

CoreLine

Filtration systems & disposable elements for industrial liquid filtration

HOUSINGS – CARTRIDGES – BAGS – SPECIAL SOLUTIONS





CoreLine

Filter housings, filter bags and filter cartridges as well as special disposable filtration solutions for industrial customers.

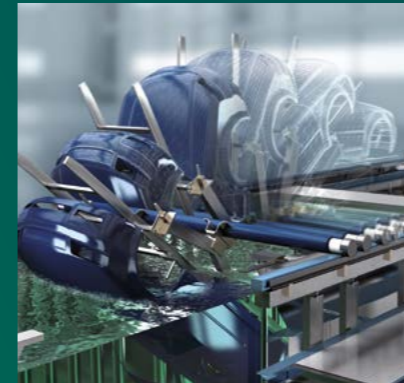
We provide a wide product range and find a fast and flexible solution in consulting with you personally.

CoreLine

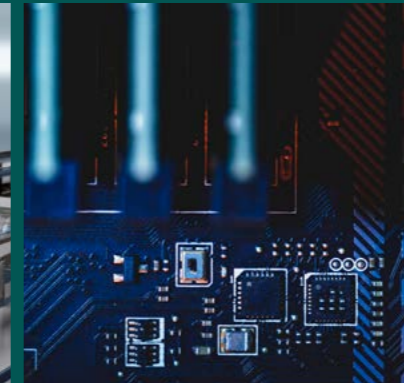


Our wide range of materials, finesses and confectioning versions enables the use of CoreLine filter systems in a multitude of applications across all lines of business.

With their long-time experience our filtration experts support you in the choice of the most efficient system for the respective application. With their maximum flexibility they offer a clear advantage over our competitors while offering by maximum flexibility a clear competitive advantage.



Automotive industry



Electronics industry



Oil and gas industry



Chemical industry



Steel and aluminum industry



Paints and varnishes



Food and beverage industry



Electroplating and surface technology



Water treatment

CoreLine

Filter housings

Our CoreLine housing assortment in stainless steel or plastic is versatile.

It ranges from housings for low flow rates with low content of impurities up to multi cartridge filter housings whose compact design can be used for high volume flows with a high amount of solids.

Special designs, other materials or individual housing connections are possible upon request.

For detailed information send a request for our individual product data sheets.

Specific applications

- > Filtration of water and water treatment
- > Pre-filtration of UO modules
- > Automotive industry
- > Food and beverage industry
- > Chemical industry
- > Electronics industry
- > Electroplating industry
- > Paints and varnishes
- > Fine filter for cooling circuits
- > Rinsing bath in parts cleaning systems



HOUSING TYPES



Bag filter housings (sideline & topline)

Cost-effective filtration for high volume flows and low dirt load

- > Material: AISI 304, AISI 316L
- > Bag sizes: 1, 2, 3, 4
- > Bag support: Plastic ring or steel/stainless steel ring



Multi cartridge filter housings

Cost-effective filtration for high volume flows and high solid loads

- > Material: AISI 304, AISI 316L
- > Number of cartridges: 3 to 160 for length of 20", 30", 40"
- > Cartridge support: DOE, Code 3, Code 7, Code 8



Multi bag filter housings

Cost-effective filtration for high volume flows and low dirt loads

- > Material: AISI 304, AISI 316L
- > Number of bags of size 2: 2 - 16
- > Bag support: plastic ring or steel/stainless steel ring



Plastic filter housings

Convertible filtration systems for bags and cartridges

- > Material: PP, PVDF on request
- > Bag sizes: 2 & 5 resp. big cartridges
- > Support: filter bag with plastic ring or steel/stainless steel ring resp. SOE filter cartridge



Cartridge filter housings

Cost-effective filtration for small volume flows and high dirt loads

- > Material: AISI 304, AISI 316L
- > Housing lengths: 10", 20", 30", 40"
- > Cartridge support: DOE, Code 3, Code 8



High flow filter housings

Compact filtration systems for very high volume flows

- > Material: AISI 304, AISI 316L
- > Cartridge lengths: 20", 30", 40", 60", 80"
- > Number of cartridges: 1, 2, 3, 4, 7

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Filter cartridges

Our CoreLine cartridge assortment ranges from depth and surface filter cartridges up to stainless steel cartridges with fabric or non-woven as well as activated carbon filter cartridges.

The possibility of combining different filter types, lengths, finenesses, adapter designs and seals enables a wide range of variants.

Standard designs are quickly available from stock.

Variation options

- > Available lengths: 10", 20", 30" and 40" resp. special length on request
- > Available adapters: DOE resp. 222/226, each with fin or flat end cap
- > Food contact grades available

Special designs are available on request.

Specific applications

- > Water treatment
- > Pre-filtration of UO modules
- > Food and beverage industry
- > Chemical industry
- > Electronics industry
- > Electroplating industry
- > Paints and varnishes
- > Fine filter for cooling circuits
- > Rinsing bath in parts cleaning plants



CARTRIDGE TYPES



Meltblown filter cartridges

Thermally bonded depth filters for particles that are difficult to filter and wide particle size distributions

- > Material: Three-layer, graded structure made of polypropylene
- > Filter fineness: 0.5 - 100 µm, nominal and absolute retention rates available
- > Suitable for contact with food, free from silicone and wetting impairment substances



Pleated filter cartridges

Surface filter in compact design with absolute retention rates

- > Material: double-layered polypropylene
- > Filter fineness: 0.2 - 100 µm, absolute
- > Suitable for contact with food, free from silicone and wetting impairment substances



String wound filter cartridges

Wound depth filters with high dirt holding capacity and long service life

- > Material: polypropylene or cotton
- > Filter fineness: 1 - 100 µm, nominal
- > Support body made of polypropylene or stainless steel



Stainless steel filter cartridges

For high viscosities and high temperatures

- > Material: Sintered stainless steel, wire mesh or nonwovens in various designs
- > Filter fineness: 3 - 1,000 µm, absolute
- > Available in pleated or cylindrical design as well as basket filters



Activated carbon filter cartridges

Absorption of chemical and organic components

- > Absorption of color, odor or taste impurities
- > Removal of free chlorine or ozone, disinfectants or organic components
- > Large activated carbon contact surface
- > Stable structure



High flow filter cartridges

For very high-volume flows with very low solid contents

- > Material: polypropylene
- > Filter fineness: 1 - 100 µm, absolute
- > High flow rates and long service life due to large filter surface area

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Filter bags

Our CoreLine bag range includes single-layer monofilament fabric bags, single and multi-layer needle felt bags and multi-layer composite constructions made from microfiber and Meltblown materials. Activated carbon filter bags are also part of the range.

The possibility of combining different filter materials, layer structures, lengths, finenesses and ring designs enables a wide range of variants. The range of applications is extremely versatile.

Standard versions are quickly available from stock.

Variation options

- > **Size 1:** Length 420 mm, \varnothing 180 mm, filter area 0.25 m²
- > **Size 2:** Length 820 mm, \varnothing 180 mm, filter area 0.50 m²
- > **Size 3:** Length 230 mm, \varnothing 100 mm, filter area 0.09 m²
- > **Size 4:** Length 380 mm, \varnothing 100 mm, filter area 0.15 m²
- > **Size 5:** Length 510 mm, \varnothing 150 mm, filter area 0.25 m²
- > Food contact grades available

Special designs are available on request.

Specific applications

- > Water filtration and treatment
- > Automotive industry
- > Food and beverage industry
- > Chemical industry
- > Electronics industry
- > Electroplating industry
- > Paints and varnishes
- > Fine filters for cooling circuits
- > Rinsing baths in parts cleaning plants

BAG TYPES



Needle felt filter bags

Single and multilayer needle felt bags with nominal retention rates

- > Material: polypropylene, polyester
- > Nominal filter fineness: 1 - 200 μ m
- > Retention rates up to 85%
- > Single and multi-layer versions with increased dirt holding capacity and/or extended service life available



Monofilament filter bags

Single-layer mesh bags with absolute retention rates

- > Material: polypropylene, polyester, nylon 6, nylon 66
- > Absolute filter fineness: 25 - 1,000 μ m
- > Fiber release free



Microfiber filter bags

Depth matrix due to multilayer combination of high-quality microfibers and needle felt

- > Material: Polypropylene
- > Oil-absorbing properties (absorption of a multitude of its own weight possible)
- > Semi-absolute filter fineness: 1 - 100 μ m



Activated carbon filter bags

Absorption of chemical and organic components

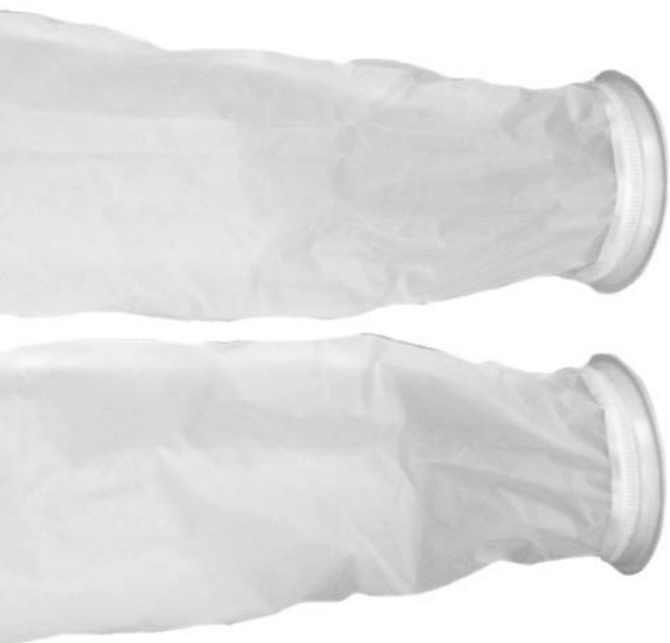
- > Combination of activated carbon and polypropylene needle felt
- > Large activated carbon contact surface resp. filling volume due to activated carbon granulate
- > Absorption of color, odor or taste impurities as well as removal of free chlorine or ozone, disinfectants or organic components



Absolute filter bags

Very high efficiency for critical applications with high requirements

- > Material: Polypropylene
- > Multi-layer composite construction made of high-quality microfibers and Meltblown material
- > Absolute filter fineness: 0.75 - 25 μ m



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SPECIAL FILTRATION SOLUTIONS for longer service life

LENZING DoubleFil

Bag filter solution for extended maintenance intervals and better filtration efficiency

The LENZING DoubleFil is a filter bag with up to 80% more filter surface area compared to standard size 2 bags. The DoubleFil is characterized by a longer service life and better filtration efficiency resulting from a lower flow per filter area. Overall, the dirt holding capacity is up to 4 times higher compared to a standard bag.

Existing standard filter bag systems can be easily converted into a DoubleFil system with two additional components (support basket and bag positioner).

The reduction of housing size and space requirements enables a reduction of investment costs for new installations.

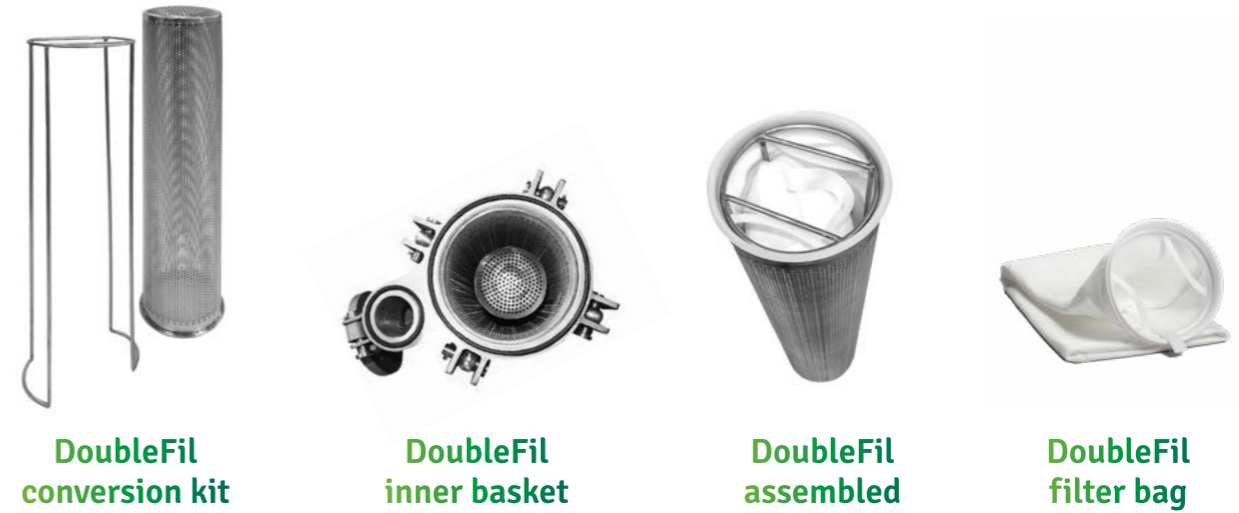
DoubleFil versions are available for single-layer needle felt filter bags and monofilament filter bags.

Advantages

- > 80% higher filter surface in comparison to standard bags
- > Higher dirt holding capacities
- > Longer service life if existing bag filter systems are converted
- > Lower investment costs for new installations
- > Very easy change of existing systems
- > Up to 60% lesser residual medium at bag change

Specific applications

- > Water filtration and treatment
- > Automotive industry
- > Food and beverage industry
- > Chemical industry
- > Electronics industry
- > Electroplating industry
- > Fine filters for cooling circuits



TECHNICAL DATA

General

Filter surface	0.90 m ²
Filter materials	Polypropylene needle felt Polyester needle felt Polypropylene monofilament Polyester monofilament Nylon monofilament

Performance parameters

Material	Fineness	Flow rate
Needle felt	1 – 200 µm	36 – 45 m ³ /h
Monofilament	25 – 1,000 µm	36 – 68 m ³ /h

Operating temperature

Polypropylene	max. 70°C
Polyester/nylon with PE ring	max. 100°C
Polyester/nylon with steel ring	max. 135°C

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SPECIAL FILTRATION SOLUTIONS for highest dirt loading capacities

LENZING HisoFil

Cake-forming solution for higher dirt content in liquids

The LENZING HisoFil is a special folded (pleated) and dimensionally stable filter element that has been optimized for applications with higher solid contents.

The working principle is to reduce the flow rate per filter area, thus allowing the filtration process to form a cake. At the same time, it is ensured that there is enough space to accommodate the filter cake. This results in maximum dirt absorption, long change intervals and low filtration costs. The HisoFil is also particularly suitable for applications where changing the filter element is associated with a great effort, such as hazardous media, remote installations requiring long journeys, or offshore operation.

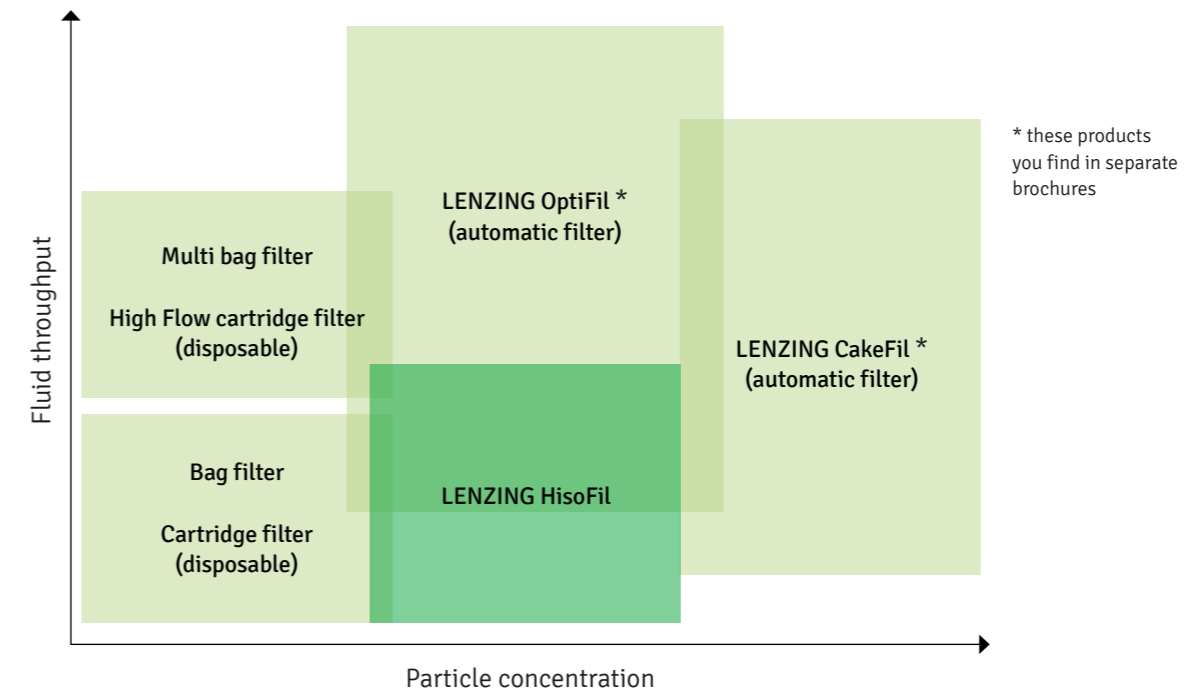
Suitable filter housings are available in stainless steel (2 elements) and polypropylene (1 element). In addition, all standard size 2 bag filter housings with a DN50 flange connection can be converted to a HisoFil system using a conversion kit.

Advantages

- > For applications with higher dirt contents
- > High dirt holding capacity by cake building filtration process due to lower flow velocity
- > Low filtration costs
- > Very long service life

Fluids

- > Chemicals
- > Water
- > Oils



TECHNICAL DATA

General

Operating temperature	80 °C
Max. differential pressure	3 bar
Filter surface / Element	2.3 / 2.8 / 3.5 / 4.5 m ²

Material specifications

Filter material	Cellulose
Plastic parts	Polypropylene
Sealing material	NBR

Finenesses

5 µm	at 3.5 m ² filter surface
10 µm	at 4.5 m ² filter surface
25 µm	at 2.8 m ² filter surface
50 µm	at 2.3 m ² filter surface

Throughput rates in m³/h

Dirt content	high	medium	low
Throughput	1.5	3.0	5.0



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For an individual offer,
please contact:
filter-tech@lenzing.com
+43 (0)7672 701-3479

Lenzing | **Filtration**

Lenzing AG – Division Lenzing Filtration
4860 Lenzing, Austria
www.lenzing-filtration.com