

## Press Release 4/2014

### XXperience Leistritz Technology!

*German extruder manufacturer Leistritz Extrusionstechnik GmbH presents the new side feeder LSB 52 XX in hall A6/stand 6302*

Friedrichshafen/Germany (October 2014) – The ZSE MAXX twin screw extruders from Leistritz Extrusionstechnik GmbH could be described as multi-talents. They have an optimal energy efficiency and can be used for torque as well as volume restricted formulations. “At our stand we will not only show an example of a ZSE 60 MAXX, but also our new side feeder LSB 52 XX“, says Anton Fürst, Managing Director at Leistritz.

#### *ZSE MAXX extruder*

Due to their very high specific torque (up to 15.0 Nm/cm<sup>3</sup>) the ZSE MAXX machines are among the strongest co-rotating twin screws worldwide. In addition to this, they have a high available volume in the screw (OD/ID = 1.66). Throughput can be increased more than 50% by means of this excellent torque/volume ratio. High throughputs combined with low mass temperatures are results of an optimized energy input. “One has to do anything possible to save up any kilowatt hour possible. Especially, in times of rising energy costs,” says Anton Fürst. “Compared to the machines of the previous ZSE HP series, the ZSE MAXX extruders have a better homogenizing performance – with a lower energy input. This means, by supplying the same energy input they achieve a significantly better homogenization.“ The ZSE MAXX series comprise extruders with screw diameters ranging from 18 to 180 mm. Thanks to a modular screw and barrel system as well as a sophisticated drive system consisting of high-end drives and motors (with screw speeds of up to 1,200 rpm) these extruders can be used for various applications.

## *Leistritz Side Feeder LSB 52 XX*

The auxiliary equipment of the extruder is also an important issue. Leistritz continually works on further developments to increase efficiency and quality. Such a novelty is the Leistritz side feeder LSB 52 XX. Side feeders are usually used for feeding powders and fibres. Just like in the processing unit, twin screws are used here in order to safely feed the material into the process. The screws of the LSB 52 XX have a very high OD/ID ratio. This parameter is important for feeding material with very low bulk densities. A specific feature of this side feeder is that segmented screws can be used. That means: The screw geometry can be configured according to the requirements of the raw material – just like in the extruder. This way the product can e.g. be pre-compacted in order to get the air out of the process. The adaptation of the LSB 52 XX to the extruder was redesigned. Tie rods are used here now, which facilitate an easy attachment of the side feeder to the cold, easily accessible area of the drive at the extruder barrel. For this purpose, the respective barrels were redesigned. The screws and barrels from the side feeder can be produced from the same material available for the extruder screws and barrels – without restrictions. This facilitates feeding of highly abrasive as well as highly corrosive products into the process via the side feeder.

„At the Fakuma we are providing an insight into our product range“, says Fürst. “At the Compounding Workshop in Nuremberg, Germany, on November 4<sup>th</sup> and 5<sup>th</sup> we will show the advantages of our extruders in various applications.” The participants will find out more on highly-filled compounds, natural fibre compounds or flame retardant compounds. Further information can be obtained under [www.leistritz.com](http://www.leistritz.com).

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

Figures (from Leistritz):



Anton Fürst  
Managing Director  
Leistritz Extrusionstechnik GmbH



Efficient development:  
LSB 52 XX

## Leistritz Extrusionstechnik GmbH

For more than 50 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 190 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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