

Press Release

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BB Engineering GmbH delivers melt filter for PET recycling system to Indorama Polyester Industries

2021 saw BB Engineering GmbH (Germany) deliver a melt filter for recycling PET flakes to polyester manufacturer Indorama Polyester Industries (Thailand). Indorama will be using the type NSF38 filter in its recently assembled recycling system in order to produce rPET granulate from flake PET bottle waste. The NSF38 filter enables continual filtering – in other words, the system switches from one filter to the other during the process without the need for conversion shut-downs. The filter allows the processing of consumer waste – for example, in the form of shredded PET bottles – into new, high-quality rPET granulate. This granulate is subsequently processed into manmade fibers in spinning systems.

The NSF38 is a switchable filter with a filter surface area of approx. 16 m² on each side, with throughputs of between 1,000 and 1,900 kg/h. The filter inserts each contain 19 pleated filter candles (60 x 1,000mm Ø). The filter medium comprises a sintered metal fiber nonwoven with a filtration fineness of 25 µm. This ensures that the melt remains free of contaminants and gel particles, which in turn enables the production of high-quality end products.



Fig. 1: Graphical animation of NSF38



Fig. 2: NSF38

For further information:

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About BB Engineering GmbH

BB Engineering GmbH is a German machine building company founded in 1997 as a joint venture between Oerlikon Barmag, a subsidiary of Oerlikon Textile GmbH & Co. KG, and Brückner Group GmbH. Today, the company employs more than 160 members of staff at its location in Remscheid, Germany, focusing their business on the development, engineering, design and manufacturing of extrusion and filtration technologies as well as complete spinning lines (VarioFil) and recycling technologies (VacuFil, Visco+) for the plastics and textiles industry. The services offered range from the design and planning phases all the way through to the implementation of projects.