

Press Release 2/2010

Ideal for Use in the Pharmaceutical Industry: the NANO 16

Leistritz presents the optimised twin screw extruder for smallest batch sizes in Hall 1/stand 228.

Nuremberg/Germany (April 27th, 2010) – On the occasion of this year's Technopharm fair Leistritz Extrusion Technology will display the optimised NANO 16. This machine still is the only twin screw extruder in the market, which is equipped with a micro-plunger feeder. It facilitates the continuous extrusion process for batch samples up to 100 cm³ and the testing of a formulation's extrudability.

Function: Micro-Plunger Feeder

The micro-plunger feeder consists of a piston which slides inside a stainless steel tube. The tube is filled with a 20 to 100 cm³ batch. After being positioned at the bottom of the feed barrel, the piston is pushed upwards by a variable speed drive to facilitate precision feeding at extremely low rates. The micro-plunger feeder is a positive displacement device that can meter materials in virtually any form, such as powders, granules, micro-pellets, pastes, water-based slurries etc. "The OD/ID of 1.15 offers an extremely low free volume" explains Richard Steiner, pharma product manager at Leistritz. "The NANO 16 combines this low free volume with a precise and minimal material input." Optionally, a standard gravimetric feeder can be used.

All important functional processing areas and the input of shear energy can be shown with the NANO 16, just like with the big twin screws. It can easily be upgraded by exchanging the processing unit with an 18 mm screw diameter. Throughputs between 200 g/h and 20 kg/h can then be realized.

Suggested Caption of the NANO 16

The NANO 16 twin screw extruder with micro-plunger feeder



Further Information and images available at:

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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 master-batch, 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 the Technopharm 2010: hall 1 / stand 228