

BKG® Filtration Accessories

Make your process even more efficient!

Nordson provides you with multiple filtration solutions in order for you to select the configuration that best suits your production process needs.

Breaker Plates

Breaker plates support the filtration media itself. Rheological testing of the polymer allows for the distribution to be optimized for the entire screen area. To further enhance the optimization of the breaker plate CFD analysis is used to design the plates.



Benefits

- Reduced cost due to reuse after cleaning
- Breaker plates ensure superior filtration resulting in less defective end products
- Rheological testing of the polymer allows for the distribution to be optimized for the entire screen area
- Constant velocity downstream of the breaker plate

Customer-Specific Solutions

- Variety of breaker plates and screen retainer coatings are available to meet your process requirements
- Pressure-reduced breaker plates
- Breaker plates available to handle sensitive polymers

Features

- Customized breaker plate designs for different bore diameters to accommodate a wide range of polymers
- Additional types of material available

Screen Retainer

Screen retainers secure the filter medium in the screen cavity during your backflush procedure.

Benefits

- Improved quality of the end product
- Reduced number of shut downs



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Nordson Screen Pack

The Nordson Screen Pack is made of high-quality weaves, combined to ensure the highest filtration efficiency.



Benefits

- Efficient filtration of contaminations, e.g. fiber, wood, paper, black specks, gels
- Prolonged working life of the screen pack, more output between screen changes
- Increased product quality
- Easy installation
- Tailored to the screen cavity to avoid melt flow around the edges

Features

- High-quality weaves, combined to meet your process requirements
- Spot welded for maximum stability
- Ultrasonically cleaned to eliminate oils and grease and ensure a high quality end product
- Available in various sizes
- High-quality filtration media

Super Plates

Using a super plate in a screen changer allows the utilization of the total screen area; not just the open area of the breaker plate borings.



Benefits

- Utilization of the total screen area, not just the open area of the breaker plate borings
- Maximizing the total area allows for 98% open screen area
- Depending upon the viscosity of the material being processed, pressure losses can be reduced
- Significantly increased screen life

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Filter Candles

Filter candles can be used in combination with a piston type screen changer to increase the available filtration area. They are available in different filtration finenesses and sizes. Filter candles are mainly used in fiber and virgin or high-end film applications.



Benefits

- Increased filter area with the same machine size possible
- Deep filtration and the use of sintered media are possible
- Enlarged filter surface area from one to several m² in one screen cavity of a piston screen changer possible
- Low pressure losses due to the large surface area
- Low residence time of the melt in the screen changer

Features

- Available for different machine sizes
- Retrofittable
- Reusable
- High-quality filtration media

FlexDisc™

The BKG® FlexDisc™ allows for a significantly enlarged filtration area, without increasing the machine size and weight. You can realize sizes of filtration areas that are far beyond what flat screens can provide. The FlexDisc is mainly used in fiber, bottle-2-bottle and film applications.



Benefits*

Compared to conventional single round screens

- Larger filtration area
- Finer filtration
- Higher throughput
- Prolonged filter life of filtration media
- Reduced specific backflush volume due to fewer required backflushes
- Gentle filtration - less shear stress that leads to the protection of the molecular structure, resulting in improved end product quality (less gels)
- Smaller machine size for same throughput possible

Features

- Robust design
- Rheologically optimized
- Mechanically reinforced
- Backflushable
- Reusable
- Retrofittable
- High-quality filtration media

*Not applicable simultaneously

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