

HAYER & BOECKER



Information



**Woven Wire Cloth
and
Filterelements
for Plastic Melt Filtration**

HAYER Extruder Screens

- **High quality and filtration capacity**
- **Precise fitting filter elements**
- **Optimum cost-performance ratio**
- **Constant quality control during production**

HAYER & BOECKER design and fabricate woven wire cloth extruder screens for melt filtration.

We produce extruder screens

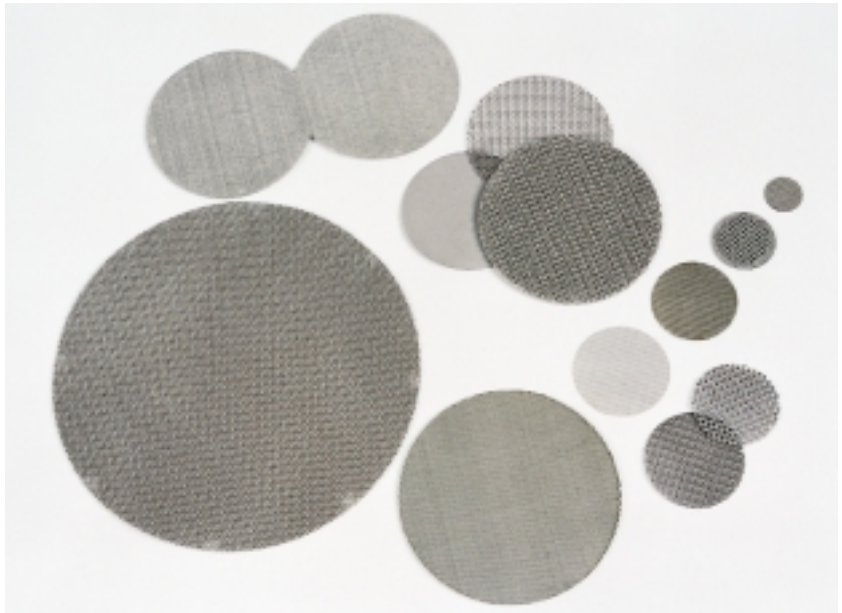
- round, oval, rectangular or other special design
- with one or several layers
- with or without borders
- with compressed edges

Extruder Screens with compressed edges (registered utility model No. G 94 05025.2) are screen packs made of several layers of woven wire cloth. These layers are bonded together at the edges where they are virtually free from pores. It prevents with great efficiency any horizontal melt leakage from the filter screen.

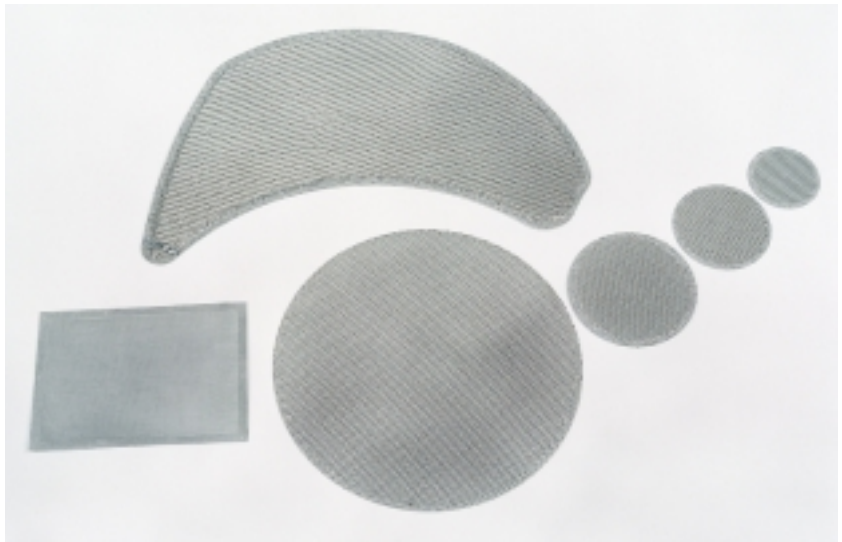


Compressed edge

The fabrication of our own woven metal cloth and twilled weaves enables us to design the optimum sieve configuration for any given filtration requirement. A close cooperation with the engineers and users of such systems is of great importance to us.



Round screens with one and several layers; without borders



POROSTAR® extruder screens with compressed edges (G 94 05025.2)



Extruder screens for melt filters

HAYER Extruder Screens

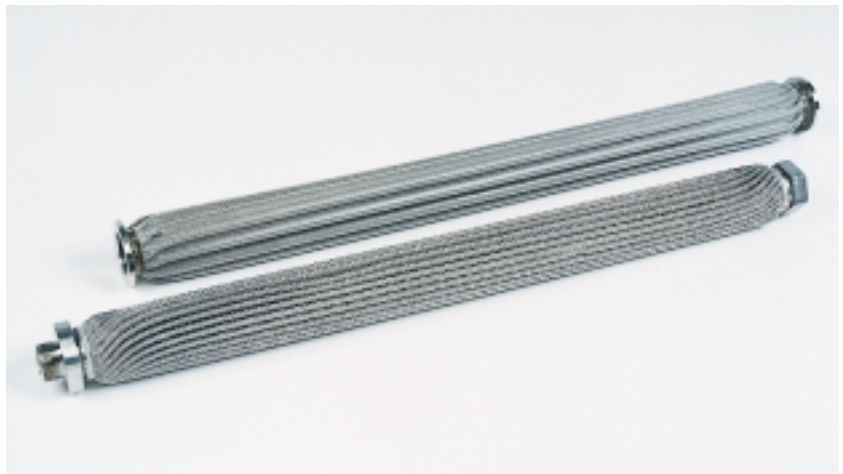
Besides deadflat extruder screens and screening belts for endless filtration we specialise in fabricating filter candles, filter elements, screen tubes, cones and other three dimensional shapes.

For each filtration problem we can offer a corresponding solution: Micron retentions from 6 to 500 micrometers (μm) are standard. There are special requirements with micron retentions down to 2 μm . Our specialists develop optimum filter configurations.

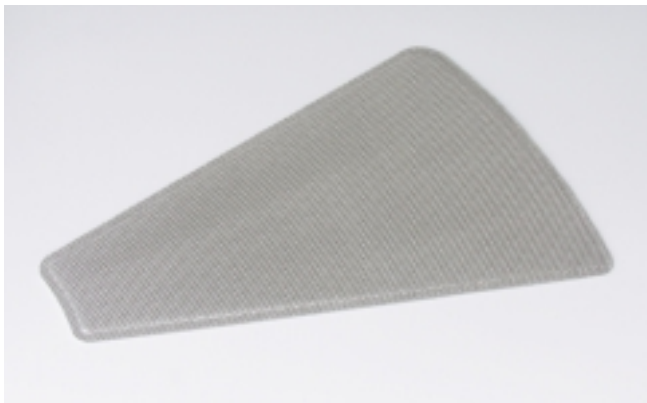
Extruder screens made from stainless steel woven wire cloth have demonstrated superior performance in melt filtration, as this material excels in durability and chemical resistance. Extruder screens made from other materials can also be delivered.



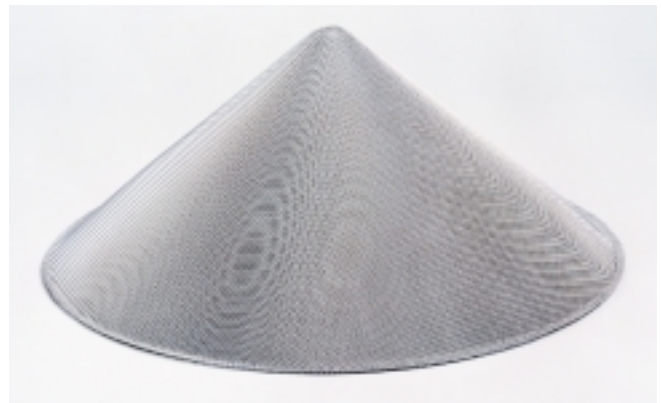
Cylindrical filter elements for screen changers



Pleated filter candle for the fabrication of foils



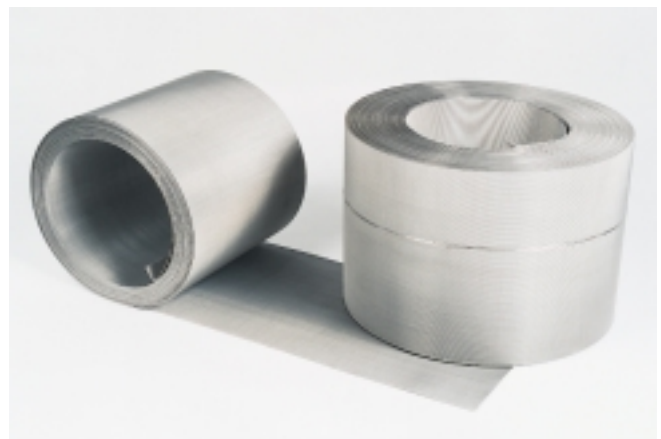
Conical extruder screen with compressed edge



Conical screen with compressed edge



Pleated extruder screen with compressed edge



Screening belts for endless filtration

HAYER Spinneret Filters for Sandpacks



Spinneret filters for plastic melts

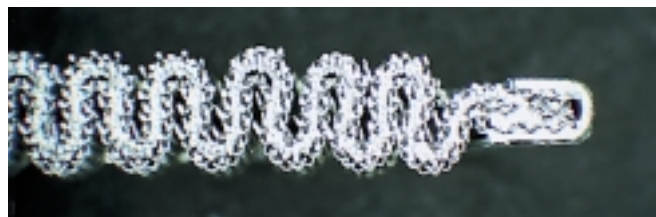
HAYER spinneret filters are used for the fabrication of fibres made from polyester or polyamid.

Our filters are produced as discs, longfilters and cylinders. The ring fixture is generally made from aluminium, although stainless steel is also possible.

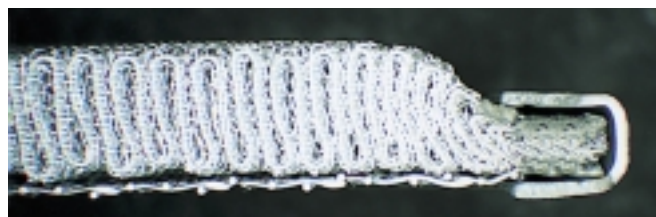
HAYER spinneret filters consist of several layers of woven wire cloth. The specification is predetermined in accordance with the clients demands. Woven wire cloth with square mesh weaves up to aperture widths of 25 micrometers (= 500 Mesh) are applicated as well as Minimesh Filter Weaves in the weave types BMT-ZZ and RPD.

In order to enlarge the filtration surface area, woven wire cloth may be pleated and fabricated to spinneret-filters, too. The sequence of the different layers and the pleat geometry is individually coordinated with the filtration process.

The fabrication process guarantees a clinically clean woven wire cloth, ideal for the filtration of plastic melts. HAYER spinneret filters have been delivered for more than 40 years to the producers of polyamid-fibres in Germany, Europe and all over the world.



Cross-section of a pleated screen pack with border



Cross-section of a pleated screen pack with compressed edge and border

POROSTAR® XL Spinneret Filters for Sandless Nozzle Packs



POROSTAR® XL filters with extremely large pore volume

POROSTAR® filters are often used for the fabrication of Polyester-Filaments and Micro-Filaments.

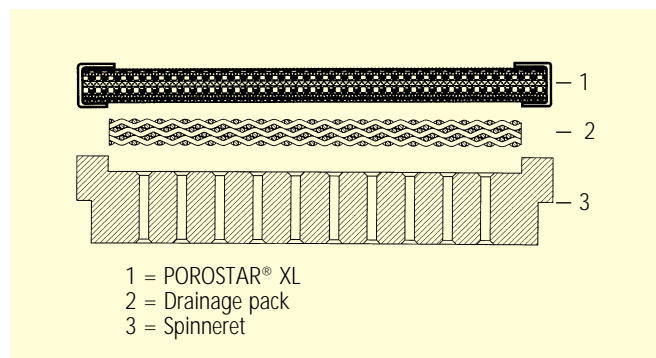
POROSTAR® XL filters have an extremely large pore volume consisting of a large number of woven wire cloth layers with square aperture widths that are arranged over the specific filtration layer. The individual woven wire cloth layers are bonded together as one stable filtration layer via sintering.

The edge is formed by a stainless sheet steel ring that, in combination with aluminium flat packings, creates a complete sealing.

Depending on the individual usage, the filter layer consists of 15 up to 25 woven wire cloth layers. The pore sizes of the filtration layers range between 20 and 5 micrometers.

The melt passes through the porous filtration layer, arrives at the spinneret nozzle with a high degree of homogeneity and is ideally suited for the spinning process.

HAYER POROSTAR® XL spinneret nozzle filters guarantee quality improvement and a problem-free packing assembly.

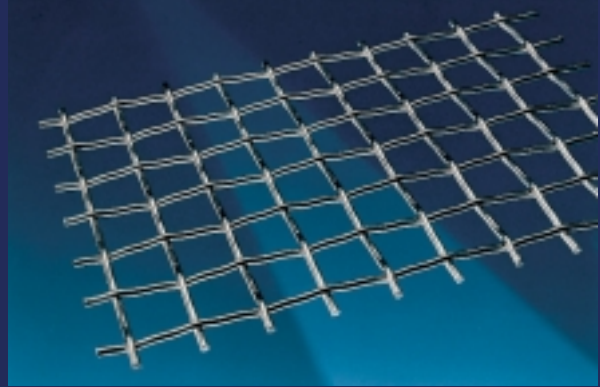


Cross-section of a spinneret nozzle with a complete POROSTAR® XL filter

Woven Wire Cloth, Industrial Screens, Filter Cloth and Filterelements



Filterelements made from woven wire cloth



Square mesh woven wire cloth



Cutting of woven wire cloth



The Wire Weaving Division in Oelde

The HAVER & BOECKER production programme comprises of thousands of types of woven wire cloth, of which more than 3,600 are kept in stock.

Standard rolls, roll sections, cut-to-size pieces, strips, discs, fabricated parts, filterelements and screen sections are used for filtration, screening and particle size analysis.

**Whether in large quantities or by the piece
– we supply you with what you require.**

HAVER & BOECKER

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