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GKD at FILTECH 2019: Integrated filtration expertise

Process belt solutions for the environmental and mining industry

Pioneering mesh designs presented by leading international technical weavers GKD – Gebr. Kufferath AG (GKD) at FILTECH. Whether for water processing in large industrial plants or continuous vacuum belt filter systems in the environmental and mining industry: At the leading international trade fair for filtration and separation technology, GKD once again highlights its integrated solution competence for filter media and process belt solutions in Cologne. With its special mesh structure and seam technology, the VACUBELT® filter belt range guarantees efficiency and safety in exacting dewatering processes. In process water filtration with particles larger than 500 µm, the relatively new spiral fabrics produced by GKD are also in high demand. Alongside large-format mesh samples, the knowledge of process requirements that the filtration and process belt specialists have gathered over many years makes them sought-after contacts for discussing specific issues and solution models.

In view of the growing global demand for phosphorous, potash, and lithium, expanding extraction capacities and improving production efficiency are critical to the success of the global mining industry. This is where the different belt types of the VACUBELT® range, made of polyester monofilaments, are able to make a vital contribution. All VACUBELT® filter belts share the core characteristics of robust transverse stability, low crease formation, smooth surface, good cake discharge, and excellent cleaning behavior. What's more, their improved seam design contributes to greater process reliability. Its minimal opening at the seam means that the extremely



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flat PAD seam reduces particle penetration. GKD further decreases this seam opening by inserting filling threads, thereby further lowering the risk of particle penetration. These filler threads are supplied with the belt and inserted before the clamps are closed. This means that there is no need for the flaps required by other manufacturers. The advantages of the GKD seam design are clear: wipers are not stressed by partial raised sections and the seam itself is also subject to less wear.

For **dewatering of phosphogypsum**, GKD offers three thermally treated single-ply vacuum filter belts specifically designed for particular processes and applications in the form of the belt types VACUBELT[®] 3354, 3356, and 1003. With air permeability of 200 to 350 cfm and mesh apertures of 150 to 340 µm adapted to the respective plants, they guarantee constant high dewatering performance. As such, these belts in widths of up to 4.35 meters and lengths of up to 70 meters fulfill the highest service life and dewatering requirements.

In **potash fertilizer production**, the VACUBELT[®] 5060 filter belt has proven its worth many times over. With apertures of up to 470 µm and air permeability of 290 cfm, this belt type reliably withstands the high temperatures and corrosive conditions that are typical of this process.

The VACUBELT[®] 2015 filter belt has been the globally established standard in the field of **FGDP gypsum dewatering** for many years. The small aperture of 50 µm – coupled with air permeability of 55 cfm – justifies its superiority over conventional belts for dewatering the gypsum suspension produced during flue gas desulphurization. Faster dewatering, greater pore density, less tendency to clog, thermal resistance, and very good cleaning properties make the VACUBELT[®] 2015 belt type the vacuum filter belt of choice for both new systems and retrofitting existing power plants.



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The same belt type is currently also setting new standards in **lithium dewatering** in vacuum drum filters.

In **cooling lubricant filtration**, the robust VACUBELT® 3354 filter belt made of polyester wires is a proven alternative to the usual polypropylene products available on the market. This belt type reliably retains swarf and particles abraded from the grinding wheel without the addition of filtration aids, even with thin filter cakes.

In industrial laundries, the spiral fabrics that GKD produces entirely in house are becoming something of an insider tip for **process water treatment** with particles **larger than 500 µm**. Thanks to their unusually high performance, this product range, which made its debut at last year's FILTECH, is therefore also recommended for all other filtration processes requiring similar separation performance to washing water treatment in industrial laundries.

The process belt experts from GKD will be available at FILTECH for three days to answer application-specific questions concerning the broad range of filtration solutions.

You can find

GKD – Gebr. Kufferath AG at FILTECH

October 22-24, 2019

Kölnmesse

Hall 11.1

Stand G3

4.797 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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