



Press Release 10/2009

Leistritz in Large Sizes – first ZSE 180 MAXX shipped, Powerful Twin Screw and Flexible Side Feeder

During the Fakuma fair in hall A6/stand 6302 (October 13th to 17th, 2009) Leistritz presents parts of the new ZSE 180 MAXX twin screw, the ZSE 60 MAXX twin screw extruder and another highlight on the fair and world novelty: the new side feeder LSB FLEXX

Friedrichshafen (October 13th, 2009) – The ZSE MAXX twin screw extruder are well known as very flexible and versatile machines. „The Leistritz extruders have established themselves in the market as allrounders with optimum specific energy input not only for products that are limited in torque, but also volume limited formulations“, Dr. Hubertus Schulte, CEO of German Leistritz Extrusionstechnik GmbH sums up. The remarkable features of those machines are impressively demonstrated with the ZSE 60 MAXX which is displayed at the Leistritz stand on this year's FAKUMA. With a 48 L/D processing unit and two sidefeeders the machine is equipped for processes with high levels of fillers. Thus the corresponding forward and backward vents are installed, which enable trapped air to be removed from the process. Further important factors for compounders and masterbatchers are hidden under the hood:

MAXX Advantages

The ZSE MAXX machines are regarded the strongest extruders worldwide due to the highest specific torque (up to 15.0 Nm/cm³). Additionally, they have an increased volume in the screw (OD/ID = 1.66). That means, by an optimized volume/torque ratio the throughput increases significantly by up to 50%. This is made possible by the splined shaft design, which facilitates higher torque. Due to the well adapted cooling system – maXXcooling – the cooling capacity of the extruder is very high, in order

to allow for the increased throughput in the processing unit. Further important advantages of this machine series are the high-end-gearbox of a notable German manufacturer and the water-cooled three-phase drive. This feature is called maXXtorque and stands for the most powerful drive concept for co-rotating twin screw extruder worldwide.

First ZSE 180 MAXX shipped

At the end of September 2009 the first ZSE180MAXX extruder was shipped. Because of a confidentiality agreement Leistritz signed for this project, neither process nor customer can be mentioned. Still, the shipping is worth mentioning as the 30 metric tons machine, which enables throughputs of up to 15 t/h (depending on the application) is the largest extruder Leistritz has ever produced. The twin screw is equipped with state-of-the-art ZSE MAXX technology and enables a wide processing window with optimized energy input, i.e. highest throughputs and low melt temperatures.

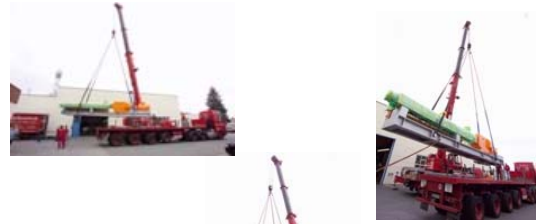
In order to demonstrate the proportions, a barrel and a screw element of the ZSE180MAXX are exhibited on the Fakuma stand. With the machine sizes ZSE87MAXX, ZSE110MAXX, ZSE135MAXX and ZSE180MAXX Leistritz is well fitted to supply machines for very high throughputs in various compounding tasks.

World Novelty: The Flexible Side Feeder

When feeding badly flowing additives into the extrusion process, it can lead to bridges, process interruptions or undesirable deviations in the formulation. Leistritz offers a solution to this problem with a world novelty: the side feeder LSB FLEXX. "Formerly there was a solid wall in the feed barrel of the side feeder. Now a silicone piece that replicates the original form can be inserted", describes Dr. Schulte the innovation coming from the Leistritz' think tank. „So, when feeding badly flowing additives, practical advantages arise for the compounder". The outside wall has various notches. A pneumatically activated roll runs oscillating along those notches. The linear movement can be turned on and off via the extruder control. Also the interval and the cycle time can be set in full seconds. The wall is set in motion by the linear movement. Thereby bridging in the feed barrel can be prevented respectively already existing bridges can be dissolved. A further advantage: The product touching wall is smooth and therefore easily cleanable. So far, mechanic stirring devices, vibrator motors or wipers have been used to prevent bridging. The time-consuming and expensive cleaning of those devices can now be avoided.

Pictures

www.leistritz.com/extrusion/en/02_news/index.html



Suggested Captions for ZSE 180 MAXX shipping

ZSE180MAXX – more than 30 tons of high-tech extrusion equipment

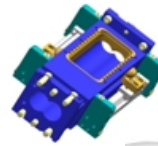
ZSE180MAXX being loaded on the truck

ZSE180MAXX – the beginning of the journey



Suggested Caption for LSB FLEXX drawing

LSB FLEXX with flexible insert (yellow) and activated roll



Suggested Captions for LSB36FLEXX

LSB FLEXX side feeder with activated feeding barrel



LSB FLEXX prevents bridging of material in the side feeder



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Leistritz Extrusionstechnik GmbH

For almost 40 years Leistritz Extrusionstechnik GmbH with its headquarters in Nuremberg/Germany has been building twin screw extruders for the processing technology. 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 140 people worldwide and keeps a subsidiary in the US., the American Leistritz Extruder Corp., as well as sales offices in Italy, France and Singapore.

Leistritz at Fakuma 2009: Hall 6 Stand 6302

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