



CFRP is becoming the material of choice for many applications in the nonwovens industry. Why? Critically, CFRP offers significantly reduced deflection over rollers made from other materials like steel and aluminum. This enables the use of much longer rollers, which in turn brings greater efficiency and larger scale to production, enabling greater sizes and faster speeds.

Based across two sites in the Netherlands and Germany, Pronexos is a supplier of CFRP rollers with an impressive track record—over four decades of experience in the design and manufacture of CFRP rollers and tubes.

“The advantages of CFRP specifically for nonwoven is low deflection and weight reduction,” comments Philipp Kroschner of Pronexos. “Our customers are typically replacing aluminium rollers with a higher deflection, which are being used in a wide range of applications from medical face masks to artificial grass. This move enables them to implement longer rollers in their production lines.”

As well as reduced deflection, carbon fiber can also offer measurable improvements in strength, hardness and general resistance to wear-and-tear. “The combination of weight reduction, low deflection and strength makes carbon fiber the ideal choice for applications where the manufacturing process is quite rough or dirty,” says Kroschner. “Corrosion of some sort is inevitable in steel rollers, but CFRP does not degrade in this way.”

Pronexos can manufacture CFRP rollers up to 6m in length in carbon fiber and can supply rollers with a range of coatings including rubber and its own registered composite coating.

www.pronexos.com

Rando Machine

For more than 70 years Rando Machine has played a leading role in the development of airlaid manufacturing equipment for a variety of industries including automotive, abrasives, filtration, health / hygiene, furniture, aerospace and agriculture. Rando Machine designs and builds machinery for fiber preparation, web formation, and shredding / re-fiberizing; and together with strategic partners provides complete turnkey lines.

Its lab includes a complete 40" fiber blending and web forming line as well as a shredding and re-fiberizing system for recycling bonded fibers. It has extensive experience running a variety of fibers including cotton and synthetic shoddy, nylons, polyesters, natural

fibers, ferrous and nonferrous metals, rayon, fiberglass, carbons, nanofibers, and many others. Bring your fiber and let Rando's application engineering team show you what is possible. Lab trials for process development and even short production runs can be booked depending on a customer's needs.

In late 2019 Rando Machine came under the ownership of EIS Machine LLC, and Indiana-based custom machine manufacturer. This marriage joins Rando Machine's unrivaled applications and design engineering team with additional modern manufacturing capability in EIS Machine's Indiana production facility. Together they are stronger than ever and ready to serve production needs with quick turn around on service parts, roll repairs and new machinery.

www.randomachine.com

Saueressig Surfaces

Under the direction of parent, Matthews International, Saueressig Ungricht has been renamed Saueressig Surfaces and operates under the Saueressig Group umbrella. Saueressig Surfaces combines the strong technical expertise in surface processing and finishing for a wide range of industries. Specifically for the nonwoven industry, Saueressig Surfaces' portfolio includes embossing cylinders and microporous shells for the hydro-entanglement process as well as engraved and smooth calender rolls for spunmelt nonwovens. The requirements for nonwoven fabrics are constantly growing. Designs are becoming more challenging and manufacturing techniques more complex. As recognized experts in the field of nonwovens, Saueressig Surfaces have established themselves on the international market through constant advancement of their sleeves and rollers in all applications.

Due to internal repro competencies, specialized sales teams, the latest laser based engraving methods as well as highly evolved mottage techniques, the Saueressig Surfaces team is available to assist nonwovens producers with pattern, roll and sleeve design and development for all common nonwoven production processes. By using hardened rollers, MPS, basic and structured drums, Saueressig Surfaces are able to create individual material refinements and to give nonwoven producers customized products. Both in manufacturing and in the final result, these customized rollers, structure and pattern templates provide the best possible product quality.

www.saueressig-surfaces.com

Shemesh Automation

Any major wet wipes manufacturer around the world, has either heard of, or is using a Shemesh Automation Wet Wipes machine. Of course, with Covid-19 the demand for such machines has gone through the roof, so Shemesh has recently bolstered its flagship monoblock round wipes packer—Xpander—with a host of improvements and upgrades.

The Xpander is a robust, fully automatic, servo-driven vertical index machine. It is specifically designed as a single block for the downstream packaging of round, nonwoven wet wipes in cans.

With its unique all-in-one monoblock packaging machine design, the Xpander encompasses all aspects of round wipes downstream



packaging from cans and wipes loading, dosing, and sealing through to capping, labeling, built-in QC and smart-weight checking. The Xpander has a throughput of up to 35ppm and is the only machine of its kind available on the market today.

Its sister unit, the Xpander+ includes fully automatic feeding, so long as the lid and canister hoppers are kept filled and can be operated completely 'hands-free'—delivering even greater operating efficiencies.

Truly universal, all Xpander machines support both round, conic, rectangular and oval shaped cans, screw and push lids, and wrap around or front and back labeling.

Both the Xpander and Xpander+ have recently been enhanced with a suite of improvements to quality control, production consistency, a revamped operating system and new Industry 4.0 features.

With over 30 years' in the industry and over 1400 assets in 30 countries around the world, Shemesh Automation is a global leader in the high-end packaging machinery arena.

www.shemeshautomation.com

Sicam

Sicam produces machinery and plants for textiles and nonwovens with over half a century of experience.

Speaking with the owner Ing. Stefano Zanardi, son of the founder who created the company in Milan in the 1950s, the passion for mechanics immediately shines through, with a focus in process of continuous innovation based on many projects carried out.

Sicam has in fact consolidated technologies that have affected the bonding of fibers from airlay or carding for decades, but also spunlace or spunbond, staple fiber, chemical bonding, spray bonding or thermofixing processes; Tailor-made projects and complete turn-key solutions have brought Sicam to compete with the main international players.

During March 2020, because of its long time experience in the medical field and its own production of spunbond machinery equipment, Sicam has been contacted from Wuhan by Crown Name Group, a leading global supplier of high quality and standardized disposable hygiene wear and safety workwear.

In an historical time in which, due to the coronavirus pandemic spreading, hygiene and safety wear are more than important for moral, legal and financial reasons and all the organizations have a

duty to ensure that employees and any other person who may be affected remain safe at all times, the need of Crown Name Group is to increase machinery equipment for the spunbond production in order to produce respirators, a medical disposal required by the international laws.

For this reason, they choose an experienced partner in nonwoven machinery as Sicam, with a vocation for the customization of each project and with a special attention to best production practices, efficiency and environmental factors. The Sicam supply to Crown Name Group of spunbond equipment assures and high quality output, knowing that the use of those respirators can really protect only if they are produced with high level standard nonwovens.

www.sicamsrl.com

SonicAire

Nonwovens manufacturing uses a broad range of high-speed, innovative processes to create engineered-fiber products and many of those processes in turn generate combustible fiber accumulation. SonicAire's industrial dust/fiber control fans use precision airflow technology to prevent combustible fiber build-up. This proactive approach effectively keeps plant overhead areas clean and mitigates the risk of combustible fiber events.

SonicAire fan systems provide safety, productivity, economic and

Fox Converting

Wide Web - Roll to Roll

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Laminating
Custom Converting

Materials

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