

BKG® FlexDisc™

(Patented)

Things change. Products evolve.

Technical Innovation

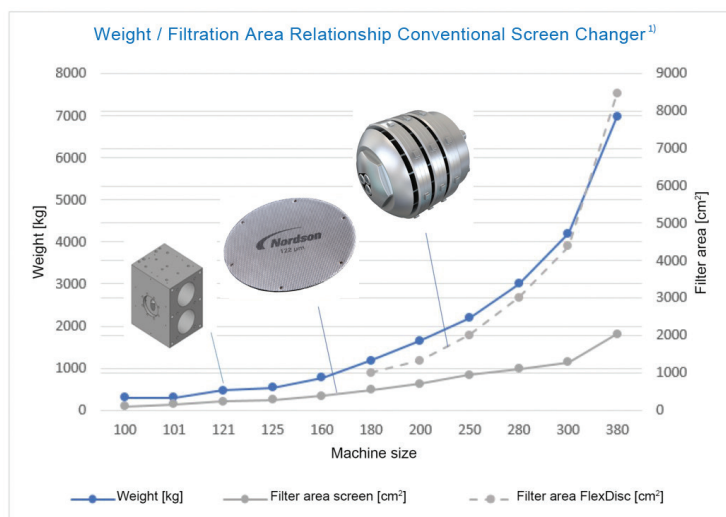
Continuous improvement is one key philosophy of Nordson. We put proven technology to the test and searched for possible improvements.

The BKG® FlexDisc™ is a result of this and is now an established product that has already provided numerous customers with improved filtration results.

The patented BKG® FlexDisc™ provides a mechanically reinforced design, withstanding higher pressures.

Enlarged Filtration Area

The BKG® FlexDisc™ allows you to significantly enlarge your 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.



¹⁾ Data for a screen changer with two screen cavities.

Increased Output Capacity

Backflushing is a highly efficient way to prolong the lifetime of the filtration medium and reduce operator intervention. Although, with every backflush procedure it creates melt loss. With the new optimized FlexDisc™ the melt loss can be further reduced, leading to significant savings in material costs compared to flat screens.

*Not applicable simultaneously.



Applications

- Bottle-2-Bottle PET Recycling
- PET Fiber Production
- Battery Separator Film

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 and therefore protection of the molecular structure and increase of the 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



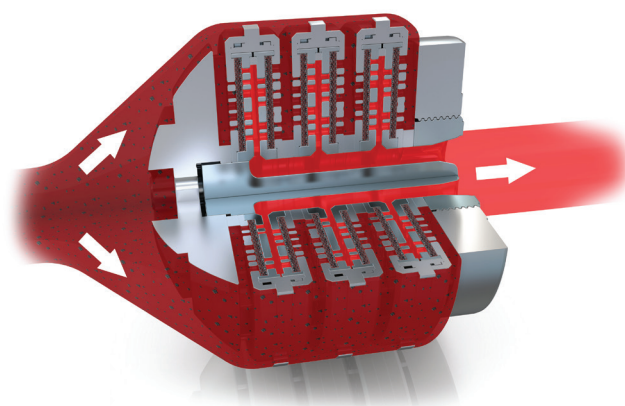
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Numerous Discs - One Stack

Design Structure

Dependent on machine size two to four BKG® FlexDiscs™ are combined on one filter stack.



Working Principle

The contaminated melt enters the filter stack from the upstream side and is evenly distributed among the FlexDiscs™, each equipped with two high quality Nordson screen packs, filtering out all dirt particles.

The BKG® FlexDisc™ is rheologically optimized and verified by a CFD analysis.

Handling / Filter Change

Special optimized handling tools for assembly, disassembly and for a fast and secure filter change are within scope of delivery.

Available Sizes

Screen Changer Type	Screen Changer Size	Available FlexDisc Size	Number of Cavities	Total Filtration Area (cm²)
D-SWE K-SWE-4K-75/RS V-Type 3G	180	6" - 2	1 to 4	#cavities x 500
	200	7" - 2	1 to 4	#cavities x 666
	250	8,5" - 2	1 to 4	#cavities x 1000
	280	8,5" - 3	1 to 4	#cavities x 1500
	300	10" - 3	1 to 4	#cavities x 2200
	320**	12" - 3	1 to 4	#cavities x 3200
	380	12" - 4	1 to 4	#cavities x 4240

**only available for the BKG® HiCon™ V-Type 3G

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