Nonwovens on the FRONT LINES

MEDICAL MARKET RESPONDS TO CRISIS

Emerging Markets Report

2020 Machinery & Equipment Review
ogy completely replaces conventional batch mixing of solid materials making the manufacture of pastes and compounds easier with a much smaller space requirement while drastically reducing costs and waste. It is even possible to foam in-line the mixed ingredients during the continuous mixing process without a supplemental foam generator. Key advantages of such systems are no excess or wasted materials, easier cleaning, lower energy consumption, maximum recipe flexibility, as well as precise recipe and process control.

www.hansamixer.de

Hastem

Hastem GmbH, located in Nördlingen, Germany, is well known for its complete line of slat conveyors, aprons and transport belts. For more than 50 years, the name Hastem has been synonymous with innovation, design and construction of high quality slat and pinned transport aprons. With numerous patents through the years, Hastem has provided nonwoven producers and machine builders with specialize solutions for transporting webs or fibers in air lay and carded nonwoven processes. Hastem C-System slat aprons are supplied in a variety of surface textures for optimal performance while the AB-System of pinned or spiked aprons are proven with long lifetimes in fiber opening, feeding, blending and conveying applications.

Through a comprehensive global network of agents and distributors, Hastem is able to quickly respond to customers' requests. In North America, Hastem’s distributor is Fi-Tech, Inc. located in Richmond, VA. Having worked with Hastem since 2002, Fi-Tech maintains a stock of critical spare parts allowing for quick delivery. In case of replacement smooth and pinned aprons for most OEM lines such as Dilo, Tritzschler, LaRoche, Autefa and others, Hastem and Fi-Tech are able to quickly respond with competitive quotes and short delivery times. Through years of experience, Fi-Tech has also perfected the logistics of transporting often wide aprons up to 6 meters from Hastem’s facility in Germany to North America quickly and at a reasonable cost.

www.hastem.de / www.fi-tech.com

Herrmann Ultrasonics

Herrmann Ultrasonics rotary solutions offer continuous ultrasonic bonding, with low material friction resistance and high continuous process speeds exceeding 2,000 ft/min (600m/min). With the addition of the newly designed Ultraspun RSD 20-85, coupled with the closed loop Microbond Control System, it becomes an unbeatable rotary solution in bonding width. Applications in hygiene products, such as feminine care, baby and adult diapers, will benefit from the implementation of the 3.3” (85mm) wide rotary ultrasonic solution. The wide format solution can also improve machine efficiency, especially where multiple installations are needed to cover the width of this single 85mm solution.

Additional benefits include soft binding of different materials, three-dimensional embossing with high loft, high welding strength and elimination of consumables.

The Herrmann Ultrasonics rotary portfolio offers a wide range of systems to match the application requirements. Rotary ultrasonic solutions are available in a variety of frequencies with a bonding range width from 6mm to 85mm.

www.herrmannultrasonics.com

Hills Inc.

Hills Inc. manufacturers meltblown machinery that produce filtration media with breathable barriers and other high value uses including N95, FFP2 and other face mask types. Hills' unique technology utilizes patented thin plates to create special extrusion dies that permit great design and operating flexibility. Hills' dies offer very high polymer pressure capability, hole count to >100 hpi, and unlimited capillary L/D. Hills customers’ dies may be tailored to make specific products (choice of polymers including high-viscosity polymers, fiber sizes from under 250nm average to 10+ microns in diameter, and/or bicomponent fibers).

Hills also manufactures spunbond machinery with the most sophisticated bicomponent extrusion technology, temperature separation for each polymer, high pressure capability, ultra-high-spinning-speed slot draw units, and characterizable forming tables. Hills provides:

a) complete spunbond machines for specialty products including lofty or bulky webs.

b) key components for companies building their own machines

c) bicomponent extrusion technology for the excellent bicomponent spunbond machines manufactured by Reicofil.

Nanofibers under 500nm are easily produced at rates far greater than that of any other method. Polymer choice, cross-section, and process flexibility permit many different products to be made on the same machine. Some high-value markets being served are artificial leather, industrial fabrics and filtration media.

In addition to meltblown and spunbond, Hills offers high-capacity mono- and bicomponent staple fiber machinery, and also affordable conversions of existing “blended polymer” staple machines to true