

DORSTENER WIRE TECH

A close-up photograph of several circular filtration components. The components are made of a fine, woven mesh material, likely polymer, and are arranged in a slightly overlapping manner. The lighting is soft, highlighting the texture of the mesh. The background is a solid, light blue color.

Polymer Filtration



Extruder Screens, Spin Packs & Polymer Melt Filters

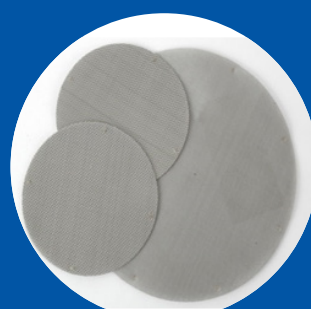
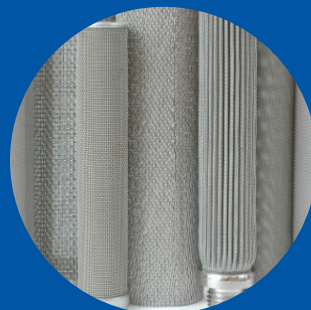
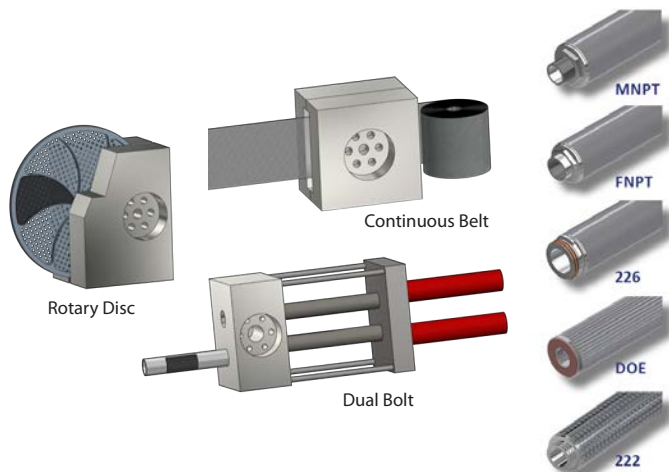
High quality filtration requires high quality media. Dorstener Wire Tech is a fully integrated company that not only produces polymer filters and extruder screens, we produce the media we use in our filters. Our fully integrated manufacturing facilities allow us to offer high performance filters direct from the manufacturer at an economical cost.

Proper filter design is critical. Questions that need to be asked are:

- What level of filtration do you require?
- Are your screens or filters back flushed during operation?
- What is the type and size of your standard contaminates?
- What are your target throughput rates?
- What is the type or style of your screen changer?
- What are the details on previous screen failures?

The Dorstener Group offers domestic and offshore production. We produce extruder screens and other polymer filters in the USA, Germany, Czech Republic, and China. Dorstener maintains a full range of tooling to produce screens and filters for all makes and models of screen changers.

- Single Screen Filters
- Spot Weld Packs
- Rim Bound Packs
- Cylinders
- Cones
- Candle Elements
- Continuous Melt Screens
- Screens for Rotary Changers
- Continuous Auto Screen Belts



Virgin Resin Production and Compounding

Polymer manufacturing requires numerous types of filters to produce the highest quality resin.

- Custom filter elements to your specifications and requirements.
- Screen pack optimization and wide selection of alloys for demanding environments: 304ss, 316ss, Alloy 20, Inconel, Hastalloy, Nickel 200, Monel and many more.
- Ultrasonically cleaned packs.
- Cleanable elements or packs.



Dorstener Wire Tech produces filtration components for standard and custom resin production, as well as compounding of resins.



Acrylonitrile
butadiene styrene



Polypropylene



Bisphenol A
and others



Polystyrene



Polyethylene
terephthalate



Polyethylene
(high density)

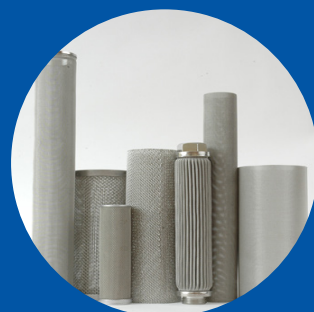


Polyvinyl
chloride



Polyethylene
(low density)

The more you know: Dorstener produces thousands of mesh specifications. For any given micron rating there are multiple weave patterns. Weave patterns impact flow, filtration performance, screen life and final screen pack design. We can help optimize your screen pack.



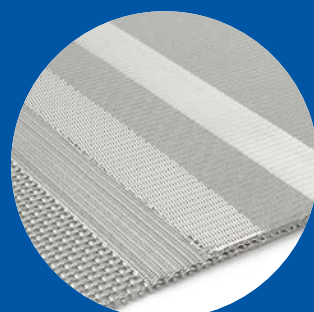
**Pleated Extended Area
Elements**



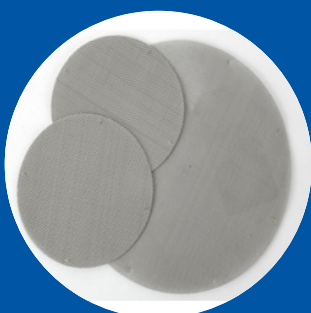
**Pleated Extended Area
Packs**



**Frame Packs and Spot-weld
Packs**



Numerous Mesh Types



Single Screens and Spot-weld Packs



Framed Screens



Food Grade Screens

Plastic Recycling

There are many styles of filtration products used in the plastic recycling industry. Dorstener Wire Tech can supply you with all of them. We have the expertise and manufacturing capabilities to design superior packs to aid in the following:

- Product throughput vs. filtration requirements.
- Screen pack performance and cost.
- Vendor managed stocking programs that ensure continuous supply.
- Carbon steel and various Nickel based alloys available.
- Single disc screens for mesh combination.
- Spot weld and rim bound packs for easy handling.

Our understanding of all the factors that impact your processing allows us to provide a screen pack that performs at optimal levels at an economical cost.

Food Grade Recycling Screens

- Sintered screen packs eliminate the issue of loose wire contamination in pellets.
- Ultrasonically cleaned to remove oils.
- Food grade alloy: 316Lss, 304ss, 304Lss and others.
- Framed screens to help reduce loose wire contamination.

Continuous Melt Filters:

- We can help with your continuous melt filters.
- Disc or drums.
- Laser beam drilling and micro perforating.
- Hardened steel and hard chrome plating available.

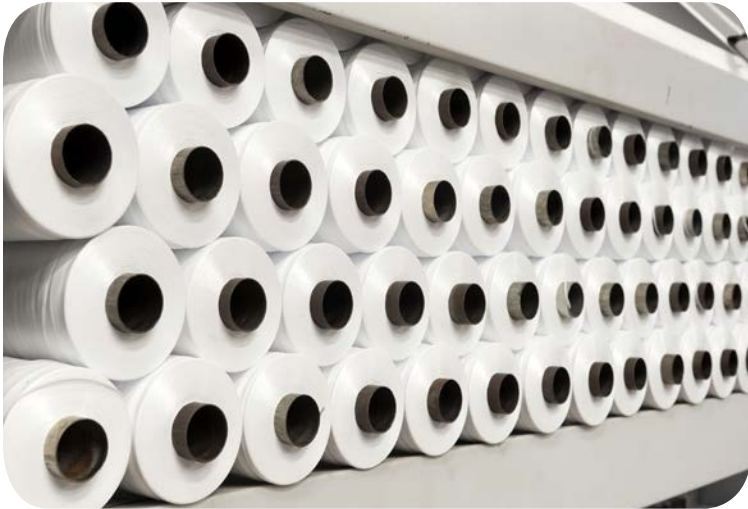
Screen Pack design is important

Micron Rating	Heavy Duty Series	Heavy Duty Filter Permeability	Standard Duty Series	Standard Duty Filter Permeability	High Output Series	High Output Filter Permeability
60	20/ 50x250 /20/10	632	20/60/ 250MG /100/40/20	690	20/42T/ 300T /145T/60T/20	775
75	20/ 40x200 /20/10	675	20/60/ 200MG /100/40/20	705	20/42T/ 230T /120T/42T/20	890
100	20/ 30x150 /20/10	714	20/60/ 150MG /100/40/20	754	20/42T/ 165T /120T/42T/20	1030
125	20/ 24x110 /20/10	660	20/60/ 120MG /100/40/20	780	20/42T/ 145T /80T/42T/20	1100
250	20/ 14x88 /20/10	835	20/30/ 60MG /30/20	1020	20/42T/ 78T /42T/20	1410
300	20/ 12x64 /20/10	850	20/30/ 50MG /30/20	1050	20/42T/ 64T /42T/20	1450

Permeability is based upon air permeability test
Results are stated in SCFM/FT² @ 1" Water Column
(Data is for reference only)

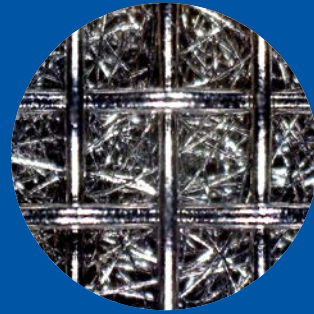
Synthetic Fibers and Filaments

Synthetic fiber and monofilament production requires many styles of filters. Dorstener Wire Tech offers a full range of spin packs and accessories.



Spin Pack Screens require quality from the start.

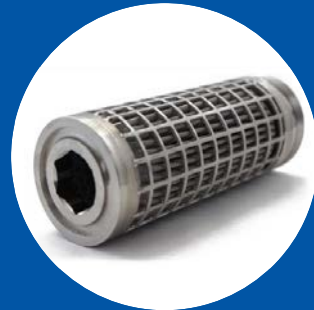
- We fully control our woven mesh and fiber felt media.
- Full on site testing capabilities: bubble point, alloy, flow, and more.
- Visual and automated inspection systems for media and finished packs.
- We produce spin packs under ISO 9001:2008 certified controls and procedures.
- Proper control of tooling.
- Ultrasonic cleaning of spin packs.
- Woven Wire Cloth media down to 5 micron.
- Sintered Fiber Felt media down to 5 micron.



Fiber Felt Media



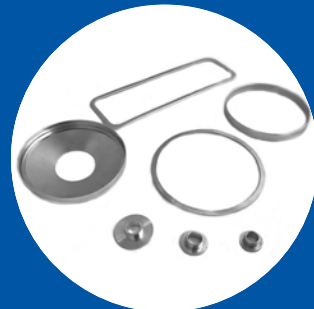
Frame Packs and Spot-weld Packs



Pleated & Extended Area Packs



Pleated Spin Packs



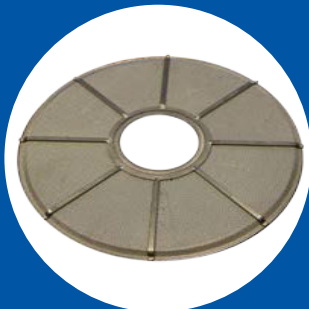
Gaskets



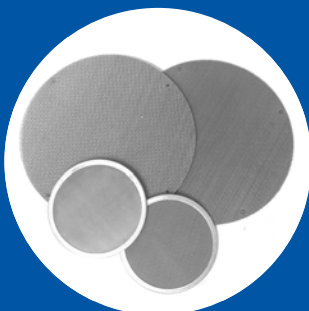
Blown Film



Pleated Extended Area Elements



Disc Filters



Screen Packs

Specialty and Blown Film Filters

Dorstener Wire Tech understands that the manufacturing processes for optical film and display films include strict quality control standards. Dorstener Wire Tech can produce filters that will help eliminate any anomalies such as carbon specs and the presence of gel from your melt stream.

Pleated Candle Elements and Leaf Disc Filters for Specialty Film Production

Dorstener Wire Tech provides pleated elements and leaf disc filters made with both woven mesh and sintered fiber felt. Dorstener provides pricing and lead-time for filter elements that is unparalleled in the market place.

Extruder Screens for Blown Film Production

Extruder Screens in a multitude of shapes and sizes are available for film production equipment.

- Single screen disc for mesh combination flexibility.
- Weld packs for easy handling and inventory control.
- Mesh cylinders with carbon or stainless steel media.
- Aluminum bound packs.





Gaskets



Vacuum Screens



Dryer Filters



Copper Gauze

Auxiliary Production Components

Dorstener Wire Tech also provides a vast array of auxiliary filtration components used in the polymer processing industry. These products might not be consumed at the same volume as process filters but can be just as costly if not managed correctly.

Gaskets

Gaskets of many alloys (most commonly aluminum) are common in synthetic fiber production and provide the seal necessary for optimal spin pack performance.

Vacuum Screens

Like any air system it's critical that the filters in your material transport lines are kept clean and replaced.

Dryer Filters

Keeping fine dust particles out of the heat exchangers on drying equipment will extend the life of your equipment. Switching to stainless filter media also allows for filters to be cleaned.

Copper Gauze

Copper gauze is an economical tool used to clean polymer processing equipment such as extruders, dies, screws, and similar machinery.

Dorstener Wire Tech is your single source manufacturer for high-quality polymer filtration products. We are committed to providing all of our clients with premium products that exceed expectations at an economic price coupled with industry-leading customer service.



Houston, TX



DORSTENER WIRE TECH

19994 Hickory Twig Way

Spring, TX 77388

Tel: 281-651-6226

Fax: 281-651-6228

Toll Free: 888-931-9473

sales@dwt-inc.com

www.dwt-inc.com

SALES AND

MANUFACTURING

Houston, TX

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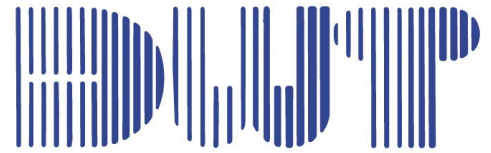
DISTRIBUTION

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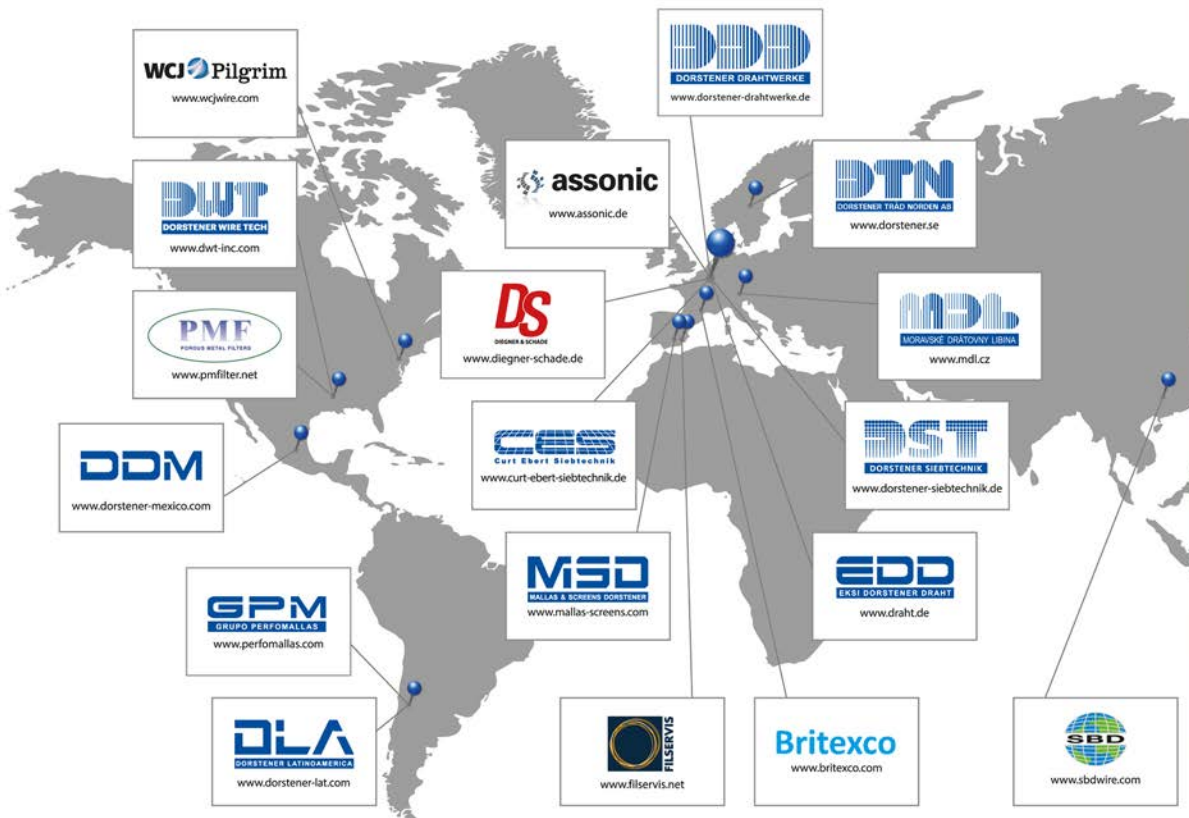
Chicago, IL

Los Angeles, CA

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DORSTENER WIRE TECH



DORSTENER DRAHTWERKE
Group of Companies

LOCATIONS

