

## Talking technical textiles with Monforts in Atlanta



**A recent MontexCoat installation for the production of technical textiles.**

**The full potential of advanced coating and finishing technologies for the production of technical textiles will be outlined by Monforts specialists at Techtexil North America which takes place in Atlanta, Georgia, from May 6-8.**

The company and its US representative PSP Marketing, of Charlotte, North Carolina, will be part of the extensive VDMA German Pavilion at the show, at stand 3231 within the Georgia World Congress Center.

A wide range of technical fabrics is now being successfully created with MontexCoat coating units in combination with Montex stenters, including tents, tarpaulins and awnings, black-out roller blinds and sail cloth, automotive interior fabrics and medical disposables.

Full PVC coatings, pigment dyeing or minimal

application surface and low penetration treatments can all be carried out with the extremely versatile system. Solvent coatings in explosion-proof conditions, knife coating, roller coating and screen printing are further options and the MontexCoat has been engineered to enable users to switch quickly from one fabric run to the next without compromising on the economical use of energy or raw materials.

“There has already been terrific interest in the MontexCoat and the range of different techniques it enables and we're far from exhausting its potential uses,” says Achim Gesser, Monforts Area Sales Manager who will be at the show in Atlanta. “For companies who don't need such flexibility, the economical coaTTex unit is exclusively dedicated to air knife and knife-over-roller coating.

## TECHNOLOGY



### Monforts North America Area Sales Manager Achim Gesser.

“At our ATC in Mönchengladbach, Germany, however, a MontexCoat unit has been integrated into a full Montex technical textiles pilot line, on which our customers can run trials of new fabrics and finishing formulations in widths of up to 1.8 metres. This line has been engineered to provide the ultimate in precision coating and finishing in industrial-scale trials.”

To fully demonstrate what's possible, the Montex line at the ATC is able to treat materials not only at temperatures of up to 320°C, but apply separate coatings on the two sides of certain materials at different temperatures, within a single pass through the machine. To achieve this, the first two chambers of the stenter are fitted with TwinTherm burners for individual top/bottom heating. A temperature differential of up to 60°C can be achieved between the upper and lower nozzles within the chamber, depending on the treatment parameters.

“There are many applications where employing two separate temperature treatments is beneficial, such as floorcoverings – where the textile face fabric is treated at one temperature and the rubber backing at another – as well as PVC flooring employing chemical foams, black-out roller blinds with heavy backings or PTFE-coated filter materials,” Gesser explains.

Another key feature of the technical textiles line at the ATC is the Montex stenter's special stretching device which is capable of pulling ten tons in length and ten tons in width – a huge amount per square metre of fabric and necessary in the

production of materials such as woven or 3D knits for high temperature filter media.

Monforts also offers the special T-max grease-free stenter chain for high temperature treatments up to 320°C, at machine speeds up to 100m/min and transverse tension up to 2,500 N/m with the benefits of no maintenance and no grease marks on fabric.

“Technical textiles are extremely diverse in their end-use applications but the needs of the manufacturers of very different materials are still uniform in many respects,” says Gesser. “European-built Montex stenters provide maximum finishing efficiency and many of our customers are operating them 24 hours a day over seamless shifts.”

Existing customers include manufacturers in the fields of home textiles, geotextiles and automotive fabrics, as well as functional materials and dedicated Montex lines have also been supplied to producers of airbags, flame retardant barrier fabrics and spacer fabrics.

“Techtextil North America is a very important show for us because technical textiles are a key pillar of our production programme,” Gesser concludes. “North America is one of our major markets and we are looking forward to reconnecting with existing and potentially new customers at this always-vibrant show.”