



WORLD WIDE WEAVE

Efficient water filtration with woven metal meshes

IFAT: GKD's innovative filter meshes achieve excellent results at the trade fair

The business units **SOLID WEAVE** and **COMPACT FILTRATION** of the company **GKD – GEBR. KUFFERATH AG** from Dueren, Germany, draw a very positive balance of their presence at this year's IFAT in Munich. At the world's leading trade fair for water, sewage, waste and raw materials management, they showcased filtration solutions made of woven metal mesh for water treatment and attracted a wide range of professional visitors to the GKD stand. Innovative filter segments for micro-filtration and specially coated meshes as well as the deployment possibilities of the **MAXFLOW** belt filter drew in large numbers of specialists interested in optimisation potential in the field of water treatment.

For efficient processing of brackish water and waste water, ultra-fine separation rates, maximum flow rates and long service life are all crucial factors. The IFAT in Munich was a magnet for countless planners, capital equipment manufacturers and plant operators from all over the world, all of them in search of solutions to these challenges. "Our conversations at the stand were predominantly about practical issues, as the specialist visitors all brought a lot of know-how about everyday applications with them," comments Peter Wirtz, Business Unit Manager of **SOLID WEAVE**.

Efficient micro-filtration

With its Optimized Dutch Weaves (ODW), the business unit **SOLID WEAVE** presented an all-rounder for a wide range of applications in the field of water



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treatment. Separation rates in the micro-filtration range down to 10 µm, high dirt-holding capacity and at the same time good cleanability make this mesh type the ideal solution for high flow rates and long service life of filter media. Optimised Dutch Weaves are characterised by slot-shaped pores on the mesh surface and larger pores inside the mesh. Particles larger than the specified separation threshold are retained directly on the mesh surface. In contrast, smaller particles pass through the interior of the mesh without blocking the filter, thus enabling trouble-free cleaning through simple backwashing.

Optimised process balance

Visitors to the GKD stand were also very interested in mesh coatings tailored to specific requirements. In particular, newly developed structural coatings for filter units performing below the 10 µm mark formed the basis for discussions about highly promising application potentials. Disc filters made of GKD woven metal meshes with anti-sticking coatings shorten cleaning times and lower water consumption, and thus ensure an improved total balance of the filtration process. In addition, anti-fouling coatings offer promising prospects of cost-savings in demanding treatment processes for brackish water and waste water.

Reduced consumption costs

A sustainable alternative for process water filtration is the MAXFLOW belt filter system with its self-cleaning belt made of stainless steel wire mesh. In comparison to conventional paper belt filters, it substantially reduces consumption and disposal costs while maintaining fully comparable filtration efficiency. Its high flow rate makes the belt filter the ideal solution for a range of applications, including the filtration of process fluids and process waste



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water. At the IFAT, the MAXFLOW belt filter attracted the attention of visitors from a wide range of application fields.

Peter Wirtz's summary is correspondingly positive: "All the great conversations at the fair have resulted in numerous follow-up appointments being made to discuss concrete projects. This year's IFAT was yet another complete success for us!"

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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, South Africa, China, India and Chile – as well as its branches in France, Spain, Dubai, Qatar and worldwide representatives, GKD is never far from its customers.

For more information:
GKD – GEBR. KUFFERATH AG
Metallweberstraße 46
D-52353 Düren
Tel.: +49 (0) 2421 / 803-0
Fax: +49 (0) 2421 / 803-227
E-mail: solidweave@gkd.de
www.gkd.de

Please send a reprint to:
impetus.PR
Ursula Herrling-Tusch
Charlottenburger Allee 27-29
D-52068 Aachen
Tel.: +49 (0) 241 / 189 25-10
Fax: +49 (0) 241 / 189 25-29
E-mail: herrling-tusch@impetus-pr.de