



## **GKD Group: Greater efficiency in filtration, dewatering, and drying**

**The GKD Group, the global technological leader in technical weave, will be showcasing its innovative products and solutions to central challenges in the water industry at WEFTEC 2021. The woven filter media and process belts provide greater efficiency in filtration, dewatering, and drying applications – helping make the world a healthier, cleaner, and safer place.**

### **Filtration**

The three-dimensional POROMETRIC high-performance mesh is a worldwide benchmark for plastic-free water filtration. This mesh type has won many awards and is characterized by a highly open, ridge-shaped weave with a rectangular pore structure. Compared with the square pore structure of a flat mesh, POROMETRIC thereby boasts a 30 percent larger free filter surface and offers up to 40 percent greater flow. The tendency to block and the pressure drop are reduced, while the best results are achieved in separation performance, dirt holding capacity, and cleaning. The open area of up to 90 percent reduces the overall weight, making usage of the metal mesh particularly economical. Despite its high porosity, POROMETRIC offers excellent mechanical stability. Unlike conventional synthetic mesh, no abrasion occurs during challenging water processing, so the high-tech mesh also reduces the entry of microplastics into urban waters or aquacultures. With greater productivity, a long service life, significant savings in terms of both energy consumption and space requirements, as well as rugged renewability, POROMETRIC guarantees a previously unattainable increase in efficiency and sustainability in process water and wastewater filtration applications.



## **Dewatering**

In filter belt presses and thickeners, process belt solutions from GKD in woven and spiraled form set worldwide records regarding dewatering performance, particle retention, and transverse stability. Each designed for specific processes, the filter belts boast a long service life even at high pressures. Belt type 1003 is considered a synonym for unrivaled efficiency worldwide in the field of dewatering. Both users and equipment manufacturers rely on this certified *made in Germany* brand quality. Belt type 5090, which has been specifically optimized for angle presses, excels through its outstanding mechanical stability. The spiral belt solutions produced by GKD also deliver significantly better performance than conventional spiral belts in the field of sludge dewatering. Due to their high dewatering performance, all GKD filter belts reduce energy consumption in the downstream thermal drying process. Thanks to optimum cleaning properties, they also reduce both water and energy consumption, which positively impacts the cost-effectiveness and environmental balance of the processes involved.

## **Sewage sludge drying**

The process belts from GKD are the first choice for municipal and industrial sewage sludge drying. Measuring up to eight meters in width and 200 meters in length guarantees cost-saving and environmentally friendly sewage sludge drying in both high-temperature and low-temperature dryers. Matched specifically to the application and environmental conditions, they are used as standard PPS belts or PPS CONDUCTO belts with patented electrostatic discharge. The dimensionally accurate and permanently dimensionally stable belts are resistant to both mechanical and chemical influences and can withstand temperatures of up to 180°C. Their long service life, excellent running properties, and high air permeability guarantee greater efficiency in sewage sludge drying applications.



**You can find more information on the filter media and process belts of the GKD Group at [www.gkd-group.com](http://www.gkd-group.com) or from the GKD experts at WEFTEC (South Building, Booth 1644)**

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### **GKD Group**

As a privately owned technical weaver, the GKD Group 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 six 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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