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

30 years 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 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

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, polyamide, 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)

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**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 µm
- Throughput up to 300 m³/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 m³/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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