



Stäubli's latest weaving technologies offers new production solutions



The latest weaving technologies offer new production solutions for challenging applications in the automotive, medical, industrial, safety, and other sectors.

Weavers worldwide seek to optimize their production processes. Stäubli's weaving-preparation machinery supports them in this with automation solutions for efficient warp and style changes. Stäubli's wide range includes machinery specifically developed for technical applications, e.g. the MAGMA warp-tying machine for coarse yarns and tapes or the SAFIR S30 warp drawing-in machine, which prepares perfectly aligned glass-fiber or filament warps.

If the textile surface is a woven fabric, Stäubli plays an important role in the design and quality of the end product, thanks to its core competencies in shedding (dobby and Jacquard machines) and weaving preparation (drawing-in and warp-tying machines). Based on over a century of experience in the traditional textile industry and its continuous R&D

activities, Stäubli constantly offers new and improved high-performance systems and solutions for processing technical textiles and other fabrics – equipment that can be individually adapted to the needs of the weaving mill. The machinery described below represents a selection from Stäubli's broad range for technical textiles:

Magma T12 – the warp-tying solution for technical yarns

This tying machine processes monofilaments, coarse multifilaments, PP tapes, bast fibres, coarse staple fibres and many other yarn types.

LXL/LXXL Jacquard machines for producing complex OPW (one-piece woven) airbags

These machines feature lifting motions that ensure precise shedding geometry and absolutely vibration-free movement even at high speeds. The optimally coordinated kinematics of all moving parts within the machine and the

directly mounted components such as the drives enable routine weaving of very heavy fabrics. The shed opening is optimised and loads on the warp threads during weft insertion are reduced. The robust construction and uncompromising use of high-quality materials guarantee the reliability and longevity of every machine.

TF20 weaving system for complex multi-layer fabrics

Individually configurable, this system allows the production of flat and spacer fabrics, complex and very thick and/or dense multi-layer fabrics, as well with material mix, and 3D textiles.

ALPHA 500 LEANTEC for manufacturing high-quality artificial turf

This specific weaving system of the Schönherr Carpet Systems product line enables the economical production of high-quality synthetic turf and greige woven carpets. ♦