



# Stäubli future-oriented innovations

## Innovative weaving technology for future applications

Stäubli has been one of the world's leading manufacturers of high-speed textile machinery since more than a century. After decades of experience as a supplier of shedding solutions for weaving machines, weaving preparation systems, and carpet weaving systems in the traditional textile industry, Stäubli continued its efforts in research and development to extend its product range. For several years already the company is in a position to offer textile machinery dedicated to the production of technical textiles. Weavers who count on Stäubli high-performance machinery benefit from features like high reliability and flexibility will be able to take the lead on the market of technical textiles with innovative and creative products for countless applications.

A selection of technical fabrics including spacers and multi-layers with variable thickness that have been produced in conjunction with Stäubli products such as TF weaving systems, dobbies, Jacquard machines, warp drawing-in, or tying equipment were displayed at Techtextil in Frankfurt.

### Magma T12 warp tying machine

For technical yarn ties monofilaments, coarse multi-filaments, PP ribbons, bast fibres, coarse staple fibres, and many other fibre types. The Magma T12 has

MAGMA T12 warp tying machine.



been developed for universal application ranging from coarse technical yarns to medium yarn-count range. Its rigid design includes an optical double-end detection system.

MAGMA was demonstrated at the booth tying monofilament, diameter 0.40mm, density 7 threads/cm, 4 canister, 140 threads each.

### UNIVAL 100

This single-end control Jacquard machine offers more benefits for sophisticated technical textiles such as automotive and aeronautic textiles, technical textiles in the sports, industrial, medical sectors, and new fabric constructions, even with glass fibre, carbon, and Kevlar.

The information regarding UNIVAL applications was provided during the fair. The new TF weaving system provides individual system configuration and maximum flexibility. This system offers virtually unlimited weaving possibilities, whether for flat, spacer, or complex



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multi-layer fabrics and 3D fabrics. Featuring latest shedding machines in combination with the double-rapier weft insertion system and a special slaying motion this system allows high-volume production of up to very thick and/or dense fabrics and efficient processing of a wide variety of technical and highly sensitive yarns. This weaving system is available featuring various machinery combinations and set-ups for weaving any application and desired technical fabric.

With its Schönherr carpet systems branch, Stäubli also highlighted ALPHA 500 LEANTEC weaving system allowing the production of superior high-quality synthetic grass and greige material for printing. ♦



TF weaving system (configuration example).