



WORLD WIDE WEAVE

Process belt solutions for demanding nonwovens production

GKD: "We remove the causes, not just the symptoms."

Worldwide, nonwovens account for a steadily increasing share of the total market in textile sheet products. For 2016, the international industry association Edana expects a global production volume for nonwovens of 10 million tons. In 2014, 2.2 million tons of nonwovens were produced in Europe alone. The main driving forces behind this growth were the automotive, flooring, hygiene product and construction industries. A significant contributing factor to the efficiency and profitability of nonwovens production is the quality, construction and life cycle of the process belts deployed. As an internationally leading manufacturer of application-specifically customised high-performance process belts, GKD – GEBR. KUFFERATH AG and its products have been playing an integral role in industrial nonwovens production for decades now. At the TECHTEXTIL, the leading international trade fair for technical textiles and nonwovens, the GKD-WEAVE IN MOTION business unit will be presenting the complete range of its competence in consulting, product development and manufacturing for process belt solutions that are both effective and economical. "We remove the causes, not just the symptoms," is the motto of this internationally acclaimed solutions partner. At the trade fair in Frankfurt from 4 – 7 May, GKD therefore expects to welcome visitors with specific questions for the process belt experts, who look forward to having talks with them about new applications or options for optimisation.



WORLD WIDE WEAVE

As an expert for customised process belt solutions for demanding forming and thermobonding processes, GKD regularly sets new standards.

Engineering

Successful use of these solutions is guaranteed by the exceptional competence in consulting and engineering offered by these process belt specialists. Their comprehensive knowledge of working materials and industrial equipment and their decades of accumulated experience and know-how in industrial practice and process technologies qualify them to find solutions to specific problems that will lead to long-term improvements in processes and products. Their expertise in identifying faults and making precise adjustments to belt construction or configuration ensures that the customer's problems are permanently solved. In this way, GKD's individually configured high-performance process belts offer manifold optimisation potential, especially for challenging manufacturing processes. The application-specific belt configurations also include special edge treatments, like tracking profiles and welded or coated belt edges, that additionally enhance the functionality of the constructions.

Laydown belts

For efficient carding processes, the electrostatic conductive belts of the CONDUCTO® and CONDUCTIVE® product family are a well tried and tested solution. These polyester belts with bronze wires or graphite filaments in the warp reliably prevent electrostatic charging in compliance with ATEX Standard Class 3. Their smooth surfaces, excellent cross-stability and non-marking seams are additional advantageous features for the high-quality forming of nonwovens. Moreover, the low fibre penetration, uniform carded web formation, process-specific air permeability and reliable adhesion in the laydown zone they provide underline the efficiency of this belt type.



WORLD WIDE WEAVE

Dryer belts

Reliable control, non-wrinkle and excellent cross-stability even at high levels of melt fibre content with corresponding shrinkage of the product: with these characteristics, WEAVE IN MOTION dryer belts meet the core demands of thermobonding processes. The range also includes, for example, coated constructions that, in a two-belt dryer, ensure perfect bonding of nonwoven products with densities of up to 80 kilos under deployment of a bonding agent. With a special pressure-resistant lower belt that, thanks to a novel PFA coating, prevents adhesion of extremely sticky products, and a heavy, triple-warp upper belt, they guarantee high process reliability and efficiency. The highly expensive and time-consuming cleaning procedures that were previously unavoidable are now a thing of the past, since the product detaches itself trouble-free from the lower belt with its non-stick coating. Occasional bits of residual adhesive burst of their own accord or can be removed with a soft brush as easily as small fibres. The magnetic upper belt, made of Duofil mesh, a blend of PPS and steel, ensures precise calibration of thickness. Its particularly strong weave pattern in the running direction increases its resistance to the enormous forces that occur during the process. Both upper and lower belt have reinforced steel weft wires to fulfil the requirements for excellent cross-stability and robustness. For critical thermobonding processes, all these benefits add up to an unbeatable argument for the use of coated dryer belts made by WEAVE IN MOTION: Not only do they offer longer life cycles and increase the intervals between cleaning, but at the same time they also increase productivity.

ADL products

An established approach to drying spunlace ADL nonwovens is to use GKD's long-life two-layered PPS belt constructions running at speeds of up to 400 m/min. In ADL processes with chemical bonding, twilled weave stainless



WORLD WIDE WEAVE

steel mesh dryer belts facilitate effective brush cleaning thanks to their very smooth surfaces.

At the TECHTEXTIL, GKD will be offering its all-round competence in process belts. Plant engineers and operators will find experienced process belt experts with whom they can talk in detail about finding an effective solution to their individual problems.

GKD – GEBR. KUFFERATH at the
TECHTEXTIL in Frankfurt
4 - 7 May 2015 in

Hall 3.1, Stand E 78

5,790 characters incl. spaces

GKD – GEBR. KUFFERATH AG

The owner-run technical weaver GKD – GEBR. KUFFERATH AG is the global market leader for metal and plastic woven solutions. Under the umbrella of GKD – WORLD WIDE WEAVE the company combines four independent business units: SOLID WEAVE (industrial meshes), WEAVE IN MOTION (process belt meshes), CREATIVE WEAVE (architectural meshes) and COMPACT FILTRATION (compact filter systems). With its seven plants – including the headquarters in Germany and other facilities in the US, Great Britain, South Africa, China, India and Chile – as well as its branches in France, Spain, Dubai, Qatar and worldwide representatives, GKD is never far from its customers.



WORLD WIDE WEAVE

For more information:

GKD – GEBR. KUFFERATH AG
Metallweberstraße 46
D-52353 Düren
Tel.: +49 (0) 2421 / 803-0
Fax: +49 (0) 2421 / 803-233
E-mail: solidweave@gkd.de
www.gkd.de

Please send a reprint to:

impetus.PR
Ursula Herrling-Tusch
Charlottenburger Allee 27-29
D-52068 Aachen
Tel.: +49 (0) 241 / 189 25-10
Fax: +49 (0) 241 / 189 25-29
E-mail: herrling-tusch@impetus-pr.de