

filtertechnik.Europe

Better Function in Metal Mesh

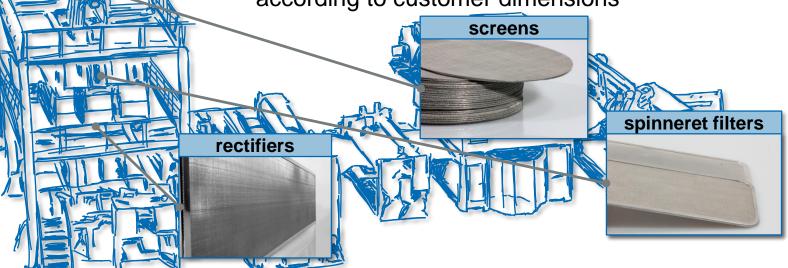
Filtration 4.0 - your solution for optimized nonwovens filtration

Metal filters enable efficiency



 The screens for continuous compound/plastic purity according to customer specifications

- The spinneret filters for fine filtration and production uptime according to customer requirements
- The rectifiers for product quality and process reliability according to customer dimensions



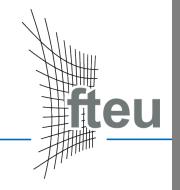
Fluid Filtration Fluid
Dispersion

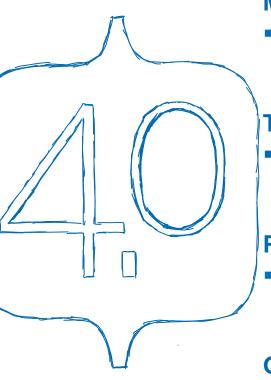
Precision Assembly

Sound Absorption

Heat Absorption

Nonwovens filtration Our approach – Filtration 4.0





Motivation - offer added value service!

 Let's offer the customer a plug'n'play service instead of a conventional product

Technology – drive innovation!

 Let's focus on what could be possible instead of on just what worked yesterday

Partnership – unite expertise!

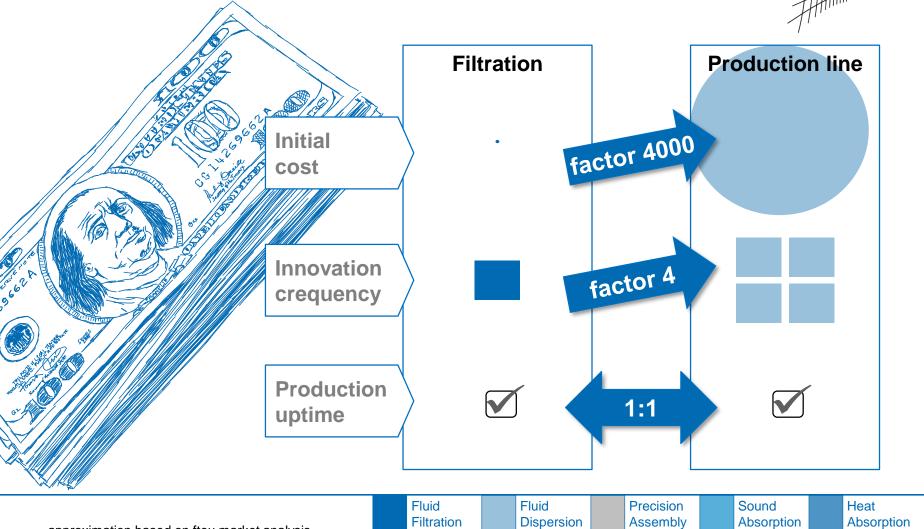
 Let's combine our expertise for our common benefit instead of conservative "this is mine – this is yours"

Glocal – serve customers worldwide!

 Let's serve our customers with global standards and local flexibility for efficient global networks



No production without the filter



approximation based on fteu market analysis

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Better Function in Metal Mesh

Slide 4

Spinneret filter as efficiency key





spin plate

Segmentation of filtration

- Flow in Focus on even distribution of the melt and seperation of larger particles through pre-filtration
 - **Filtration** Focus on increasing dirt-hold-capacity and fine filtration to ensure constant product quality
 - **Flow out** Focus on the dispersion of melt over the entire spin plate surface and minimaztion of dead spots

Definition of test types

Seven test types for the focused trial and analysis of the actual improvement potential of flow in, cross flow, and flow out

Configuration of Spinneret Filtration 4.0

 Combination of efficiency-enhancing flow in, filtration, and flow out characteristics for the new cutting-edge filtration solution Spinneret Filtration 4.0

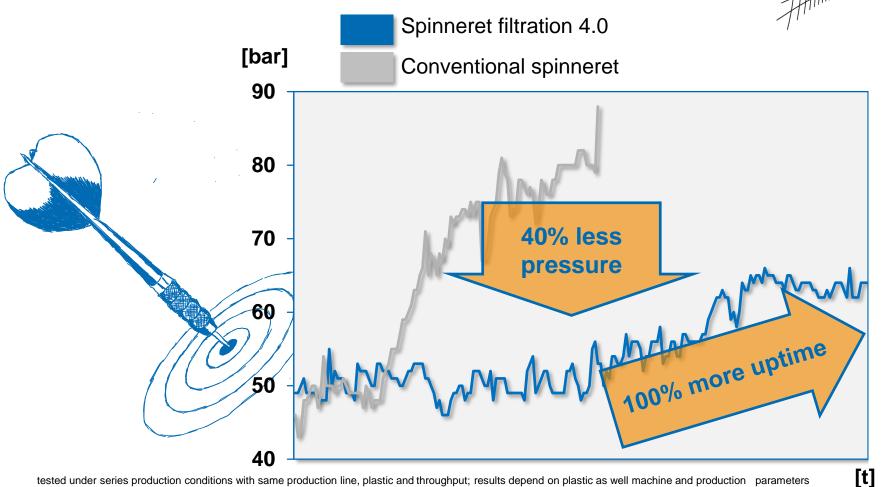


Filtration 4.0 – the results



Heat

Absorption



Fluid

Dispersion

Precision

Assembly

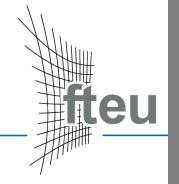
Sound

Absorption

Fluid

Filtration

Filtration 4.0 – the results





Spinneret 4.0

Improvements of Filtration

✓ Flow in – Optimized layer specification leads to a more even melt distribution and decelerates pressure increase

✓ Filtration – 3D-structure of fine filtration increases dirt hold capacity and decelerates pressure increase

Flow out – Improved mesh specification and filter manufacturing improves melt flow towards the spin plate

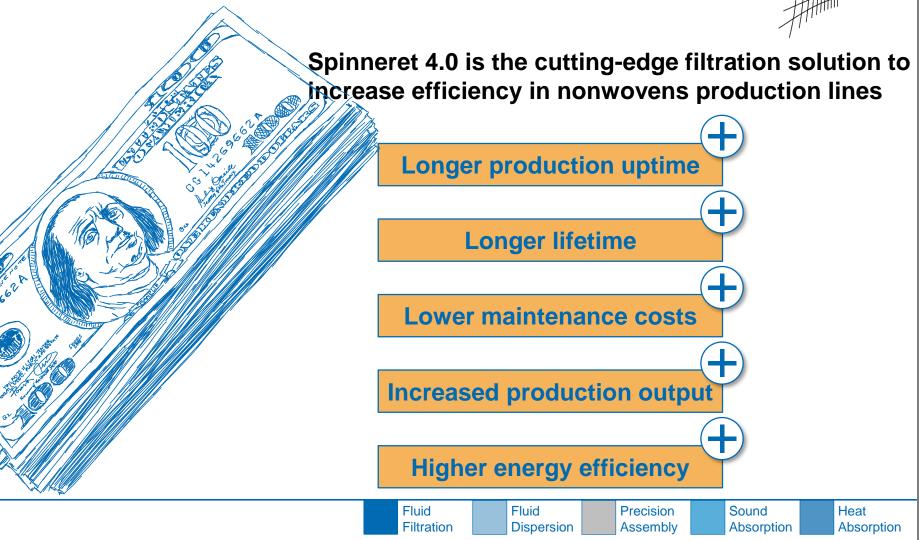
Identification of variables to optimize filter specification based on the plastic/compound in use (additivies, gels etc.)

tested under series production conditions with same production line, plastic and throughput; results depend on plastic as well machine and production parameter



Filtration 4.0 – your benefits





Contact **Our coordinates**



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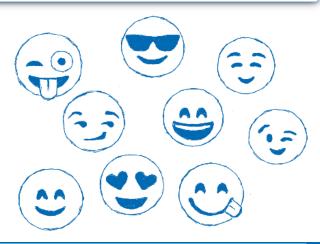
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