

## PRESS RELEASE

**Brabender Technologie solves the problem of fibre feeding**

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- Innovative feeding of natural fibres, wood fibres, long carbon fibres and film chips
- To be presented at K 2016 in Dusseldorf, 19th – 26th October in Hall 10, Stand A41.

Duisburg, September 2016 – With its new fibre feeder, Brabender Technologie is breaking new ground in the feeding of long and uneven fibres. While conventional feeders used to be restricted to short and compact bundles of fibres such as glass fibres, for example, the new feeder is now capable of accurately metering natural fibres, wood fibres, long carbon fibres and film chips.

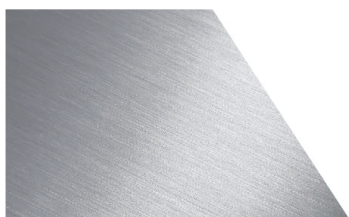
**New fields of application**

As one of the main fields of application, the new fibre feeder can be used for shredded film strips. These are waste materials from plastic film production processes, where the film edges are cut off by film edge trimmers. This results in 10-30 % of unspoilt material, further utilisation of which has until now been difficult. The new feeder allows to refeed the remnants back into the production process as film chips so that they can be recycled. This saves resources and optimises the production process.

Feeding of natural fibres is another field of application. The fibre feeder is capable of metering them reliably, accurately and continuously in filling material or wood-plastic composites production processes. Carbon fibres are just as difficult to recycle. As reinforcement, they are laminated onto components by a roll. Materials and remnants are left over, the disposal of which is costly. The feeder is designed so that the remnants, as well as the recycled fibres, can continue to be used over and over again.

**Functionality**

Feeding of such long fibres is made possible by using a special fibre screw, a large steep walled hopper and a novel design and special position of the stirring agitator in the hopper. "This unique and innovative design promotes



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forced ingredient flow into the screw”, explains Norbert Marek, who provided the idea for the fibre feeder. Considering that the flow characteristics of the ingredients differ significantly, design details vary in each individual case. The company maintains confidentiality regarding the exact construction of the feeder.

What is no secret, however, is how important the control system is for reliable fibre feeding. The ratio of feed screw and stirring agitator speeds is essential. “Our CM plus or CB plus controllers are responsible for this”, emphasises Norbert Marek. The optimum ratio of screw and agitator speeds can be individually determined by feeding trials in Brabender's test lab to be adjusted accordingly during feeder start-up.

### **Hitting the right spot in the market**

“We are certain that we have hit the right spot in the market with this innovation”, claim Horst Vohwinkel and Bruno Dautzenberg, both managing directors. “With the fibre feeder, we are not only resolving a well-known feeding problem, but are also opening up new ways of processing materials that have up to now been considered unfeedable.”

Brabender Technologie will be presenting its fibre feeder at K 2016 in Dusseldorf, 19th – 26th October, in Hall 10, Stand A41.

### **You can find downloadable images at our Media Center:**

**<http://www.brabender-technologie.com/en/media-center/press-pictures/>**

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#### **About Brabender Technologie:**

Brabender Technologie's core areas of business are the production of machines and systems for feeding, weighing, discharging and flow metering of bulk ingredients. As one of the world's leading feeder suppliers, the equipment of Brabender Technologie is found in all bulk ingredient processing industries. Besides our international headquarters in Duisburg, Germany, we have subsidiaries and affiliates all over the world. From all our locations we offer our customers feeders, discharge aids and flow meters for their specific requirements and, being a competent and reliable partner,

help them with our services.

Bulk ingredient processing industries cannot be imagined without Brabender machinery and systems, so – for instance – the plastics, chemical, pharmaceutical, food, pet food, detergent, ceramics, glass and construction material industries, to name just a few. The product line comprises gravimetric metering feeders (loss-in-weight feeders, weigh-belt feeders), volumetric feeders, weigh-batching systems, discharge aids (vibratory bin activators, bulk bag unloaders, bag dump stations) and flow meters for bulk ingredients.