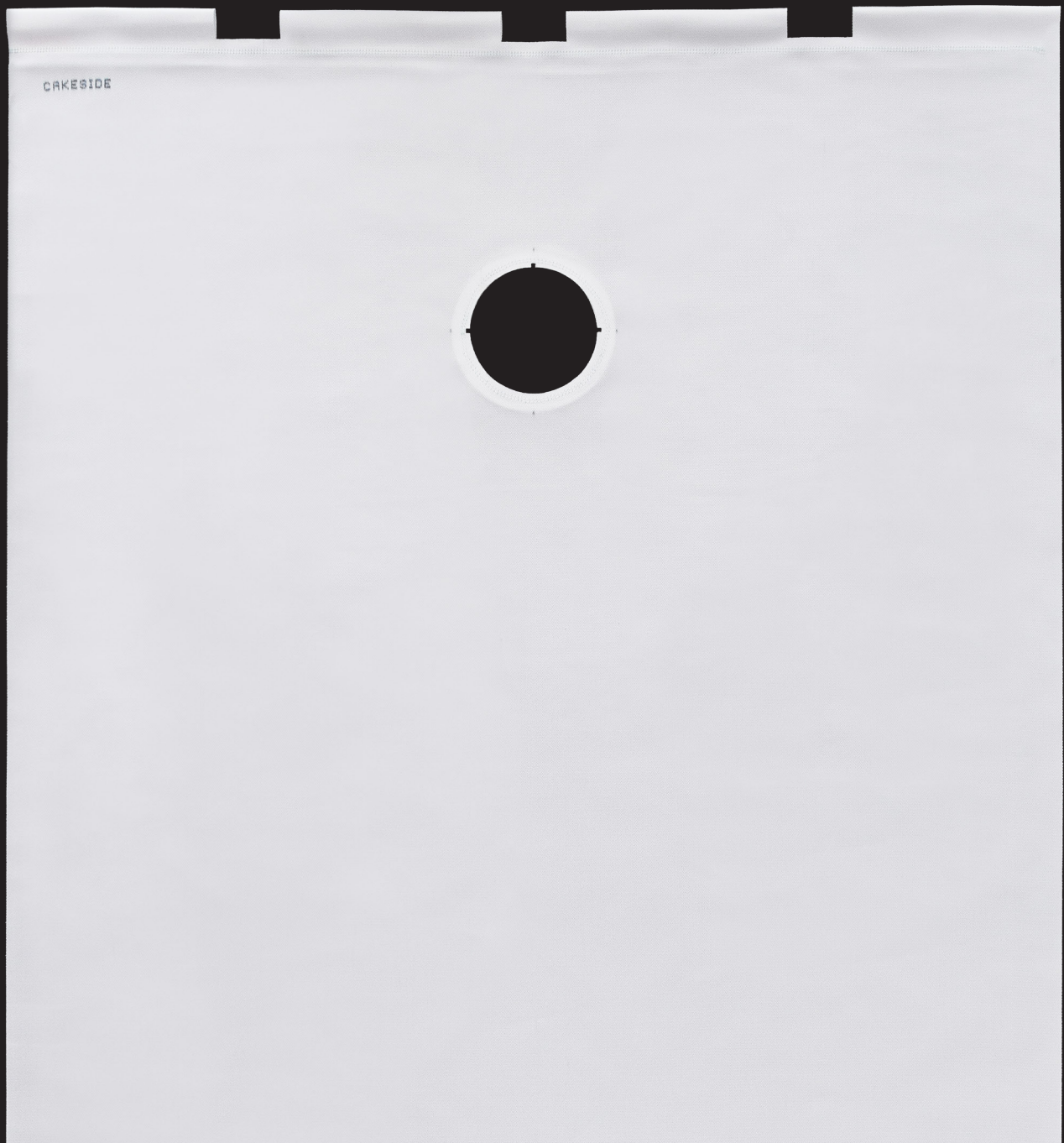


Textile Filter Technology



Welcome!

The Markert Group was established in 1929 and has been thriving over the years in the filtration industry specializing in manufacturing and selling filter cloths for industrial process filtration and hoses for industrial application.

Our mission is to make our customers' filtration process as efficient as possible. Consequently, Markert has successfully created a close network with leading OEMs and end customers.

In December of 2022, Markert made their way into the United States market with the acquisition of Cross Filtration. Cross Filtration became an industry leader in the US by maintaining a legacy of leadership, innovation, and high-quality craftsmanship. With the new name, Markert USA, Cross Filtration's legacy in Moravia, New York will be carried on as part of Markert Group.

Today, as a market leader in the United States and Europe, Markert continues to base their strong brand reputation on three leading principles:

- 1. Integrity**
- 2. Optimization**
- 3. Innovation**

The experts at Markert stand by these principles to provide application specific advice and products that will optimize the effectiveness, lifespan, and overall efficiency of a liquid filtration process in any industry.



Mining

Mining for aluminum, coal, kaolin, zinc, copper, iron, nickel and gold, and conveying preliminary products is an extremely demanding field of application. Markert filter media is used worldwide here for optimizing production.

Basic process and machine-specific conditions determine the design of the textile filters.

Whether they are filter press cloths, disc, belt, leaf or rotary filters: every filter is individual and, in particular, must withstand high mechanical loads for as long as possible. Our filter designs are ideal for bridging the gap between optimum dewatering and excellent cake-release performance.

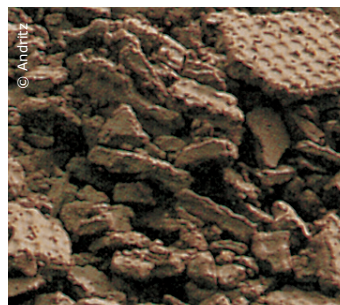


Waste water

Markert's key focus in this area is on meeting the restrictive legal regulations for the protection of the environment and natural resources.

Markert filters achieve optimum results in communities and industry when used to drain sewage sludge and gypsum in flue gas desulphurisation and filter industrial waste water.

Our years of experience and expertise generate proven filtration results in these applications. Given our comprehensive understanding of the problems and expectations municipal and industrial wastewater customers face, we can provide unique solutions for a unique industry.



Chemicals & Pharmaceuticals

The chemical and pharmaceutical industry make maximum demands on filter media. In order to properly determine the filter design, an examination of the utilized process and machine conditions must be taken into account.

Markert filters meet the requirements for the best possible service life, selectivity, a precise fit and excellent cake-release performance.

Most common areas of application include the manufacture of silicates and pigments as well as the production of medicines and cosmetics. Markert filters are used here, among other things, as cloths for chamber and membrane filter presses, centrifuge inserts and belt or drum filters.

Whether on site or on the phone, Markert's sales engineers have the right, process-specific, know-how for selecting the optimum filter. High fabrication quality combined with a wide range of fabric designs with different chemical, thermal and mechanical properties speak for themselves.



Food

The food industry, and its many applications, provide a wide spectrum for Markert's filter media.

Examples include: sensitive campaign operation in the manufacture of sugar, as well as beer, and palm oil filtration. Our wide range of products are used in practically all areas of food production.

Only materials, meeting the requirements for raw material composition and process control, are used in all of these applications.





Fabrics

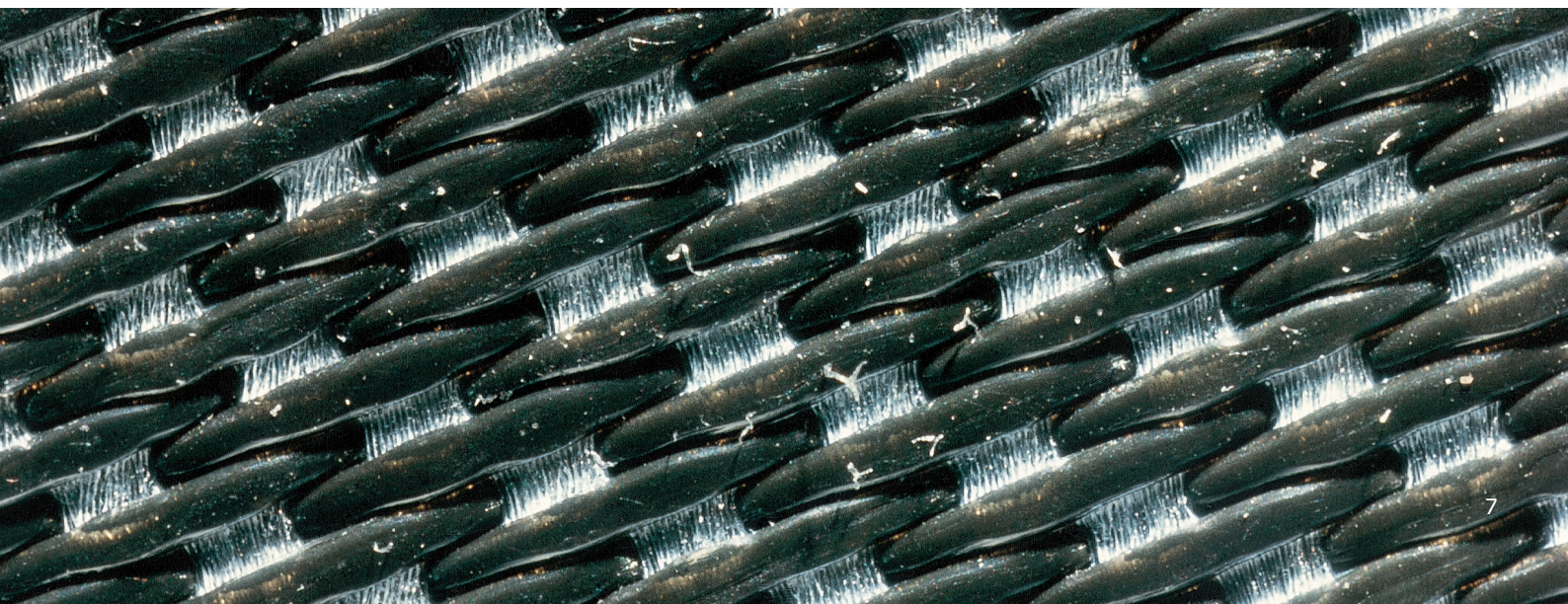
The process for manufacturing a Markert filter is a long one and requires a great deal of know-how.

Generally, synthetic materials form the basis. For example, these include polypropylene, polyamide, polyester, polyacrylonitrile, polyphenylene sulphide (PPS), polyvinylidene fluoride (PVDF) and polytetrafluoroethylene (PTFE). Monofilament, multi-filament and monomultifilament yarns as well as staple fibers are manufactured from these materials.

These yarns are then made into fabrics using state-of-the-art weaving processes to achieve the required filtration properties. In the next step, the fabrics are finished to meet the many sensitive requirements for separating solids from liquids.

Our customers' high expectations and our own endeavors to produce optimum filters form the basis for the continuous development of our products.

In this way, we can guarantee that Markert's filter media is always state-of-the-art.



Manufacturing

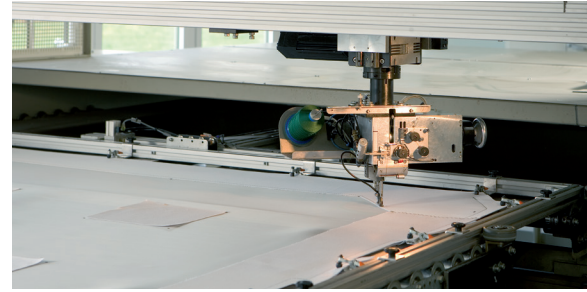
Market filters always provide a customized solution, whether as a filter press cloth, rotary filter or disc filter cloth, filter belt, centrifuge insert or any other kind of filter.

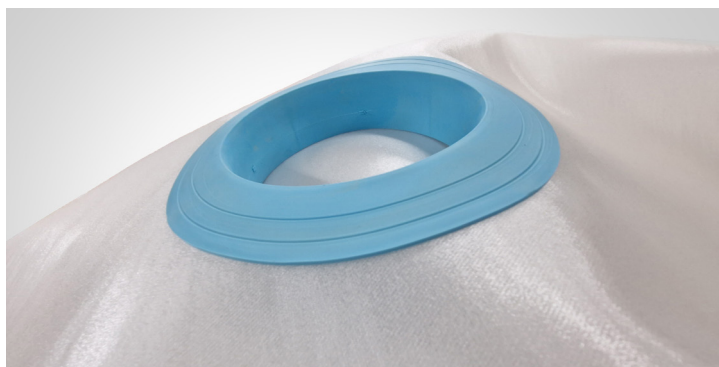
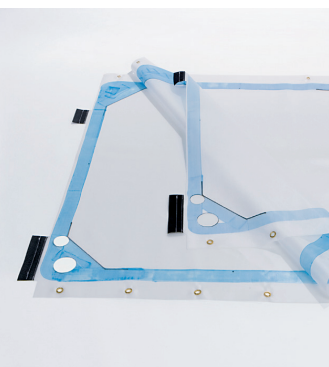
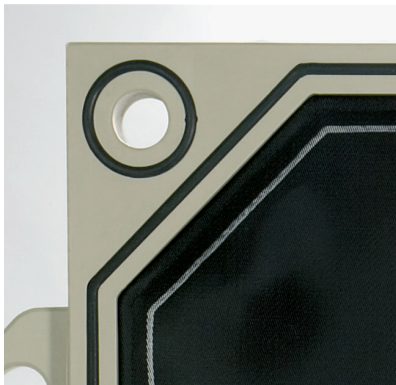
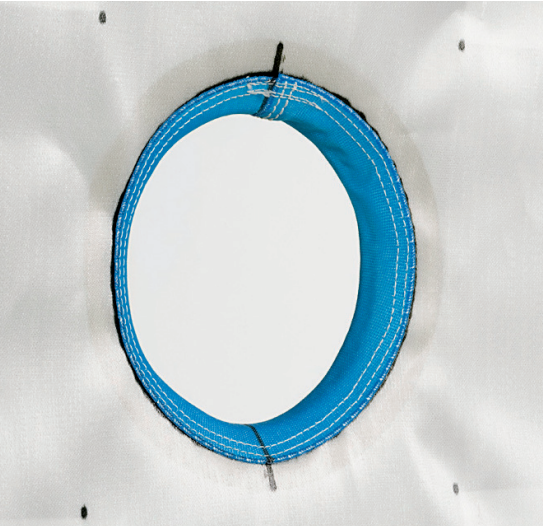
These products are always custom-made to meet the different processing conditions and account for the variety of filter equipment for separating liquids from solids.

Our filter factory is state-of-the-art; it is one of the most modern plants in this field. Our automated production uses laser technology for precision, while all manual production processes are performed by qualified experts in the field.

Regardless of their size and design, all Markert filters are manufactured to meet our strict specifications to assure consistent quality of product performance. The perfect fit and long service life of our filters guarantee low process costs for our customers.

Maximum productivity enables us to react quickly and deliver all the versions of our products in the shortest time.





Filter Cloths

Filter presses play an important roll in almost all areas in which liquids are separated from solids. All Markert filter cloths are specially fabricated to make them suitable for the specific features of the filter press and the technical conditions of the filtration process.

Our filter cloths are manufactured as:

- Single filter cloths.
 - Double cloths barrel neck design.
 - Overhang filter cloths.
- * for chamber, frame, membrane filter presses and leakproof filter presses.*

Markert filters ensure:

- Optimum separation of solids.
- Easy cake release and cleaning.
- Excellent chemical, thermal and mechanical resistance.
- Easy installation due to customized design.
- High dimensional stability and no wrinkling.

Depending on the application and machine, these are the distinguishing features you'll see in our products:

- Fabric type, i.e. material and weave.
- Hose connections made of EPDM or special fabric.
- Double or single layer of material.
- Sealing on edges.
- Reinforcement on edges and stay bosses.
- Hook and loop fasteners.
- Eyelets or heat cut holes.

If required, the filter cloths are combined with a backing cloth to improve drainage and protect them from damage.

Vacuum Drum Filters

Drum filters are used for continuous, mechanical separation of large quantities of solid and liquid mixtures by filtering them in a vacuum. Common areas of application include mining, chemical and food production.

Precise fabrication, a long service life, easy installation as well as optimum separation are required to ensure efficient filtration. Markert filter media is manufactured to order as rotary filter cloths or segments:

- In stitched or welded form, specially cut to the length and width of the drum.
- Fitted, *for example*, with rubber profiles or specially sealed or coated for lateral guidance.
- Provided with fasteners made of stainless steel or other materials.



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Belt Filters

The Markert product range includes textile filters for vacuum filter, tower presses and belt filter presses. As a manufacturer of textile machine parts, we also provide solutions in maximum lengths and widths for these areas of use. The range includes double layer weaves with different filtration efficiencies.

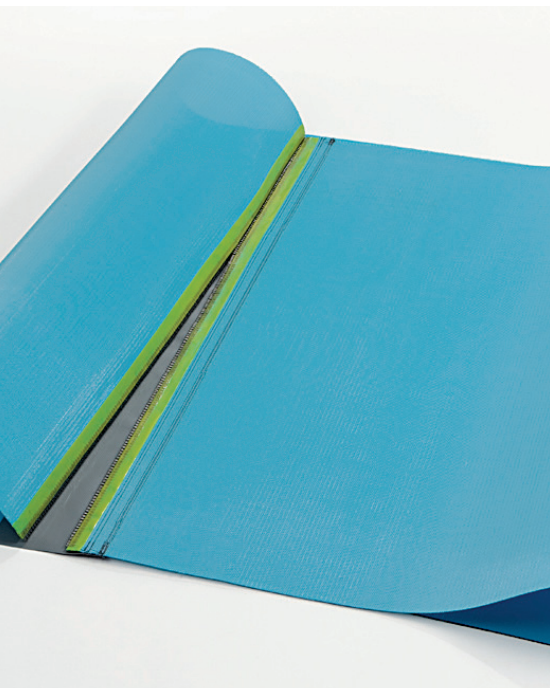
Our filter belts have special features to ensure that the machines always operate smoothly. **Features listed below.*



- Uniform fabric structure across the entire length and width of the belt.
- Good abrasion resistance.
- Perfect alignment.
- Good transversal stability.
- Plain and stable edges for perfect tracking behavior.
- Easy installation.

In addition, filter belts for belt presses must:

- Transmit high tension forces.
- Have high bending strength.
- Be resistant against high surface and linear pressure.



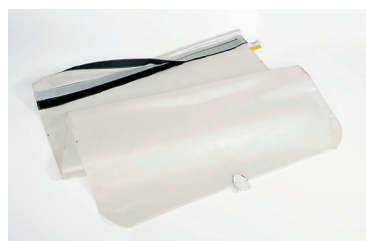
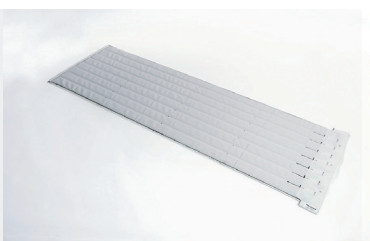
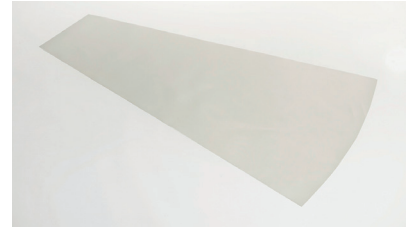
Other Filters

Markert filters are also available for a wide range of other important filter equipment. Our sales specialists' know-how, enables us to create the specifically required filter at any time for the machines listed below:

- Nutsche filters
- Centrifuges
- Filter bags
- Moore filters
- Disc filters
- Table filters
- Pressure cylinder filters
- Anode filters
- Micro-screen/drum-screen

Irrespective of the filter apparatus, filters also guarantee:

- Convincing filtration performance with excellent cake-release properties.
- Perfect fabrication, easy installation and a precise fit.
- A large selection of fabric qualities with optimum chemical, thermal and mechanical properties.
- A long service life in these fields.



Textile Filter Technology

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