Saurer TechnoCorder TC2 Discover new possibilities



Saurer TechnoCorder TC2 to open up new markets for industrial yarns

Technical yarns are used in a very wide range of applications in everyday life. Industrial textiles, geotextiles and packaging textiles are just a few examples. As versatile as the range of applications is, the demands on the production technology with which technical yarns are manufactured are equally high.

Not visible from the outside or visible only at second glance, a number of technical yarns are "hidden" in many products. Their task is, among other things, to absorb loads at a more or less precisely defined elongation. The desired elongation behaviour does not result from the textile material alone. The yarn construction, i.e. its structure combined with it twists, also has a very decisive influence on the material properties.

Not visible, for example, because they are hidden in the steering wheel, the dashboard and the door trim, but in the event of an accident the airbags are of the utmost importance, not to say life-saving. Today, they are part of the standard equipment of every car. The starting point for producing airbags is very often yarn made of polyamide or polyester. These yarns must first be given a few twists to smoothly weave into a textile fabric.

This is done using sophisticated technology on the Saurer TechnoCorder TC2, a high-performance machine for the twisting of single and multiple yarns from a multitude of supply materials in a very wide range of yarn counts. The TechnoCorder TC2 is characterised above all by its unique flexibility in production, material and counts. Thanks to the autonomously driven spindles, individual production can be run on each spindle, and with the innovative FlexiPly software, even the hybrid constructions expected by the market can be produced economically on the TechnoCorder TC2.

The use of different materials such as PA and aramid as well as different twists make it possible to produce twists with new properties for technical textiles, tires and mechanical rubber goods (MRG). Customers get additional material flexibility by equipping the machine for processing PE/PP tapes and monofilaments. Unwinding caps are available for multi-ply constructions which guarantee a precise unwinding of

the supply packages. A delivery speed of 400 m/min is world class in the twisting of industrial yarns and thus secures Saurer the pole position in global competition.

With two spindle gauges 670 and 830 mm as standard equipment, the count range from 235 to 33.000 dtex is enormously extended and high-quality yarns from very fine to very coarse can be produced. In addition, yarn constructions of up to 60.000 dtex can be processed with the special equipment thanks to the reworked spindle with combined spindle pot and balloon limiter ring with the 830 gauge. This means that even coarse articles can be produced economically and flexibly in high quality.

Process monitoring, optimum yarn path geometry and gentle, low-tension thread guidance additionally ensure high quality. Thus, the TechnoCorder TC2 is a guarantor for excellent yarn quality, twist packages with higher density and perfect optics. In order to achieve a considerable increase in productivity despite the toughest quality demands, the unwinding speed can be increased up to 260 m/min when using a campanello.

Thanks to energy-optimised drives and a slim thread balloon, the energy balance of the machine has been improved. The innovative spindle concept and the ergonomic arrangement of the main components ensure a particularly high level of operating comfort. With ever new developments, we at Saurer offer an innovative and economical means of production for custom-fit customer solutions in the dynamic market of technical textiles.

This was the decisive factor for a major customer based in America to opt for a Saurer TechnoCorder TC2. This customer is a global leader in the development and production of industrial yarns and threads that meet industrial requirements. As a supplier of industrial yarns with the aim of developing intelligent and adaptable solutions, it was clear to our customer that they needed, above all, a versatile twisting machine. This had to be able to adapt to the requirements of customers from an incredibly wide range of industries.

Finally, the TechnoCorder TC2 has helped our customer to do what they have always strived for. Their focus is not only on developing high quality industrial yarns, but also on offering more than just a set range of products, which remains their top priority as a service-oriented company.

The flexibility of the TechnoCorder TC2 increases their capacity and ability to offer the highest quality innovative solutions in the industry and meet their customers' yarn processing and construction challenges.

In order to meet these demands and our customers worldwide at all times, we at Saurer are constantly working on bringing innovative and creative ideas to the market. This is why the further development of the TC2 stands for three decisive innovations and offers Saurer customers even more significant competitive advantages:

PreciWinding (TC2 Plus): just put more on it.

With the newly developed winding from Saurer, twist packages with precision winding can now also be produced in an excellent quality. The packages convince with their compact shape, high density and an exact edge structure, which brings better unwinding behaviour. The reduced handling effort and the resulting increased productivity are clearly noticeable for Saurer's customers. In addition, transport costs

can be reduced by increasing the density of the packages. This is an economic advantage, especially in the current situation.

Running smoothly with the new oiling device from Saurer

The responsible use of resources is also of particular importance for Saurer's customers. When recycling big bags, for example, unmixed materials are required with regard to the sewing yarn. Saurer offers an oiling device directly after the twisting process for the finishing of twisted PP yarn. This new option sustainably increases the benefits for Saurer customers.

Highest quality is indispensable

The highest demands are rightly placed on technical textiles, because they must be extremely resilient and guarantee the highest safety. The online monitoring of quality parameters with our newly developed quality sensor reliably produces the required quality.

If you too would like to take the next step towards a future-oriented way of working and create the basis for successful textile production, we would be pleased to inform you personally about the many advantages of the TechnoCorder.