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World novelty: ZSE 40 iMAXX with fleXXcover

From 16 – 20 October 2018, German Leistritz Extrusionstechnik GmbH presents for the first time the design study of the ZSE 40 iMAXX twin screw extruder with innovative full cover at the Fakuma 2018 in hall A6/stand 6302.

Friedrichshafen/Germany (16 October 2018) – The new and innovative fleXXcover for twin-screw extruders is a solution that offers more safety for the operator, even easier handling and a high degree of flexibility. „We have taken a completely new approach in terms of machine cover,” says Managing Director Anton Fürst. „Instead of being made of metal, our fleXXcover is made of a glass fiber textile that offers a variety of advantages." The design study of this revolutionary development can be seen on the new twin-screw extruder ZSE 40 iMAXX. „The ZSE iMAXX series already includes machines with 27 and 35 mm screw diameter. The expansion by a further size is the logical consequence," says Fürst.

fleXXcover – newly interpreted machine cover

The appearance and surface texture of the new cover are striking: it is made of a PTFE-coated glass fiber textile, a heat-resistant material suitable for extrusion processes. "The fleXXcover has a lower heat conductivity than metal. This results in a lower surface temperature."

The machine cover is designed in four parts: two cover halves above the process section, two above the drive unit. They are attached to the base frame by means of plug-in connecting bars and fixed in place using pneumatic tensioning elements. Fürst explains: "This type of setup allows very simple handling. A single operator is able to remove each of the four parts without any additional tools." The removed cover can easily be rolled up, stored and exchanged. The combination of material, fixation and simple handling makes cleaning very convenient. "Since this is a more economical option than metal covers, each of the four cover parts can be purchased more than once if required, for example if the process setup

is changed." Leistritz side feeders or degassing units integrated into the process setup are also covered with the material. "We are presenting this ingenious solution for the first time as a design study for the new ZSE 40 iMAXX at the Fakuma," says Fürst. "With this, we want to offer our customers a further added value. We're very excited to receive their feedback."

ZSE 40 iMAXX

Due to the high specific torque (up to 15.0 Nm/cm³), the ZSE MAXX machines are among the most powerful co-rotating twin screw extruders. Added to this is the high volume in the screw facilitated by the large OD/ID of 1.66. The ZSE iMAXX extruders (27 and 35 mm) are convincing due to their intelligent and integrated design. At the Fakuma the ZSE 40 iMAXX is introduced for the first time. It is a machine which is particularly suitable for medium batch sizes and throughputs of up to 700 kg/h.

The extruder combines the convincing features of the ZSE iMAXX machines. The heating/cooling system and the heating elements are fully integrated in the frame or processing unit. This ensures optimum accessibility. Cleaning and replacing individual components is extremely easy. A central water connection is sufficient for the entire system. The ZSE 40 iMAXX is equipped with an energy-efficient synchronous AC motor for the main drive. Leistritz thus contributes to a resource-saving extrusion process. The majority of the electrical components is housed in a separate control cabinet. In addition, torque measurement can optionally be installed. By means of a monitoring system, the oil pressure and temperature of the gear box can be controlled at all times.

Smart solutions

"Industry 4.0 and the use of smart sensors play an important role. In the course of the continuous further development of process technology, we have therefore paid special attention to intelligent process monitoring," explains Anton Fürst. Leistritz shows how this can be done in the practice by means of the elongational rheometer exhibited at the trade fair. The Leistritz after sales sector also presents smart solutions, showing for example how service via augmented reality is done. Interested visitors can find out at the Leistritz stand what kind of added value this will bring to customers.

Leistritz Extrusionstechnik GmbH at the Fakuma 2018 in **hall A6/stand 6302**

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Design study: the ZSE 40 iMAXX with flexX cover

Leistritz Extrusionstechnik GmbH

For over 80 years Leistritz Extrusionstechnik GmbH with its headquarters in Nuremberg/Germany has been building twin screw extruders for the processing of plastics and pharmaceuticals. Leistritz customers benefit from the know-how in various areas of material processing such as masterbatch, compounding, direct, lab and pharmaceutical extrusion. The company employs around 200 people worldwide and keeps subsidiaries in the US. (Leistritz Advanced Technologies Corp.), China (Leistritz Machinery (Taicang) Co. Ltd.), and Singapore (Leistritz SEA Pte. Ltd.) as well as sales offices in Italy and France.

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