



WORLD WIDE WEAVE

## **GKD offers the right belts for your applications**

Greater efficiency in dewatering and drying

**GKD – Gebr. Kufferath AG (GKD) will be presenting an attractive range of innovative and proven solutions for waste water and sludge treatment at the IFAT fair in Munich. The leading international technical weavers will be on hand from May 14 to 18 in Hall A2 (Stand 318) to showcase its groundbreaking process belt solutions for sewage sludge dewatering and drying, as well as innovative new fine and superfine mesh for water filtration. For the first time, the company will be presenting spiral belt solutions from its own in-house production. Just one year after their market launch, these spiral belts are in great demand for sludge dewatering applications thanks to their vastly superior performance in comparison with conventional products. The type 1003 filter belts represent another trade fair highlight. These proven all-rounders for belt presses are available with integrated wear indicator at no extra charge to customers. The experienced specialists from GKD are therefore looking forward to interesting questions and stimulating discussions with the industry professionals at the fair.**

According to information provided by the Federal Statistical Office, around 65 percent of all sewage sludge in Germany was thermally recycled in 2016. This proportion has increased by five percent within the last two years and 18 percent in the last ten years. Experts are anticipating another significant increase as a result of the amended Sewage Sludge Ordinance. In the medium term this legislation prohibits the spreading of sewage sludge from sewage plants with a capacity for more than 50,000 or more than 100,000 population equivalents. In addition to this, phosphorus recovery will become obligatory for all sewage plants serving more than 50,000 residents. A



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transitional period of twelve years (100,000) or 15 years (50,000) has been put in place here, i.e. mineral phosphorous must be recycled from 2029/32 onward. This requirement should contribute to the supply reliability of phosphorous, which has been included in the list of the 20 most critical raw materials by the EU Commission. Experts consider mono-incineration to be the most realistic of the potential phosphorous recycling processes. The efficiency of the upstream sewage sludge dewatering and drying process plays a key role in any form of thermal recycling. For mono-incineration, the sewage sludge must have dry residue content of at least 20 percent. Co-incineration even requires a dry substance proportion of more than 90 percent.

### **Mechanical dewatering**

The belts for mechanical dewatering, developed by GKD together with leading machinery and plant manufacturers, offer ideal prerequisites for both of these thermal processes. In belt presses, belt type 1003 impresses with its exceptional transverse stability and its particularly flat, robust PAD seam. These enable severe loads to be handled. Unmatched in dewatering performance and particle retention, it is considered a synonym for efficient dewatering.

### **Belt type 1003 with wear indicator**

GKD has now fitted this worldwide established filter belt with an integrated wear indicator as standard. A contrasting-colored core in the polyester monofilament is a reliable indicator of mechanical abrasion. This built-in early warning system allows customers to detect early on any incorrect adjustments in the system environment after the belt has been fitted, which in turn causes wear to the belt. The wear indicator also guarantees a high degree of planning reliability in day-to-day operations, as the degree of process-based wear is displayed. This helps prevent belt damage, avoid



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unplanned downtimes resulting in expensive production losses and plan belt changes effectively. GKD customers receive this literally visible process reliability at no extra cost, as the belt expert equips its proven filter press belts with the wear indicator as standard and thereby adding another USP to its belts. As an additional bonus, GKD is currently developing a wear level reader, which in future will allow users to determine the percentage of wear via direct comparison with the belt.

### **The "1003" of spiral belts**

The spiral belts that GKD develops and produces in-house for pre-dewatering and belt presses will also be on show for the first time at the IFAT fair. With this belt type, the company is now also offering the long-awaited expert solution for applications with complicated sludges, such as those typically encountered in the paper industry. The seamless belt also guarantees efficient dewatering when processing fibrous sludges, as its design compensates for screen warpage. The belt type, whose performance matches that of the 1003 mesh belt with application-optimized apertures, gets its excellent stability from a particularly strong drawing process employed by GKD. This specific post-treatment significantly reduces elongation of the belts in the process and – unlike conventional belts – eliminates the need of having to repeatedly re-adjust the belt tension during fitting. The spiral belt from GKD therefore combines the benefits of a seamless dewatering belt with the transverse stability of a woven belt. News spread quickly about this excellent performance. Thanks to the industry experience GKD has accumulated over decades, as well as its development and manufacturing expertise, the spiral belt became a huge hit in the field of municipal and industrial waste water treatment almost instantly.



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### **Dryer belts for high-temperature and low-temperature applications**

The wide range of proven dryer belts presented by GKD at the IFAT fair is in response to the stricter requirements of thermally recyclable sludges. Measuring up to eight meters wide and 200 meters long, the shrink-resistant belts guarantee both cost-saving and environmentally friendly sewage sludge drying. The belts offer excellent dimensional stability and are suitable for temperatures up to 150°C in high-temperature dryers or up to 110°C in low-temperature dryers. Depending on the application, the tailor-made belts are produced from polyester, PPC or have bronze wires interwoven in the running direction for protection from electrostatic charges. This is guaranteed by their application-specific thermosetting, which allows the belts to be adjusted precisely to the respective environmental conditions. All equipment plant manufacturers rely on this expertise of the market leader GKD.

The belt experts from GKD will be on hand at the IFAT fair to answer questions and discuss special challenges with users and plant manufacturers.

**Visit GKD – Gebr. Kufferath AG at IFAT 2018**

**Munich trade fair**

**Hall A2**

**Stand 318**

*6.552 characters incl. spaces*

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As a privately owned technical weaver, GKD - Gebr. Kufferath AG is the world market leader in metal, synthetic and spiral mesh solutions. Four independent business divisions bundle their expertise under one roof: Industrial Mesh (woven metal mesh and filter solutions), Process Belts (belts made of mesh and spirals), Architectural meshes (façades, safety and interior design made of metal fabrics) and Mediamesh® (Transparent media façades). With its headquarter in Germany and five other facilities in the US, South Africa, China, India and Chile – as well as its branches in France, Spain, Dubai and worldwide representatives, GKD is close to markets anywhere in the world.

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