

ITEMA Weaving: High performance weaving machinery for high-performance textiles

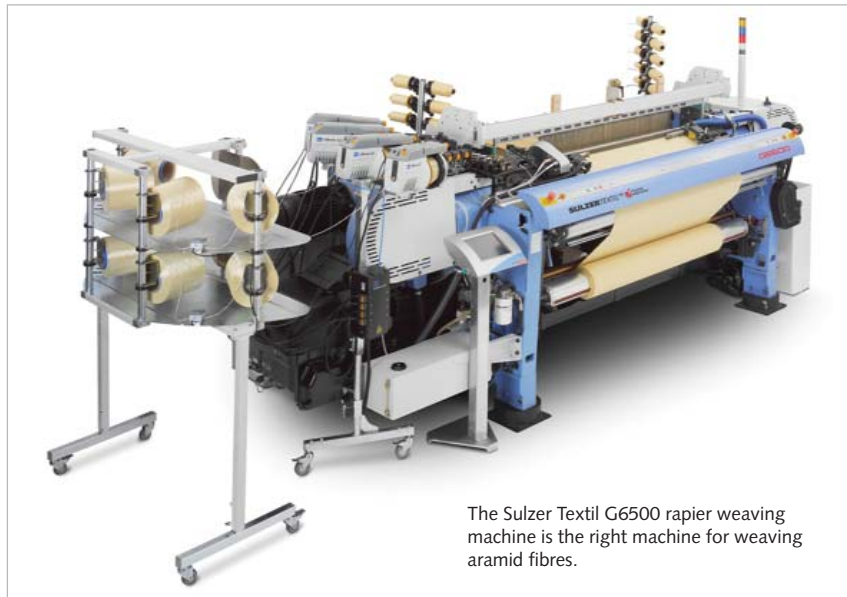
ITEMA Weaving with its globally renowned brand for technical textiles - Sulzer Textil - presented at Techtexsil, its latest weaving machine developments and innovative upgrading options for highly demanding fabric applications.

Market know-how, innovative solutions and the right weaving technology

The technology brand Sulzer Textil has been successfully used in fields of technical and industrial weaving applications for decades. More than 30% of installed machines occupy most demanding niche segments, be it for widest, heaviest, densest or very loose fabric constructions made from any kind of yarn. The Sulzer Textil brand covers weft insertion systems from Rapier (G6500), Air-jet (L5500) to Projectile (P7300HP V8) as well as Customized Weaving Technology (CWT) for specific needs in areas of complex fabric forming.

Big demand for high quality advice

If there was a clear trend to be seen at this year's Techtexsil, it was the evident need for technical advice and support required by participants. Weavers were looking for new application fields and upgrading opportunities of existing weaving machines to cover new segments. As such, the Techtexsil offered a great number of high-standing discussions and deliberations with our existing customer base or prospective newcomers to the ITEMMA Weaving family.



The Sulzer Textil G6500 rapier weaving machine is the right machine for weaving aramid fibres.

In demand – weaving aramid fibres on Sulzer Textil G6500

Aramid fibres are used for protecting lives and therefore must be processed by high quality machinery with most advanced technology.

The rapier weaving machine Sulzer Textil G6500 is best suited to weave 0-twist multi-filament yarn since the rapier tapes are unguided thus freely flying through the shed. There are no guide

hooks or any other elements in the shed to interfere with the warp. Small and effective rapier heads running close to the weaving reed make sure that there is only a small shed opening needed thus guaranteeing a very low yarn load & tension.

This results in top quality fabrics (broken filaments are less of a topic), an optimum fabric cover, less shrinkage and increased yield (m² of fabric). The G6500 offers special waste saving opportunities in warp and weft at highest insertion speeds of more than 650 rpm on a 190 cm wide machine.

Wide-width weaving – up to 6.55 m, upgrading on Sulzer Textil P7300 HP

Flat multi-filament weft yarns (mostly 0-twist) for e.g. very wide coating fabrics create daily challenges in fabric forming. Highest quality requirements, coupled with the need for productivity, ask for dedicated solutions to carefully insertion delicate yarns.

ITEMMA Weaving provides the answer on Sulzer Textil Projectile weaving machines P7300 HP with a new weft tensioning device. The thread guiding eyelet has been positioned sideways thus preventing the tensioning lever from touching the weft yarn during insertion.

New cams for the tensioning unit accelerate much faster during the upward movement thus resulting in a straight insertion line with less strain and deflection on the weft yarn.

The peak tension during insertion is reduced to about 50% of the old tensioning and insertion system on Projectile weaving machines.

This improvement makes it very hard for wide air-jet or rapier weaving machines beyond 4m to compete with the most suitable projectile weaving machine for demanding applications. ♦



New weft Tensioner "fast yarn release" for Sulzer Textil P7300HP projectile weaving machine. The new system releases the weft yarn much earlier and prevents any contact with the weft yarn other than the eyelet it self. This results in a straight insertion line with less strain and deflection on the yarn. The peak tension is reduced to about 50% of the old system.