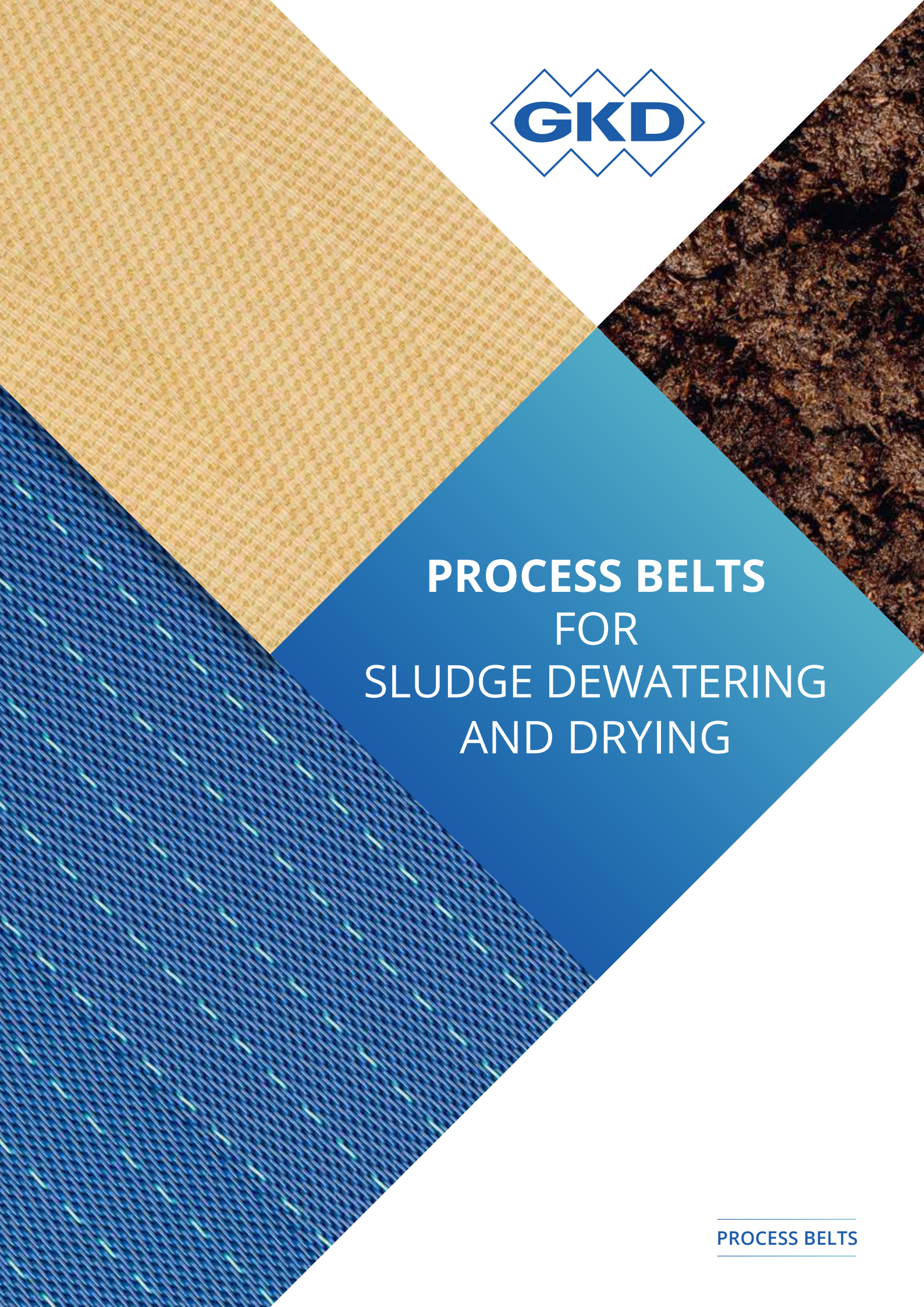


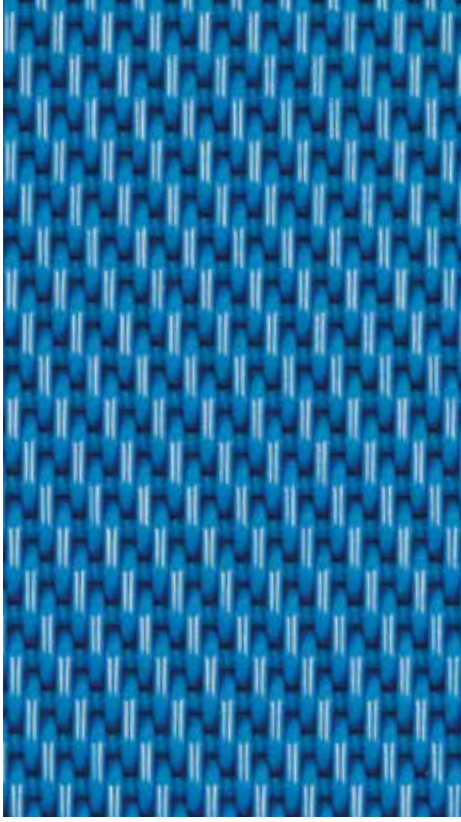
PROCESS BELTS
FOR
SLUDGE DEWATERING
AND DRYING

Efficient sludge dewatering
with process belts produced from synthetic mesh

Whether for industrial sludge, product and chemical sludge, or in municipal sewage plants – process belts from GKD dewater sludge reliably and efficiently. The combination of the right synthetic monofilament, weave, or spiral type as well as the correct opening and permeability makes our process belts particularly effective and robust and guarantees resistance to abrasion and chemical influences. Because they are manufactured on heavy-duty looms for metal mesh or the very latest spiral machines and additionally reinforced through a thermal fixing process, GKD process belts also boast a particularly high level of mechanical stability. Whether as woven or spiral belts, GKD process belts are ideal for belt presses and sludge dryers.

Advantages of sludge dewatering with GKD process belts

- Varied fields of application
- Optimal cake buildup and cake discharge
- Extremely strong and warp-resistant mesh minimizes the risk of deformation and wrinkle formation, thanks to production on special metal weaving looms
- Spiral fabrics with a high degree of form stability thanks to special thermosetting
- High resistance to abrasion and chemical influences
- Optimal throughput rate
- Quick and easy to clean

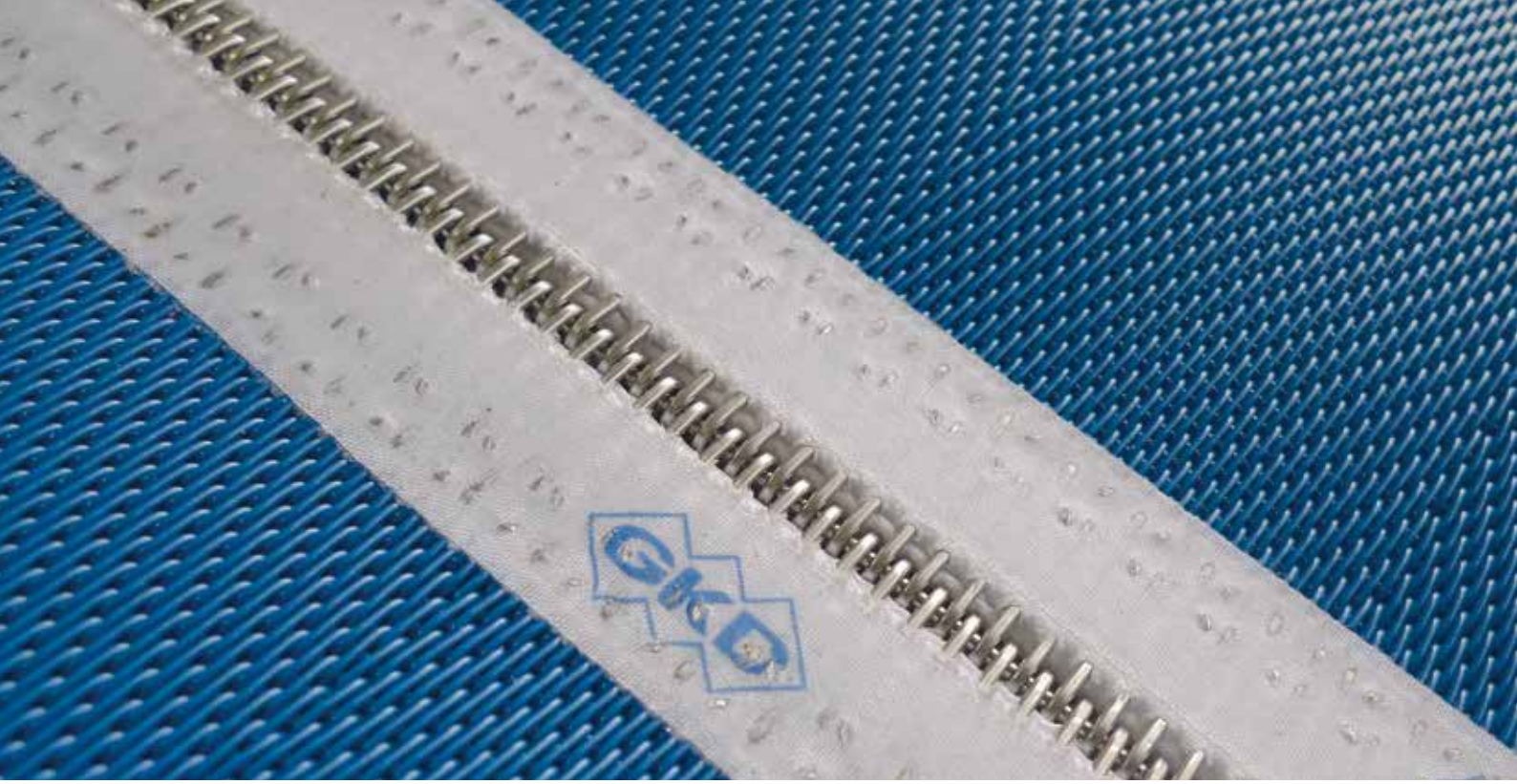


The right process belt for every **sludge dewatering procedure**

Thanks to many years working together with leading manufacturers of belt presses, we at GKD know what's important when it comes to process belts. With our wide range of standard as well as custom-built products, we always offer customers the ideal solution for dewatering all types of sludge. As such, today we manufacture individual process belts made of polyester (PES), polyamide (PA), or polyphenylene sulfide (PPS) with widths of up to eight meters. These pressing belts, drainage belts, and dryer belts are temperature-stable up to at least 200 degrees Celsius and deployable in a pH range of 1 to 14. For individual solutions, our customers can contact GKD staff from sales and technology for advice.

Advantages of individual GKD process belt solutions

- Robust synthetics for even the most demanding process requirements
- Up to eight meters wide
- Temperature-stable up to 200 degrees Celsius
- Can be used under virtually any mechanical and chemical conditions
- For sludges with pH values from 1 to 14
- Individual adaptation and development
- Turnkey process belts with instructions



Long service lives
with flat PAD seam

Just like the process belts themselves, the seams also have to withstand extremely tough conditions: Scrapers, sludge distribution elements, and uneven sludge feeding put the seams under enormous stress. This is why our engineers developed the particularly flat PAD seam, which is exclusively available from GKD and its partners. Not only is it technically superior to other seams, in contrast to other seam solutions it also offers constantly reproducible quality worldwide. In a hot melting procedure, a special pad is melted into the belt mesh and pressed together with metal hooks. Compared to conventional clipper seams, blades and sludge distributors can glide over the seam area far more easily. As a result, the special seam is stronger, more durable, and possesses better running properties. Furthermore, the risk of damage to the seams is reduced to a minimum, the seam area is closed more tightly and product penetration is reduced.

Advantages of the extremely flat PAD special seam*[1]

- High strength and durability
- PAD seam sizes are individually adapted to the process belt mesh
- Optimized belt running characteristics
- Exactly reproducible quality compared to conventional seams
- Ease-of-use (handling)
- Can be printed individually with company logo
- Particularly flat design

*[1] *Alongside the PAD seam, we of course offer other seam solutions for individual applications including woven-on pin seams, woven-on spiral seams, endless woven seams, and (glue-compressed) clipper seams.*

Efficient sludge drying
with process belts produced from synthetic or hybrid mesh

Sludge drying plants reduce the weight and volume of sludge and increase the dry substance to up to 98 percent. Using GKD special belts made of polyester (PES) or polyphenylene sulfide (PPS), drying plants optimally reduce residual moisture. This in turn reduces energy consumption and disposal costs and thus increases efficiency. Our synthetic mesh belts can be used for a range of applications: They cover the low and high-temperature areas in a range from 80 to 200 degrees Celsius and a pH range of 1 to 14. Moreover, the extensively refined belts woven from robust synthetic monofilaments also withstand particularly high surface loads. Thanks to the special mesh structure on the underside, the belts are easy to clean after the drying process using a minimum of water, thereby benefiting the environment.

Advantages of GKD dryer belts

- Robust synthetic monofilaments for even the most demanding process requirements
- Optimal directional stability
- Up to eight meters wide
- Up to 200 meters long
- For low and high temperature applications between 80 and 200 degrees Celsius
- For sludges with pH values from 1 to 14
- Optimal mesh opening for high air permeability and dust reduction
- Individual adaptation and development
- Available as synthetic mesh process belt or as Conducto® hybrid mesh process belt with patented electrostatic discharge

Packaging

The optional tried-and-tested packaging used for GKD process belts is also used for our dryer belts. A solid and stable wooden packaging guarantees secure international transport and also provides an ideal storage option for replacement belts. The special GKD unwinding unit greatly simplifies the process for drawing the belt into the drying system, while at the same time increasing occupational safety.

Convenient belt installation

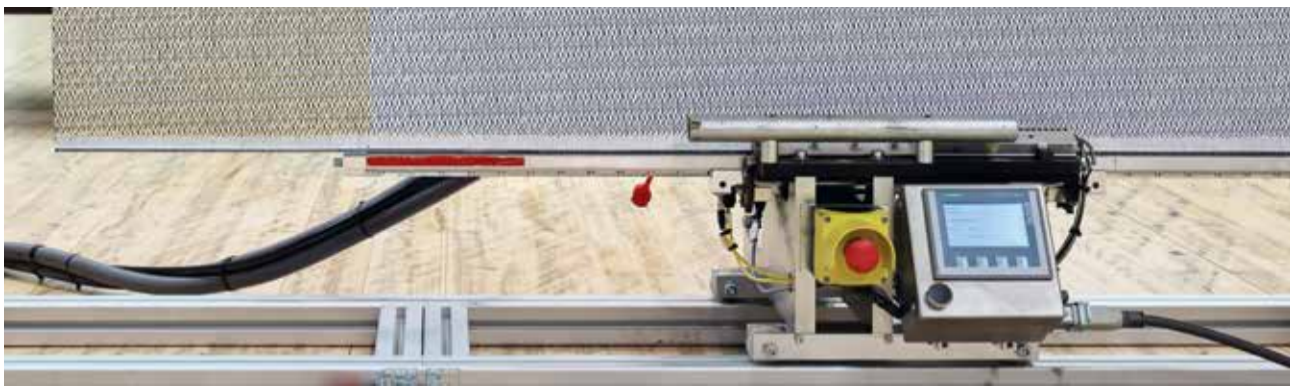
The optional tow-in tools with straps offered by GKD make installation of all GKD filter and dryer belts a breeze without any risk of damage – even when working with particularly long or inaccessible systems. The tow-in tools can be used multiple times, and detailed installation instructions can help you install a large dryer or filter belt yourself. However, if you are not comfortable doing this yourself, our worldwide customer service team will also be happy to take care of it for you.

Individual customer consulting and technical service

Our large team of experts is on hand to help you, no matter what the issue is. Specialist service engineers and technologists are familiar with your business and offer you targeted support – from belt installation and repair, all the way up to trouble-shooting. Our engineers will be happy to train you so that you can change the dryer belts with clipper seam yourself in the future. Whenever you need our support, our service team is of course available for you at any time.

Expert service team - available worldwide

- Decades of experience in installing and servicing metal and synthetic belts on site
- Detailed service planning and preparation
- Professional belt installation up to the test run
- Consultation and training on independent belt replacement



FOR A HEALTHIER, CLEANER, SAFER WORLD

The technical weavers for industry and architecture

As a privately owned technical weaving mill, **GKD – Gebr. Kufferath AG** is the global market leader for metal mesh, synthetic mesh, and spiral mesh solutions. Since 1925, the company has provided solutions for a large number of application areas in the fields of Architecture and Design, Industry and Filtration, Process Belts, and Process Equipment. In all of these sectors, GKD strives to make a key contribution to creating a **healthier, cleaner, and safer** world. With headquarters in Germany, five other production sites in the US, South Africa, China, and Chile, as well as branches in France, Spain, and representatives all over the world, GKD is never far from its customers or markets.

Further information: **gkd-group.com**

GKD – products and service **close to our customers, worldwide.**

01 GKD Germany Düren
02 GKD USA Cambridge (MD)
03 GKD USA Star City (AR)
04 GKD LatAm Santiago de Chile
05 GKD South Africa Johannesburg
06 GKD China Qufu

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GKD_Process belts for sludge dewatering and drying_Brochure_EN_08-24_Art.-Nr.: 600505105