



IDEA[®]16 NEWS BOSTON

The World's Preeminent Event for
Nonwovens & Engineered Fabrics



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Our purpose is to make nonwovens continuously better for people. We tailor our nonwoven materials to your precise requirements. Result: a range of materials that meets every demand for excellence in Convenience and Care.

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From Herrmann Ultrasonics: Advanced 2000 feet/min lab calender

In response to customer requests for higher speeds, Herrmann Ultrasonics has increased the speed capabilities of its high-speed ultrasonic laboratory calender (ULC 500), now aptly named the ULC 600+. This latest advancement to the modern lab calender makes it feasible to run faster than 600 metres/min (2,000 feet per minute).

"Industry players come to the Herrmann Ultrasonics' NONWOVEN Lab for material evaluation, feasibility tests, and process and product development. We show how ultrasonic technology can be incorporated into their existing production environment. We work with well-known machine builders and manufacturers on nonwoven applications," says executive VP and general manager Uwe Peregi. "And with our faster lab calender our team of experts is now better equipped to develop process solutions."

Herrmann Ultrasonics will be promoting the ULC 600+ technologies during IDEA16. A UBM module for backsheet lamination will be on-hand, displaying the capabilities and ease of integration into new and existing production lines. The UBM module will be made available

to interested parties looking to verify the ultrasonic process in their facility.

Ultrasonic vibrations can replace hot melt and thermal calender applications in the hygiene and filter industry. Longitudinal seams, cross seams and laminations are successful ultrasonic applications including bonding modern materials like foamed material and carbon fibres. Ultrasonic welding is energy-efficient and offers fast cycle times without any consumables. A sophisticated control system within the ultrasonic module copes with varying material thickness and enables reproducible runs. The process becomes clean and manageable.

Teaming up with Dow for ultrasonically laminated cloth-like backsheet

A four-year collaboration between The Dow Chemical Company and Herrmann Ultrasonics resulted in a special weldable ultrasonic material. It is designed for sustainable and functional innovation, in the form of polyethylene (PE) based film formulations and

bonding patterns that enable lamination to polypropylene (PP) nonwovens.

The material is commonly used in baby diaper and adult incontinence textile backsheet applications. Understanding the bonding mechanism and the role of the polymer design in delivering the appropriate rheological and thermal resistance properties, Dow has developed improved film formulations to meet market needs for:

- Comfort and body fit: softness and drape-ability
- Consumer assurance: reduced tendency for pinholes and leakage
- Discreteness: low noise

Dow's improved PE film formulation in combination with Herrmann Ultrasonics' VE MICROBOND CSI technology provides innovative 'Adhesive Free In-Line Lamination', which delivers softness and low noise. With increased web speeds up to 2,000 feet per minute, immediate bond strength, quality assurance and high-speed lamination of multiple layers is achieved.

Combining Dow's end-use application understanding and knowledge of material science fundamentals with Herrmann's equipment expertise and extensive laboratory capabilities has enabled innovative solutions for converters and brand owners. "Collaboration continues to play a critical role in accelerating new technology adoption in the market," says Jackie deGroot, Global Health & Hygiene Technical Fellow from Dow. To learn more about the use and benefits of Herrmann Ultrasonics technologies, visit its IDEA16 Booth 1621 for a demonstration and discussion on how Herrmann Ultrasonics can improve your production efficiency and reduce your manufacturing costs.



Herrmann Ultrasonics' high speed laboratory calender ULC600+

Avgol to showcase new nonwovens innovations

Avgol, a global leader in the manufacture of nonwoven fabric solutions, will be showcasing its innovative range of products for the hygiene market at IDEA16, on Booth 1206.

Visitors to the booth will be able to see Avgol's new range of nonwoven fabrics for the baby diaper, adult incontinence and feminine hygiene sectors, which have been designed with softness, skin care and fluid management in mind.

Shane Vincent, VP global sales at Avgol, said: "We have developed a comprehensive range of ultra-lightweight spunmelt nonwoven fabrics that are suitable for a variety of applications, and reflect our passion for delivering quality products that contribute positively to the life and wellbeing of millions of babies, mothers and senior citizens around the world.

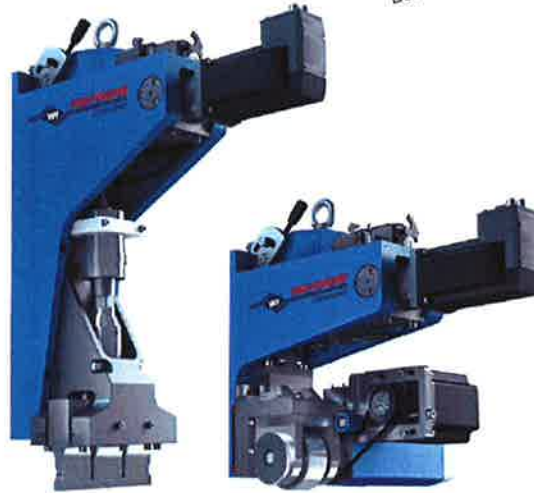
"Exhibiting at IDEA16 provides us with a great opportunity to meet our new and existing customers face to face to find out more about the challenges they are faced with in the sector. Events like this are the perfect way to engage and ensure that we are developing solutions that respond to market and consumer needs to give us that competitive edge."

Spunmelt leader

Avgol supplies manufacturers and brands in 25 countries worldwide from its manufacturing sites in Israel, US, China and Russia. Its fabric designs incorporate hydro-entanglement and bi-component technologies to deliver high performing, soft-touch products.

It is a leading vendor in the wipes market, supplying fabrics to the leading users of spunmelt materials in Europe, the Middle East, and Africa. Its production plant in Israel boasts a total capacity of 33,000 tons.

Last year, spunmelt technology was the most widely used manufacturing process for nonwoven fabrics, in terms of both volume and value. In 2016, spunmelt nonwovens (spunbond and meltblown) will remain the largest product segment, accounting for nearly 60% of the total value in the US alone, according to ReportLinker. Gains in spunbond nonwovens will benefit from increased penetration of markets now served by competing nonwovens or other classes of materials.



Ultrasonic welding technology For continuous nonwovens applications



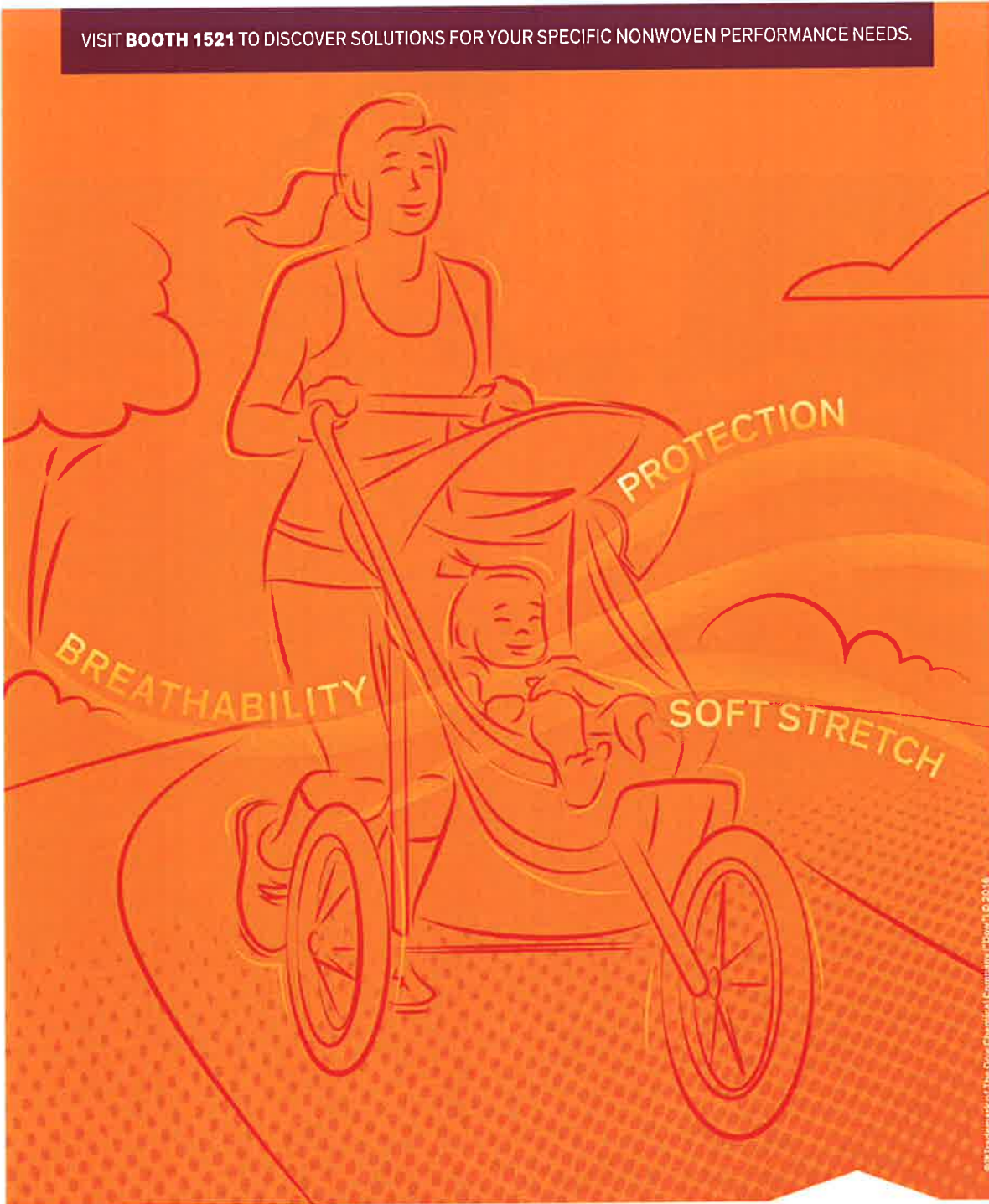
0% Adhesive. VE MICROBOND CSI/RSD.

With ultrasonic systems, products can be welded energy efficiently and without any additives. The VE MICROBOND ultrasonic systems can be directly integrated into the processing line with proven high performance and consistent product quality.

More information: Tel. +1 (630) 626-1626
www.herrmannultrasonics.com



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For on-the-go lifestyles, you want the confidence of discrete protection without sacrificing comfort or freedom of movement. Soft stretch technology from Dow offers cloth-like softness and exceptional elasticity so you feel unencumbered throughout the day's activities. Dow collaborates closely with fabricators, OEMs, and brand owners to address all critical hygiene nonwoven needs, including breathability for healthy skin and reduced noise so you can keep on moving.

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