



WEAVE**in Motion**

transport processing solution

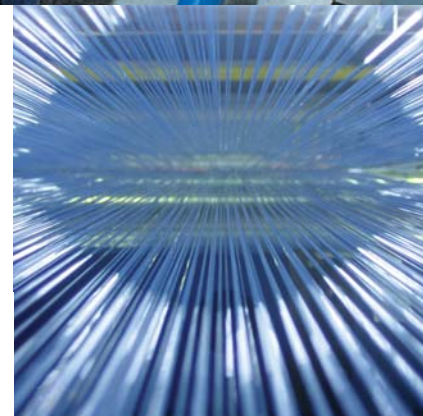
Process Belts for Belt Filters



WORLD WIDE WEAVE



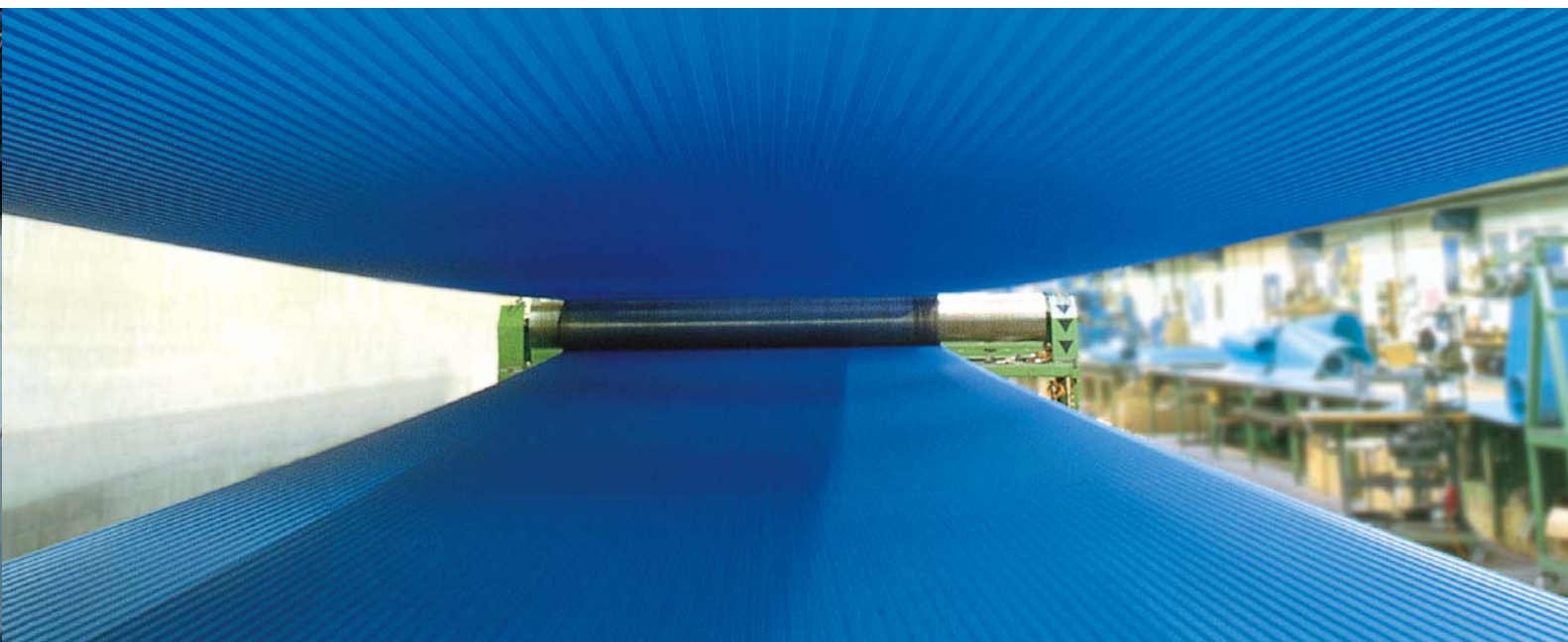
Loom for plastic woven belts with 7 meters working width



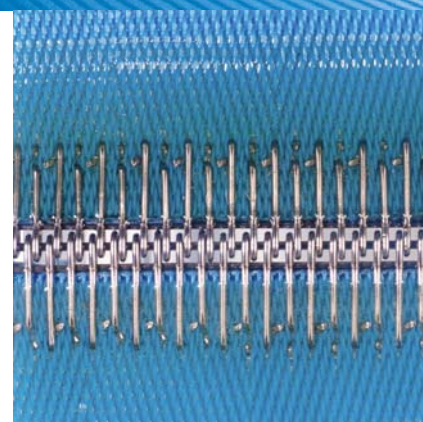
Warp beaming

The sum of our **competences:** **made-to-measure filter belts**

GKD's production facility for plastic and metal woven process meshes serves three core business sectors throughout the world: Filtration and Separation, Process Belt Technology and Architecture and Design. Specialized competences in the development of high-quality filter media are the basis for the production of high-performance filtration meshes. These are made by GKD from many sorts of weavable metals and plastics, such as stainless steel or stainless steel/synthetic combinations, PES, PA, PPS or PEEK, as well as blends of these materials. In the field of application for belt filters, these made-to-measure mesh constructions are put to a wide range of uses as endless belts.



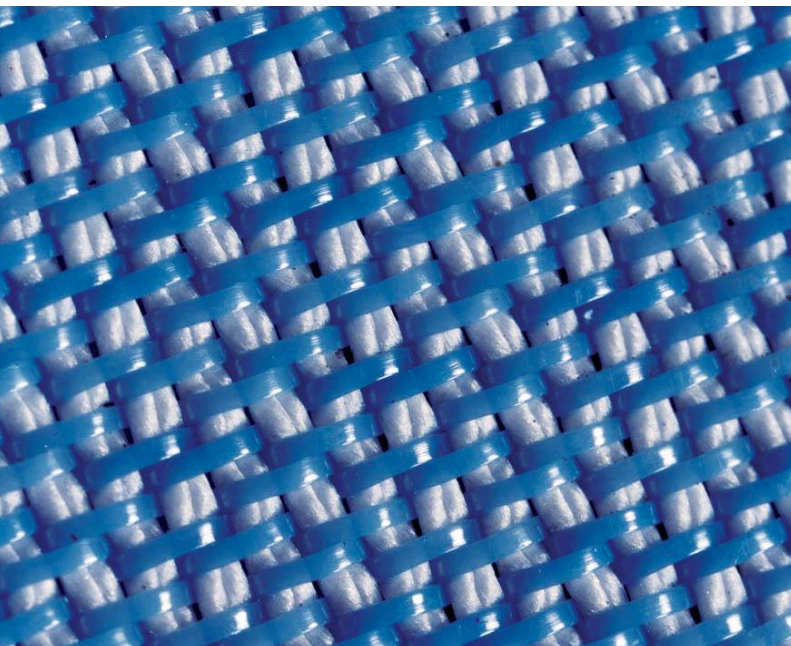
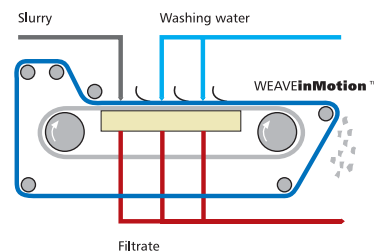
Heat setting unit



Pin seam

Tailored precisely to the specific application, our belts are customer-specific developments which ensure both the reliability and the efficiency of your processes. The meshes can be woven in sizes of up to seven meters wide and 120 meters long. Mesh apertures ranging from $20\text{ }\mu\text{m}$, for use in the fine filtration of abrasives and coolants, up to the Linear Screen with $3,000\text{ }\mu\text{m}$, for wet screening, ensure trouble-free production processes.

Vacuum belt filter plant

*Double-weave twill made of Polyester**Vacuum belt filter for FGDP gypsum*

Robust and high performance filtration in **FGDP gypsum** dewatering

GKD double-weave twill made of polyester with multifilament weft wires is a proven product for the dewatering of FGDP gypsum. The gypsum slurry which is formed in the lime scrubbing process during flue gas desulphurization in coal-fired power stations is mechanically dewatered on continuously operating vacuum belt filter plants. The sequence of this process, feed, washing and dewatering of the gypsum slurry on a single belt filter places enormous demands on the strength and efficiency of the filtration mesh used. These demands are fulfilled by the GKD mesh thanks to its excellent dewatering and filtration performance combined with its chemical resistance and mechanical strength.



Polyester mesh Type 3356

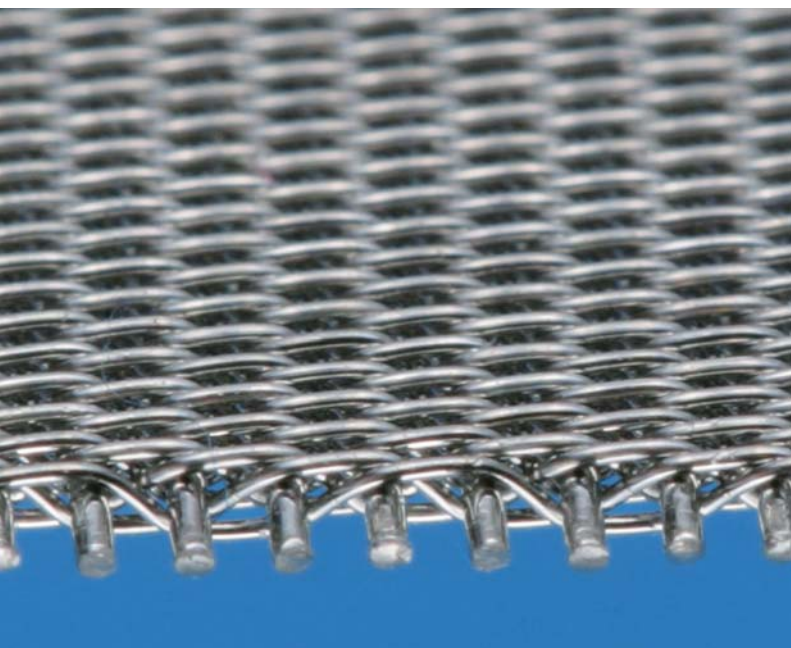
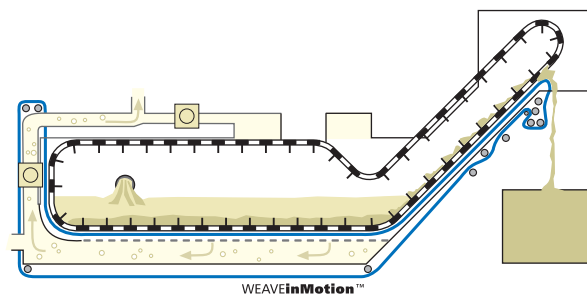
Purity testing

Polyester mesh for rock salt processing

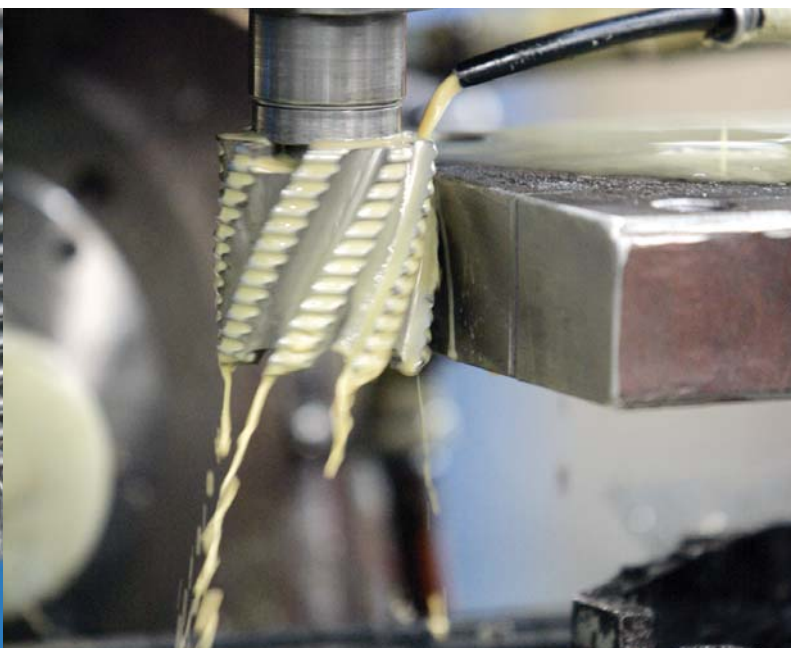
Cost-effective refining of **phosphoric acid** and **minerals**

In the production of phosphoric acid from raw phosphate and sulphuric acid, the key factor for cost-efficiency is the purity of the filtrate. The special structure of the polyester mesh Type 3356 qualifies it optimally for this process. Fine, chemical-resistant, robust and with a smooth surface, it guarantees long service life and good cake discharge and cleaning capabilities combined with optimal filtration rates. GKD filter belts are woven in widths of up to seven meters.

For the refining of rock salt, minerals or gold, the wire dimensions of the polyester mesh types 5060 and 8050 are precisely tuned to the specific process. As well as their chemical resistance, the mechanical strength and the dewatering and filtration performance of these meshes guarantee a successful process.

Vacuum belt filter for
solid/liquid separation

KPZ 55 stainless steel mesh

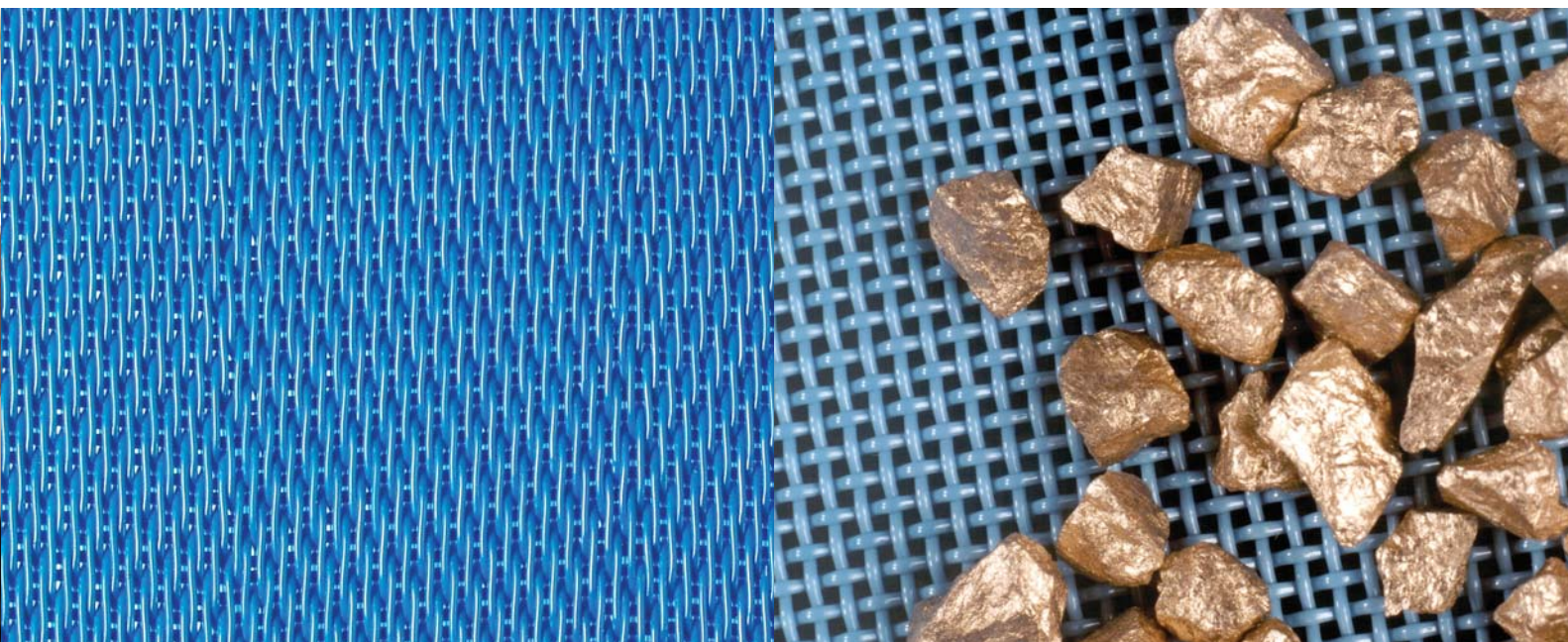
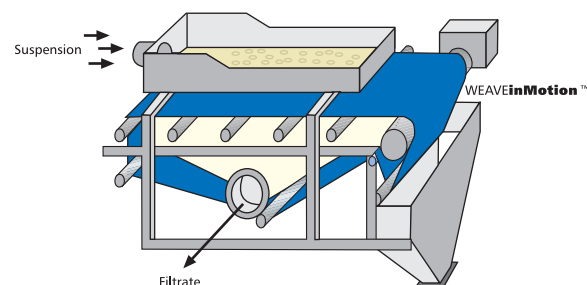


Machining under application of cooling lubricants

Reliable and sustainable filtration of **cooling lubricants**

Belt filters with continuous stainless steel woven belts made of twill dutch weave, or vacuum belt filter meshes of woven polyester of Type 3354 ensure consistently good filtration results. For this reason, they are the preferred choice of media in critical processes like the filtration of cooling lubricants, quenchants and coolants. This process mesh, with its fine apertures, in spite of its monofilament structure, achieves maximum retention rates even when there is only a small filter cake. In processes not using filter aid, filter grades of 30 μm , 55 μm or 100 μm are maintained.

Screening of solids



Polyester mesh Type 8060

Linear Screen for the processing of minerals

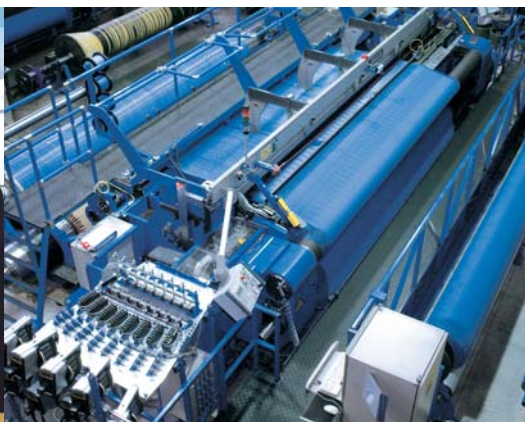
Efficient **coal washing** – precise **wet screening** in mines

To meet the demands of coal washing in vacuum belt filters, the polyester mesh Type 8060 is the ideal solution. Highly efficient and with the necessary filter rates, this mesh facilitates optimal washing and dewatering of the coal in various stages of production. The monofilament structure of the mesh combines mechanical stability, good washing capabilities and high filter performance.

For wet screening, for example in goldmines, the Linear Screen with its absolutely precise mesh openings is the optimal choice of filter media. Thanks to its process reliability, this mesh type is also the perfect choice for removal of coarse dirt or for washing fruits and vegetables. Available as polyester and as a blend of polyamide and polyester, GKD's Linear Screen meshes are a reliable all-rounder for these applications.



Customer advice on site



High-tech loom



Power station with flue gas cleaning

Dedicated to **service**

Taking the lead in research and development, and in consultation and conceptualization, WEAVE**inMotion**™ stands for competence and partnership from the very start. What you get are customized mesh solutions, process-optimized down to the last detail. GKD takes care of everything, from manufacturing the meshes on special looms to installation and maintenance, giving you the ultimate in sustainable production reliability. We are dedicated to providing complete service – at any time, if necessary around the clock, and anywhere in the world. Your advantage: longterm planning reliability through secure processes and consistently high quality.

GKD – USA, Inc.
825 Chesapeake Drive P.O. Box 315
Cambridge, MD 21613 U.S.A.
fon: +1-410-221 0542
fax: +1-410-221 0544
e-mail: sales@gkdusa.com
www.gkdmetalfabrics.com

GKD – Buismet (Pty.) Ltd.
Aureus Ext. 3, Cnr. Fiat and Chrysler Streets
RSA - 1759 Randfontein, South Africa
P.O. Box 6175 RSA - 1767 Greenhills, South Africa
fon: +27-11-412-47 70
fax: +27-11-412-48 23
e-mail: gkdrsa@gkd.co.za

GKD – Beijing Ind. Technologies Co., Ltd.
Hongfu Industry Garden, Bei Qi Jia Town,
Changping District, Beijing 102209 P.R. China
fon: +86-10 5165 9618
fax: +86-10 8178 6484
e-mail: gkd@gkd-china.com
www.gkd-china.com

GKD – UK Ltd.
Unit 14, By-Pass-Park Estate
Sherburn in Elmet LS25 6EP
Great Britain
fon: +44-1977-686410
fax: +44-1977-686411
e-mail: sales@gkd.uk.com

GKD – Gebr. Kufferath AG
Metallweberstraße 46
D - 52353 Düren Germany
fon: +49 (0) 2421-803-0 fax: +49 (0) 2421-803-182
e-mail: weaveinmotion@gkd.de www.weaveinmotion.de



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