Bosch Packaging Technology to unveil testing equipment for jelly production

Bosch Packaging Technology is set to unveil its new jelly lab equipment at this year's Pack Expo International in Chicago, US, which is being held from 6 to 9 November.

The company will exhibit the testing equipment for jelly production, including medicated and functional gummies such as cough lozenges, omega-3 and mineral-enriched products, as well as other supplemented jellies.

Bosch's GML03 lab depositor allows manufacturers to test and develop new products and bring them to market fast. Photo: courtesy of Robert Bosch.

It will showcase the laboratory depositor and drying room, which will allow jelly producers to accurately test new products, helping in accelerating the production of tested recipes to an industrial scale.

Featuring exchangeable pump system and different sizes of servo-controlled pistons, the GML03 lab depositor can process a range of product formulas to produce jellies, hard candies, toffees, and fondant.

It can also process other confectionery masses such as single, one shot, striped and striped with filling.

The drying room enables to control drying parameters, which are graphically recorded and visualized on a built-in PC for optimal quality assurance.

Bosch said the North American manufacturers can benefit from its complete system solution offerings ranging from raw material weighing and dosing to end-of-line packaging.

Bosch Packaging Technology product manager Frank Jansen said: "We see growing demand for functional and medicated jelly in the U.S. Jellies are seen by both producers and consumers as an ideal carrier for vitamins, supplements and active pharmaceutical ingredients.

BÜHLER commits to global food supply challenge

Industrial processing giant Bühler is taking its role in tackling global food supply challenges seriously.

Together with key customers, scientists and partners, Bühler faced up to this enormous task at its Networking Days, which involved some 750 participants.

Stefan Scheiber, CEO of the Bühler Group said, "We take the responsibility of the food and feed industry for a sustainable world very seriously".

The company believes that now is the time to step up and make a difference. At the Bühler Networking Days, the company presented innovations that make a contribution to a sustainable food value chain, by increasing energy efficiency, yield, and quality, at lower costs.

The challenges for the food industry are enormous. Around 65 % all energy use is related to food and feed produc-

GEA presents future-oriented solutions at eurotier 2016

New future-oriented solutions from GEA to support efficient dairy farming will be showcased at EuroTier, from 15-18 November 2016, expo grounds Hanover, Germany. With its continuous development of innovative and sustainable solutions GEA will empower its customers to manage the future of their businesses successfully by providing state-of-the-art products and services with a focus on cost-efficiency. Amongst others, GEA will present its latest automated milking solutions "Monobox" and "DairyProQ" for effective work environment and highest milk quality. Furthermore, the new "DairyNet" herd management software in cooperation with "365 FarmNet" to best support dairy farmers in their daily business.

Steffen Bersch, Member of the Executive Board of GEA says, "For GEA EuroTier is the key innovation show for the international dairy farming sector. We are absolutely aware of the challenges the industry is facing right now. Thus, GEA will be present for its customers with long-lasting and cost-efficient solutions to provide benefits with a focus on increase in productivity, profitability and future-orientation especially in the current market environment". "We stay strong partners to our farmers and dealers also in challenging times and want to underline this with our presence at EuroTier, a product and service portfolio for our customers' benefit and ongoing investments in our dealer network."◆

tion. The world population is still growing and more than 30% all food is wasted. Developed countries suffer from overweight and obesity with an estimated impact of $2 trillion (1.7 trillion, £1.5 trillion) worldwide. At the same time, an estimated 840 million people suffer from hunger.

Bühler has made the commitment to address this challenge globally, with its key customers and partners at its newly established Bühler Networking Days, where around 750 leaders from industry and science are discussing megatrends that are shaping the grain-processing industry: nutritional trends, sustainability, food and feed safety, and the Internet of Things (IoT). Stefan Scheiber, Bühler CEO, and Johannes Wick, CEO Grains & Food at Bühler, have opened the Bühler Networking Days today.

"As the leader of our industry, we want to anticipate megatrends and lead the discussion about how our businesses will evolve in the future," says Stefan Scheiber, "Our industry plays a key role since corn, rice, and wheat are the most important staple foods for four billion people. And with the impending protein gap, grain-processing will become even more important," said Scheiber.

Bühler's long-standing commitment to educating and training customers to be able to operate the latest equipment sustainably, is also reflected at the event, with the presence of the Swiss and the African Milling Schools, as well as the Swiss Institute of Feed Technology.

Every year, Bühler invests up to 5 % of its turnover into research and development. The resulting innovations make a big difference in feeding a growing world population and reducing energy and water usage. At the Bühler Networking Days, Bühler is presenting more than 30 innovations in the specifically built exhibition area in Uzwil, Switzerland, covering 1,800 m sq. A number of newly-developed solutions are being launched specifically at the event, for instance, the latest generation of the pasta-drying solution, Ecothermatic, with energy savings of up to 40 %, or the high-precision scale Tubex, which reduces energy costs by over 90 %.◆

MULTIVAC: Automatically pack and print small or medium-sized batches

With its R 081 thermoforming packaging machine, MULTIVAC offers an entry-level model for automatically packing small or medium-sized batches in the medical sector and pharmaceutical industry. The MR 296 TI direct web printer is available as an equipment option for printing the packs to the legal requirements.

The R 081 is characterised by its process reliability, cleanroom suitability, ease of operation and high level of flexibility. Thanks to its length of approx. 3 metres, it is very compact in its dimensions and therefore also ideal for use in environments with limited space. Its main area of use is packaging sterile medical products in small batch sizes or for test markets.

With a maximum output of 15 cycles per minute, the R 081 is able to run rigid and flexible films as well as Tyvek® and paper-based packaging materials with a total web thickness of up to 400 µm. It can be equipped with evacuation and gas flushing systems and can therefore also be used for producing vacuum packs or packs with modified atmosphere and reduced residual oxygen content.

Servo-driven lifting units provide a high level of closing force and ensure that the sealing pressure is distributed evenly. This means that they guarantee a consistently high level of sealing quality and therefore increase the pack security. Thanks to MULTIVAC's proven slide-in technology for dies, changing the forming and sealing dies is simple, fast and reproducible.

The R 081 is available in different machine widths, and this enables the formats to be laid out flexibly. In the case of cut-off lengths between 100 and 200 mm, a forming depth of max. 60 mm is possible, while a forming depth of up to 80 mm can be produced with cut-off lengths between 210 and 300 mm.

Equipment options

Where the packs need to be printed to the legal requirements, MULTIVAC can offer as an equipment option the MR 296 TI direct web printer, which is suitable for multi-track packaging solutions and consists of a propulsion unit and thermal inkjet printer. The proven HP thermal inkjet technology enables paper and Tyvek® to be printed perfectly in a resolution of 600 dpi. This means that variable production data such as lot number, batch, expiry date or codes can be printed in excellent quality directly onto the upper web of the pack. This equipment option for MULTIVAC's packaging system ensures that the relevant requirements of the UDI (Unique Device Identification) are met, whereby there is product information in clear script and a unique marking along the entire process chain, so that the products are identifiable by means of codes that can be read by machines.

The thermal inkjet printer is very impressive with its minimal setup time, low maintenance and long service intervals. The cartridges can be changed very quickly and easily. The maximum print height per printing head is 12.7 mm, and the modular concept enables the system to be expanded to up to four printing heads within one production line.

Various monitoring systems can also be incorporated in the R 081, as can solutions for discharging the finished packs. This compact machine can of course be equipped with validation and calibration packages.◆