



Brückner presents the latest high-tech technologies

In the market of textiles and technical textiles Brückner stands for high-quality, tailor-made finishing systems "Made in Germany". In the last years Brückner invested systematically to optimize the energy efficiency and productivity of their lines and the impressive results will be presented this year on ITMA ASIA in hall W5, booth D12.

Energy saving systems

The efficient use of natural resources and sustainability are issues the textile industry has to face, too. The technologically mature products of the Brückner group comprise also heat recovery systems (ECO-HEAT) and exhaust air cleaning systems (ECO-AIR). The purpose of the ECO-HEAT product family is first of all to save energy.



Save hard cash with Brückner energy saving systems.

To achieve this target, the energy potential of the polluted exhaust air is used to heat fresh air and/or fresh water via heat exchangers. Depending on the process it is possible to save up to 35% of the energy and thus the production costs are significantly reduced. According to the experiences the investment costs pay back within very short time.

The ECO-AIR product spectrum comprises electrostatic precipitators, scrubber systems and spray condensers, which can be combined with each other depending on the requirements. Brückner offers for this field a wide range of services such as reviewing the exhaust air situation, establishing a functional specification or analyzing the energy potential.

The latest stenter generation

The latest POWER-FRAME stenter generation has been developed with innovative ideas by the best technologists. The stenter meets the highest performance and quality requirements with a minimum of energy consumption. The investment in a Brückner POWER-FRAME stenter brings many benefits such as:

- ❖ the best drying performance due to the patented SPLIT-FLOW air circulation system.
- ❖ absolutely homogeneous air flow and temperature distribution.
- ❖ extremely robust chains, chain rails, pin bar carriers and clips, needing only little maintenance.

- ❖ exactly reproducible finishing results because of complete automation and recipe administration in the line.

Optimized solutions for the finishing of woven fabric

The Brückner POWER-SHRINK compressive shrinking unit is the ideal solution for the finishing of woven fabric and denim. It comprises complete modules which can be tuned particularly to the customer's requirements. POWER-SHRINK allows to achieve the best residual shrinkage due to the high-tech drive concept with traction measuring rollers; continuously constant shrinking values can be achieved thanks to the technologically sophisticated automatic shrinkage control system. A production output increase by 20-40% results from the Optimized geometric conditions at the rubber belt unit.



Brückner POWER-SHRINK provides for optimum results with maximum production speed.

Dyeing in continuous operation

The requirements for the dyeing processes with Pad-Dry / Thermosol lines are increasing, Brückner allows for these requirements with their latest generation of continuous dyeing lines. The target regarding the quality is a homogeneous, reproducible and migration-free dyeing of flat fabric over the length and the width for short and for long batches. The Brückner POWER-COLORTHERM hotflue dryer stands for an absolutely symmetrical large-volume air circulation system that provides for uniform dyeing. The large roller diameter and the flexible individual drives of all upper rollers ensure a crease-free, low-tension fabric passage. The POWER-INFRATHERM infrared dryer stands for maximum productivity and reproducibility. Thanks to the trapezoid shape and staggered arrangement of the burner elements the formation of stripes is prevented and a perfect overlapping of the radiation over the complete width is guaranteed.



POWER-COLORTHERM / INFRATHERM Pad-Dry / Thermosol lines ensure an optimum dyeing and a crease-free fabric passage.

Innovative technologies for the non-wovens industry

Brückner's range of products in the field of bonding and finishing of geo-nonwovens as well as nonwovens for the filtration of liquid or gaseous media, pyrotechnical and paramilitary protection clothes, compound materials in the automotive sector, nonwovens used in the hygienic or the medical sector, fulfils the highest requirements.

The POWER-THERM DT double-belt oven for nonwovens is characterized by its very high flexibility regarding the range of application requiring at the same time a minimum of energy and very short preparation times. Measurements confirm energy savings of up to one third and two-digit productivity increases compared to other systems. In addition, the customers are very satisfied with the low susceptibility to fouling and the very good accessibility.

Finishing lines for coatings

Brückner does not only supply coating units, that can be used in a great variety of applications and dryers which are tailor-made for the specific purpose, but also offers consulting and technological competency. For the production of canvas or the finishing of parachute silk, for sailing cloth, sun shades, work protections, black-out or airbags - Brückner is a competent and appropriate partner. This adds to their experiences in the finishing of knitted fabric and nonwovens, which can be functionalized effectively and with low costs now on one of the Brückner lines: be it for sports wear, geotextiles or other technical textiles. The customers are advised to discuss with Bruckner or its representative Nazer & Company, the possibilities to modify also old systems for coating applications. ♦