



WORLD WIDE WEAVE

Woven high-tech solutions for micro-screening

GKD to premiere flow-optimised 6 µm ODW at the IFAT

One of the key future demands on industry and society is a responsible utilisation of water resources. With its all-round range of solutions for the treatment of wastewater and process water, GKD – GEBR. KUFFERATH AG, the international leader in filtration and process belt technology, is well-known for regularly setting new standards. At the IFAT 2016 in Munich from 30 May to 3 June, the world's leading trade fair for water, sewage, waste and raw materials management, GKD will be presenting a range of innovative developments for cost-effective treatment of municipal and industrial wastewater. From dewatering or drying of sewage sludge to micro-screening water treatment, the owner-managed technical weaver will be offering a fascinating insight into its comprehensive range of products at Stand 318 in Hall A2. Professionals and experts from the environmental sector will be particularly interested in a number of innovations and further developments of established GKD products, for example filter segments or disc filters with a flow-optimised dutch weave mesh (ODW6) that, with filtration rates down to 6 µm, promises higher permeability and longer service life. The range of advanced technology on exhibition will be rounded off with the MAXFLOW Belt Filter system. Its self-cleaning endless woven stainless steel wire mesh belt makes it an efficient and cost-effective alternative option for the filtration of process fluids.

When it comes to filtering out ultrafine particles from water and wastewater flows, optimised dutch weave meshes (ODW) in disc filters for water treatment offer extra reliability. This is due to their special weave



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construction, in which the pore size is determined using the internationally recognised IMVT formula. The slot-shaped pore geometry on the surface of the mesh, with smaller pores than in the interior of the mesh, reliably separates particles above the required cut point. This special pore structure gives the meshes a high dirt-holding capacity combined with a very low flow resistance. It also means that the ODW meshes have a low tendency to clog and can be easily backwashed with a high-pressure water jet. Separation rates in the micro-filtration range down to 10 µm qualify these meshes as all-rounders for a multitude of applications in water processing. And the weaving technology used in their production guarantees that their sophisticated mesh geometries can always be precisely reproduced.

New dimensions in micro-screening

Now, thanks to targeted advances in weaving technology, GKD has succeeded in further increasing the filtration efficiency of ODWs by reducing the pore size to 6 µm. This new flow-optimised mesh type, called ODW6, combines unprecedented filtration rates with a 3-times higher throughput rate than comparable products. And its 8.5-times lower pressure loss coefficient compared to other products also speaks for the outstanding efficiency of this innovative mesh construction. Furthermore, the new mesh features considerably more stainless steel wire in the mesh surface, which ensures a high degree of pore stability and more mechanical strength for the whole mesh.

Positive balance in recycling and waste reduction

For process water filtration with a specified separation rate above 80 µm, the MAXFLOW Belt Filter has already proven itself repeatedly in numerous applications. It provides a filtration performance comparable to that of conventional paper belt filters, but with significantly lower costs and less environmental impact. Thanks to its self-cleaning endless stainless steel



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mesh belt, it eliminates the need for consumables like paper belts, and the expense and environmental strain involved in their disposal.

When custom-configuring their industrial meshes to meet the requirements of specific processes, the Düren-based filtration experts apply state-of-the-art simulation technology and additional pressure drop estimation. With their decades of accumulated expertise in consulting and engineering for a wide range of industrial branches – and their world-leading weaving technology – GKD is a well established solutions provider for filtration challenges in the municipal and industrial water treatment sector. No wonder then, that the mesh experts will be sought-after partners at the IFAT for discussions on everything from sewage sludge dewatering to water treatment.

**Visit GKD – GEBR. KUFFERATH AG at the IFAT 2016
Messe München
Hall A2
Stand 318**

4,548 characters incl. spaces

GKD – GEBR. KUFFERATH AG

The owner-run technical weaver GKD – GEBR. KUFFERATH AG is the global market leader for metal and plastic woven solutions. Under the umbrella of GKD – WORLD WIDE WEAVE the company combines four independent business units: SOLID WEAVE (industrial meshes), WEAVE IN MOTION (process belt meshes), CREATIVE WEAVE (architectural meshes) and COMPACT FILTRATION (compact filter systems). With its seven plants – including the headquarters in Germany and other facilities in the US, Great Britain, France, South Africa, China, India and Chile – as well



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as its branches in Spain, Dubai, Qatar and worldwide representatives, GKD is never far from its customers.

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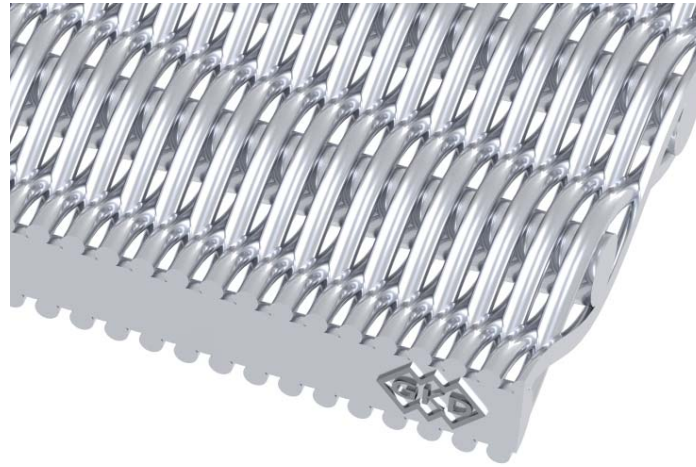
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Picture 1: Installed ODW filter elements.

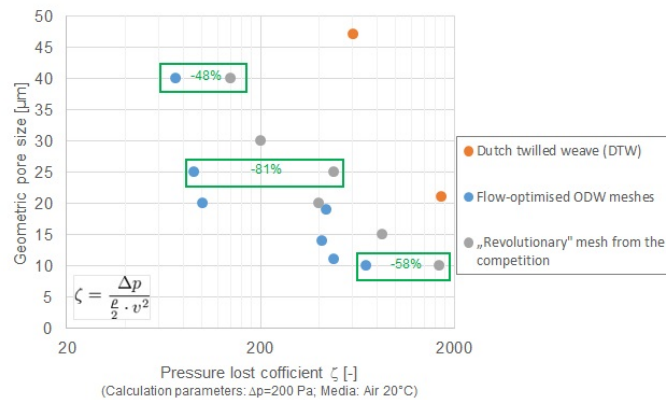


Picture 2: The slot-shaped pore geometry on the surface of the mesh, with smaller pores than in the interior of the mesh, reliably separates particles above the required cut point.

Picture 1-4 © GKD

We will be happy to send you the desired images in printable resolution by e-mail.

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Picture 3: The throughput is possible due to a specific mesh construction with an 8.5-times lower pressure loss coefficient than the products currently being offered by the competition.



Picture 4: MAXFLOW Belt Filter with self-cleaning endless stainless steel mesh belt by GKD.

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