



Textile Research Institute in Germany equipped with Stäubli UNIVAL 100 Jacquard machine

Stäubli is a mechatronics solution provider with three dedicated divisions: Textile Machinery, Connectors and Robotics. With a workforce of over 3000, the company generates annual turnover exceeding 1 billion Swiss francs. Founded in 1892, Stäubli today is an international group with its head office in Pfäffikon, Switzerland. Stäubli is active on all 5 continents and oversees 14 industrial production sites including the companies Multi-Contact and Schönherr, the Stäubli Group is present in 25 countries through its sales and customer service subsidiaries. The network is completed by agents in 50 countries. Simag is the local representative for Pakistan for Textile Machinery business. Stäubli Textile has been developing and producing high-quality systems for the weaving industry for over a century. The company holds a strong market position in textile machinery, a position earned through continual pursuit of customer satisfaction.

Research and development of high-tech textiles is one of the main research activities of the Textile Research Institute Thüringen-Vogtland, TITV, in Greiz, Germany.

The production of advanced textile fabrics, for example for the medical industry, technical applications, smart textiles, and multi-layer textiles, has little to do with the mainstream textile and apparel weaving industries and requires new manufacturing methods.

That's why the TITV recently commissioned a new weaving system consisting of a **Dornier rapier weaving machine** and a **Stäubli UNIVAL 100 Jacquard machine**. The UNIVAL 100 is the world's first and only Jacquard machine that features individual motorized control of each warp thread. The UNIVAL 100 at the TITV is configured with 6144 motors, so called "Jactuators", and moves the same number of warp threads by means of a Jacquard harness.

This weaving system leaves no wish open regarding technical weaving possibilities, especially in influencing the shed geometry. Shedding parameters such as shed opening profile, shed symmetry close of shed, variability, and the height of the stop point can be individually optimized for each article and are reproducible at any time.



Stäubli UNIVAL 100 Jacquard machine for sophisticated fabrics of the highest quality.

As a result, there remains hardly any limit to textile development, whether special weave structures or the application of new and special materials. Thanks to the high flexibility provided by the UNIVAL 100, weaving parameters can be experimentally studied at will and new textile constructions brought to the market. ♦

Huntsman Textile Effects flagship reactive dye ranges for continuous and cold pad-batch applications

NOVACRON®, the innovative and dynamic range of reactive dyes from Huntsman Textile Effects responds to today's market needs by providing the perfect products for the ideal management of pale, medium and deep shades to help optimize mill productivity and profitability.

The industry's needs are vast, and color demands so varied that no single range can cover all the expectations. Fulfilling the requirements of all shade depths demands a selection of appropriate technologies for each differentiated color segment in order to optimize production costs. Although no single technology can provide that capability, NOVACRON® can!

Huntsman Textile Effects presents three Novacron® ranges, each of which is designed to meet a specific shade segment.

- ❖ Earth tones made easy with Novacron® NC – a revolutionary state-of-the-art range in its ability to deliver pale to light shades.
- ❖ For premium performance at medium depths, Novacron® C – setting historical benchmarks whilst being constantly upgraded.
- ❖ Going to unprecedented color depths, the recently launched new generation Novacron®S – a singular innovation class with incomparable opportunities for economically matching ultimate deep shades.

NOVACRON® dyes exemplify Huntsman's textile competence and innovative spirit by consistently delivering only the highest quality products using Best Available Technology. All Huntsman's innovation is designed to support their customers in their struggle to optimize production costs and minimize waste.

The three Novacron® ranges cover all the market's color requirements, each individually matching a shade segment need. Not least, NOVACRON® also represents a step forward in economy and sustainability. These cost effective concentrated dyes excel through their top reproducibility, easy washing-off properties and good overall fastness levels.

NOVACRON® is a registered trademark of Huntsman Corporation or an affiliate thereof in one or more, but not all countries.

