



filtertechnik.Europe

Better Function in Metal Mesh

News Update IV/2016

A happy and successful New Year 2017!

Through our platform News Update we want to keep you - our partners - updated on current activities and developments around filtertechnik.Europe. On a quarterly basis, we report about four topics to give insights and an impulse for further thoughts, ideas, and discussions with you.

With one year, having just ended we want to thank you for the partnership and cooperation in the past. 2016 was a good year for filtertechnik.Europe where we successfully addressed our process stability as well as our market approach in Europe and Asia.

2017 promises to be a very interesting year. Recent political developments have caused uncertainty about the concrete perspectives of international trade. However, the manufacturing sector has always been the basis for the development of markets worldwide. As such it will continue to be a cornerstone for global economic growth. As a result, we are experiencing an increased demand for solutions that focuses on excellence in quality and function. The translation of the customer requirements into sound solutions only gains in importance in this context. We aspire to understand you better and will expand our competence to connect understanding and expertise into better function for our individual customers worldwide.

We look forward to our future to continue our activities with you and using this as basis to be more innovative and develop new solutions that bring superior function in metal mesh to the marketplace.

Online: Better Function in Metal Mesh

We have launched our new website on www.fteu.de. With the presentation of fteu® online we want to give our customers and prospective customers facts, data, and information about our metal mesh solutions and their performance potentials. Intuitive navigation on the personal computer or mobile device allows convenient access from anywhere with an internet connection.

Function for our customers is the focus of our activities. Through our homepage, we give insights into the key topics and parameters that are relevant to create solutions that bring functional performance to our customers. We currently offer 18 product groups within our standard scope that are represented with product information, photographs, background on customizing options, and downloads. In addition, we give an overview of technology for state-of-the-art metal mesh solutions and the fteu® Group are all about. As downloads we offer a variety of information on our certifications, company details, or material specifications. Through our homepage, we always share the latest news. We hope this gives you quick access to interesting information. Check out the website to explore the home of Better Function in Metal Mesh!

Welcome to fteu®: Home of Function in Metal Mesh



Fluid Filtration



Fluid Dispersion



Precision Assembly



Sound Absorption



Heat Absorption

Explore www.fteu.de!

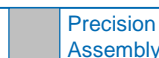
Peak into www.fteu.de



Fluid
Filtration



Fluid
Dispersion



Precision
Assembly



Sound
Absorption



Heat
Absorption

Consistent Quality through Q-Points

At fteu® it is our priority to create excellence in quality throughout our entire product scope. Our quality management in accordance with ISO 9001 (Germany) and ISO/TS 16949 (China) has been awarded recertification at the end of last year.

In our products quality demands a sustained focus on all aspects of the technical solutions: materials, dimensions, handling, manufacturing, assembly, finishing, packaging. This requires consistent documentation from the initial customer interaction through the entire order processing to ensure all information regarding quality can be accounted for.

To ensure constant quality regardless of product group or batch size we have improved our quality routines and visualization throughout production. With our newly established Q-Points we transparently visualize quality for all of our product groups and their components. Limiting samples illustrate the clear line between conforming and defect parts. The distinct reference of each quality parameter to a manufacturing or assembly technology ensures precision in production and a solution-oriented approach for adaptations to existing products or the creation of new products. Q-Points are not only a tool for our production in Germany, but throughout the production at BDFE in China they assure a transparent and consistent quality standard for existing and new products of metal mesh from the fteu® Group.



Excerpt of Q-Point for cylindrical screens at fteu® production facilities in Heinsberg (Germany)



Fluid Dispersion for improved industrial Processes

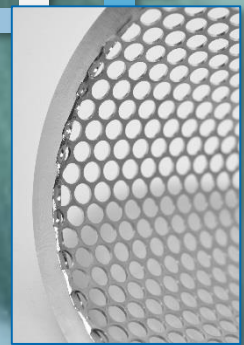
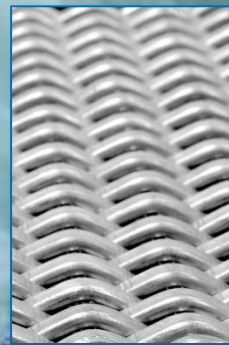
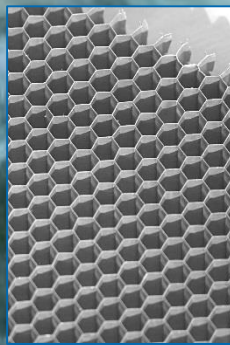
We are creating new solutions for fluid dispersion. The design of dispersion solutions is focused on creating defined streaming conditions for laminar flow or homogenization. Metal mesh offers an open and precisely defined structure that is ideally suited to create desired flow channels and can be combined with other materials to form a product with the desired influence on flow and pressure conditions in the system. Through a variety of projects, we are bolstering our expertise in the field of fluid dispersion further. In the past, we have designed solutions predominantly for plastics melt and air for extrusion and plastic fibre processing (screens and air rectifiers).

We have now created solutions improve the homogenization of air and even powder allowing our customers to run their processes faster as undesired turbulence in material processing is reduced significantly. This was the starting point to research and develop solutions that address fluid dispersion in general as this is our basis to create products that possess superior function in application. Currently we are in the process of designing and testing material configuration that can create defined streaming conditions for application in material processing or venting. For function verification, we are identifying further pilot partners to test dispersion solutions under actual conditions. Contact us if you are interested in improving the streaming conditions in your processes or machines.

How can we maximize the uniformity of velocity throughout a fluid stream?

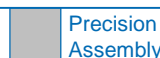


Fluid Dispersion



How can we homogenize a stream of a given material to accelerate the process?

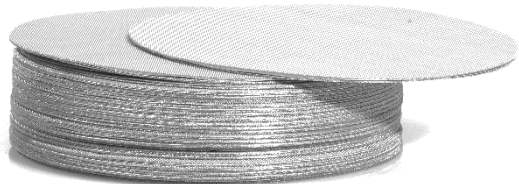
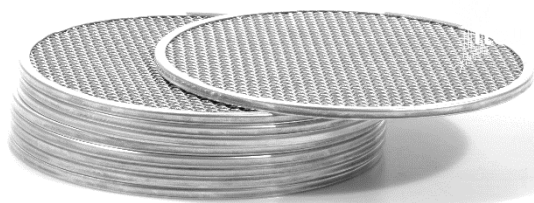
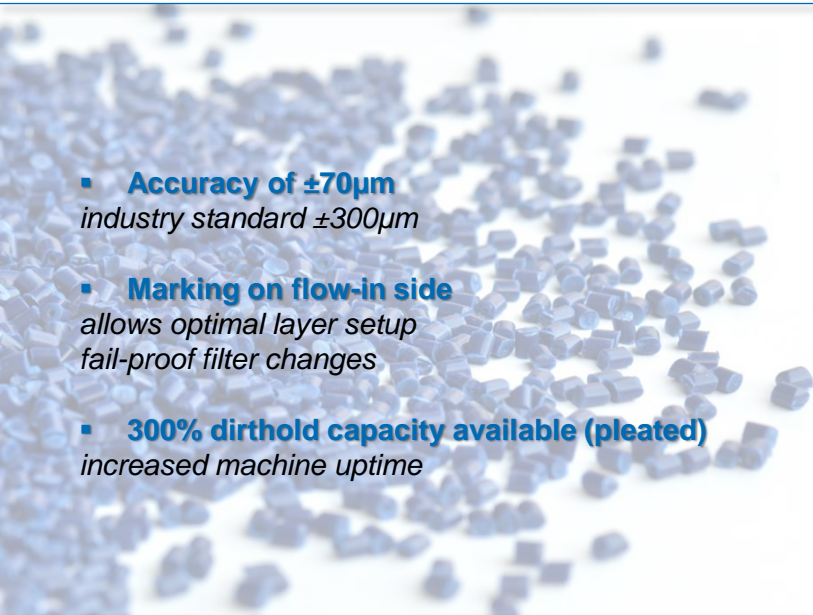
Guide questions and material overview for better fluid dispersion using metal structures



Precision Screens for Quality in Plastics

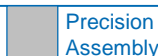
The extrusion is the start of any plastics manufacturing process. With the extrusion process a plastic melt is created which is subsequently processed and shaped into the plastics product. At the end of the extrusion process the melt is filtered to separate dirt particles from the melt. The effective filtration is paramount as recycled materials and other contaminations are quality risks.

Melt filtration predominately employs filtration fineness in a range of 25-250µm. This is enforced by multilayered filter screens of wire mesh. At the same time the precision of quality screens has tolerances of ±300µm in its diameter. This compromises effective filtration, leads to unfiltered melt flow around the edges of the screen and inconsistent melt quality in production. fteu® has developed precision screens that feature an accuracy of ±70µm in diameter and therewith allow consistent filtration over the entire melt flow. To optimize your filtration further we offer clearly marked screens to inform the operator of the product specifications and the flow-in side. To prolong the uptime of filter screens we offer our screens also as pleated versions that triple the dirt hold capacity of your plastics filtration. Precision screens improve the performance of your screen changer or extrusion process immediately. Talk to our experts today and experience how precision screens can help you improve.



- **Accuracy of ±70µm**
industry standard ±300µm
- **Marking on flow-in side**
allows optimal layer setup
fail-proof filter changes
- **300% dirt hold capacity available (pleated)**
increased machine uptime

Selected capabilities for fteu® precision screens



Outlook

In our roadmap for the fteu® Group we have specified actions to improve our production technology and developing new products for the market while upholding our commitment to excellence in quality. On the sales side, we want to increase our market share in quality-oriented sectors and translate our competences for developing markets. Additionally, we are creating an improved ERP-solution that will allow us to be more transparent and consistent in what we do and how we document it. This is an important enabler to increase our speed for the market in all process steps – from inquiry through delivery through service. Our synchronized actions will make us more connected and bring the fteu® Group with the market closer together and open new perspectives.

We will keep you updated on some highlights and are looking forward to 2017!

Best regards from Heinsberg,

Dr. Nicolas Komorek



Contact us!

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