **Oils**

(Mineral oil, synthetic oil, hydraulic oil, lube oil, gear oil)

### Our expertise

In-house engineering and design department

In-house manufacturing department with up-to-date machining centers

In-house automation department

Piping and apparatus manufacturing for all construction materials

Orientation trials and analyses in our own laboratory

Pilot trials and customer-specific analyses

Turnkey systems

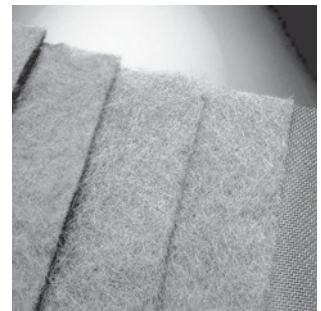


# Product overview

## Filtration from the technology leader

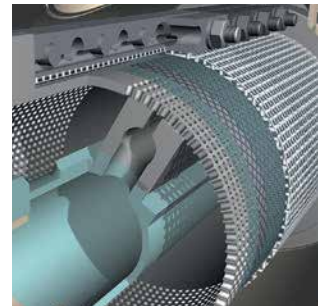
### Automatic backwash filter for high and medium viscose media (AKF, KKF, ViscoFil®)

- Highest viscosity (up to 200,000 cP)
- Filter fineness down to 3 µm absolute with stainless-steel fleece
- High filtration efficiency at high flow rates
- Filter material service life up to two years and 80,000 backwashes
- Practically no operation expenses



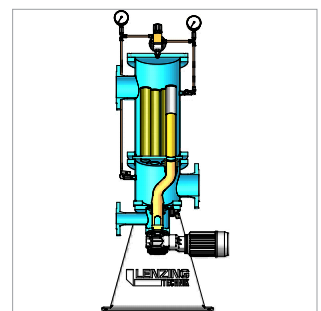
### Automatic backwash filter for fine and microfiltration (OptiFil®)

- Filter fineness down to 3 µm absolute with stainless-steel fleece
- Filter fineness of 1 µm in special applications
- Throughput up to 700 m³/h
- High solid content at lowest reject quantity (patented)
- Low investment costs
- Practically unlimited filter material service life
- Practically no operation expenses



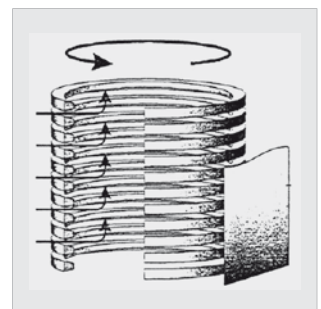
### Automatic backwash filter for cooling and processing water (CanFil)

- Filter fineness down to 50 µm
- High throughput up to 10,000 m³/h
- For low solid content and high quantities of water
- Low investment costs
- Practically no operation expenses



### Selfcleaning scraper filter (AS)

- Filter fineness down to 50 µm
- High solid content
- Robust filter unit
- Effective mechanical cleaning mechanism
- Low investment costs
- High viscosities possible



## Membrane filtration systems

- Drinking and process water purification
- Standard installations for degreasing and oil removal
- Special membranes for high solid concentration
- Membranes for removal of abrasive solids



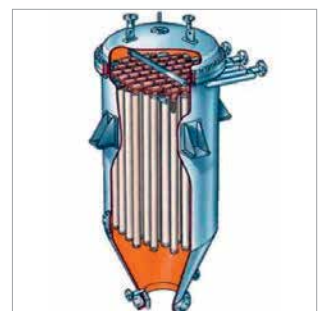
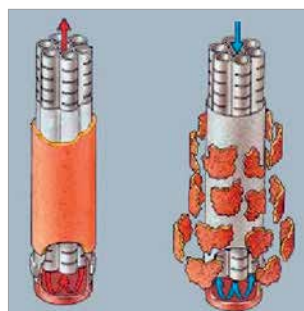
## Cake filtration (CakeFil)

- Filter fineness down to 1  $\mu\text{m}$
- Throughput up to 300  $\text{m}^3/\text{h}$  in one apparatus
- Solid content up to 10% possible
- For suspensions difficultly filterable
- Filtration with integrated cake washing and / or drying
- Fully automatic with efficient, patented cake discharge



## Precoat filtration (CakeFil)

- Separation down to sub-micron range
- Throughput up to 300  $\text{m}^3/\text{h}$  in one apparatus
- Suitable for slimy solids with a tendency of blocking
- Dry cake or slurry discharge
- Closed system (no vapors)
- Fully automatic with efficient, patented cake discharge



## Filter housings, filter elements, filter bags

- Large stock of housings, elements and bags
- Overall application guidance
- Cost-efficient filtration
- FDA-certified
- High chemical resistance possible





## Filtration and separation technology

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