Weaving the Future: Stäubli's Textile Innovations at Techtextil 2024

At Techtextil 2024, Stäubli stands as a beacon of innovation, reshaping the textile industry's future with its advanced solutions for weaving and warp preparation. Positioned under the Swissmem pavilion at Stand B01/Hall 12, Stäubli's showcase is a testament to its commitment to energy efficiency, waste reduction, and the production of first-quality textiles. These advancements enable the creation of technical fabrics that significantly impact various sectors, including medicine, transportation, and aerospace, enhancing daily life across the globe.



SAFIR S60 automatic drawing-in machine –
zoom on machine without drawing-in truck Featuring
Active Warp Control 2.0 technology

Stäubli's dedication to creating machines that weave fabrics essential for global innovation is evident in its new TF30 weaving system, designed for 3D weaving. This groundbreaking solution offers unmatched flexibility in shed programming and weave structure, catering to the aerospace, medical technology, marine, and automotive industries' specific demands. The TF30's gentle yarn treatment capability ensures the safe handling of sensitive materials like carbon, aramid, and ceramic yarns, paving the way for weaving mills to explore new market opportunities.

Technical fabrics, such as airbags, lightweight carpets, and specialized filters, rely on Stäubli's robust machinery. From heavy dobbies capable of withstanding intense vibrations to the LXL PRO Jacquard machine designed for one-piece woven airbags, Stäubli's technologies are at the forefront of textile innovation. The ALPHA 500 LEANTEC weaving system, in particular, excels in producing lightweight carpets with extremely uniform and precise loops, meeting the transportation sector's stringent requirements.



LXL PRO electronic Jacquard machine
suitable for OPW airbag weaving
Available in 4 formats, and up to 14,336 hooks

Stäubli, a global leader in industrial and mechatronic solutions, continues to empower the weaving industry with its comprehensive range of solutions for producing flat to 3D technical fabrics. As Stäubli gears up for Techtextil, the textile community eagerly anticipates the unveiling of technologies that will drive the industry towards a more innovative and sustainable future.