BB ENGINEERING
The Valueneering Company®

Press release

April 2026

Plastics Recycling Show Europe 2026, Amsterdam

Efficient Recycling of textile PET

At the upcoming Plastics Recycling Show Europe in Amsterdam on May 5–6, BB Engineering will present its portfolio of PET recycling technologies. The German machinery manufacturer will once again focus on textile recycling and melt filtration.

Versatile Portfolio with a Focus on Textiles

BB Engineering's product portfolio includes components and systems for the production of films and synthetic fibers, as well as for PET recycling. With extruders, various filters, and complete spinning and recycling plants, the company possesses extensive expertise in plastics processing and can offer comprehensive PET recycling solutions from a single source. Based on its experience in the synthetic fiber industry, BB Engineering places a special focus on textile recycling (PET). BB Engineering will highlight its VacuFil® and COBRA® systems at PRSE.

VacuFil® Visco⁺ - PET LSP recycling at the highest standard

The VacuFil® PET recycling plant combines gentle large-area filtration with precise IV adjustment, thereby ensuring consistently outstanding rPET melt quality.

From bottle-to-bottle to 100% fiber-to-fiber: Thanks to its modular design, VacuFil® can be exactly tailored to individual requirements. A wide variety of PET feedstocks — such as flakes, textile waste, fiber waste, or start-up lumps — are processed reliably, while the IV is specifically adjusted to the desired end product.

At the heart of the system is the patented Visco⁺ component. Using liquid-state polycondensation, it reliably removes volatile contaminants and delivers an exceptionally homogeneous melt with a viscosity of ±0.01 dl/g — up to 50% faster than comparable LSP systems. Depending on the throughput, a viscosity increase of up to 30% can be achieved.

Continuous process monitoring via an online viscometer ensures a stable and reproducible output. VacuFil® has a capacity of 150 to 4,000 kg/h.

COBRA® sets new standards in melt filtration

With the development of its latest melt filter COBRA® BB Engineering has created a clear solution to the growing demands of the recycling industry. The goal: to reliably handle even high levels of contamination, simplify filter changes and cleaning, and at the same time significantly reduce operating costs.

The result is a high-performance system that combines continuous large-area filtration with automated, chemical-free intermediate cleaning. Two filter cartridges with automatic switching ensure stable, safe, and uninterrupted operation — even at high contamination levels where conventional candle filters or screen changers reach their limits.

A key advantage lies in the integrated cleaning system: it significantly extends the service life of the filter media while simultaneously reducing operational effort, melt losses, and energy consumption — all without the use of chemicals. This not only enhances process reliability but also sustainably lowers operating costs.

Thanks to its high flexibility, COBRA® is suitable for both coarse and fine filtration. In addition to its use in PET recycling, the system also offers great potential for increasing efficiency in other applications, such as plastic spinning, and can be easily retrofitted there.

Image 1: VacuFil® Visco+ testing plant in BB Engineering‘s technical centre

Image 2: COBRA® filter

High-resolution images are available for download:

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Valid until: 23.05.2026

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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 Barmag, nowadays a subsidiary of the Rieter group, and the Brückner group. Today, the company employs about 150 members of staff at its location in Remscheid, Germany, focusing their business on the development, engineering, design and manufacturing of extrusion, mixing and filtration technologies as well as complete spinning lines (VarioFil®), air-texturizing lines (JeTex®) and recycling technologies (VacuFil®, Visco+) for the plastics and textiles industry.