

**News Release** 

Barmag at the Domotex Middle

### Focus on sustainability at the trade fair

Remscheid, March 6, 2025 - Barmag, a subsidiary of the Swiss Oerlikon Group, is presenting comprehensive total solutions for efficient carpet yarn production for its Oerlikon Barmag and Oerlikon Neumag product brands at Domotex Middle East. At the representative stand of ATAG Ltd. Trading Export & Import (Z5-A20), trade visitors to the leading event for the carpet and flooring industry in the Middle East will have the opportunity to get an idea of the integrated solutions offered by the manmade fiber technology provider.

The trade fair presentation will also focus on the topic of sustainability. Together with partners such as Oerlikon Barmag Huitong Engineering (OBHE) and BB Engineering (BBE), Barmag will be presenting concepts for mechanical and chemical bottle recycling as well as for textiles, biopolymers and the circular economy. In addition, the company has been offering innovative solutions for the textile industry with the e-save sustainability label for decades, setting standards for a more environmentally friendly future.

#### Recycling - technologies for a sustainable future

The Homogenizer from OBHE enables thermomechanical recycling of polyester waste. Commercially available raw materials such as bottle flakes or post-industrial waste and film waste are processed into high-quality PET products. With an optimized residence time spectrum, the OBHE Homogenizer ensures constant polymerization conditions. This has a targeted effect on the desired increase in viscosity and produces an excellent and homogeneous melt quality. The production of high-quality and defined rPET products with further processing of the melt to POY and FDY in the direct spinning process or for the production of PET chips is thus guaranteed and has already been proven by installed systems on the market. With the Homogenizer, the customer receives a flexible system for thermomechanical recycling of polyester waste.

The VarioFil<sup>®</sup> R+ compact spinning system from BBE recycles and processes PET bottle granulate, and PET waste produced during start-up directly back into POY. The sustainable machine concept allows a high degree of product flexibility, including the production of spun-dyed yarn. The turnkey spinning line is also ideal for producers who manufacture small batch sizes or specialized products.

BBE's VacuFil PET recycling system convinces with the "From Waste to Value" principle. The system is designed to process textile waste to a high quality. Based on decades of experience in extrusion, filtration and spinning, the patented technology is unique: it combines gentle large-area filtration with targeted IV regulation for consistently excellent rPET melt quality, comparable to virgin material. Numerous input materials can be processed: In addition to the usual bottle flakes, VacuFil is particularly suitable for production waste from the spinning mill, from start-up lumps and yarn to unmixed fabrics, which can also include post-consumer waste. The patented key component Visco+, a liquid-state polycondensation system, quickly and reliably removes volatile impurities and automatically regulates the IV. There are various options for further processing of the treated melt. It can be fed into the main melt stream, processed into chips via pelletizing or flow directly back into the spinning mill. The VacuFil recycling system can therefore be designed modularly and flexibly to meet customer requirements.

# **œrlikon**

#### Novel bi-component BCF yarn for the carpet market

Quality, efficiency and performance - with its latest development in bicomponent yarns for carpet production, Barmag's product brand Oerlikon Neumag meets the carpet market's demand for new innovative BCF yarns. The new BICO BCF yarn is characterized by a richer and higher volume while significantly reducing raw material consumption in carpet production. "At the exhibition stand, interested parties can see sample yarns and carpets, find out about the range and have in-depth discussions about the benefits of BICO BCF yarn in various applications," explains Jilali Lakraa, Regional Sales Director at Barmag

## Efficient production of high-titer products in the POY and DTY process with WINGS HD and eAFK Big V

The knowledge of all relevant technologies in manmade fiber spinning enables Barmag to be the only manufacturer worldwide to offer a comprehensive range of services for the production of carpet yarns. The system concept based on a POY and texturing process is designed for a carpet and home textile product sector that requires particularly soft and bulky polyester yarns with BCF-like properties. The aim here is to produce yarns with a maximum count of 1200den and over 1000 filaments. Typical products are, for example, a 1200den f1152 or 600den f1152 as well as 900den f864. The machine concept consists of the well-known WINGS HD POY winder and the eAFK Big V texturing machine.

If DTY yarns up to 1200den with up to 1152 filaments are spun together from four POY bobbins 300d/288f on a DTY machine, as was previously standard, the process has a fundamental disadvantage: half of the available winding positions of the texturing machine remain unused. Here, Barmag offers the yarn producer a highly efficient solution: the spinning concept with WINGS HD take-up unit in combination with an automatic eAFK Big V multi-spindle texturing machine is currently the only solution on the market that produces excellent quality high-titer yarns with maximum machine efficiency. With this concept, the 1200den yarns are produced directly from two 600den POY bobbins.

#### JeTex® Air texturing from BBE enables a broad and flexible product portfolio

The JeTex<sup>®</sup> air texturing system from BBE perfectly complements the Oerlikon Barmag DTY system and enables the customer's product portfolio to be expanded to include high-quality ATY based on POY and FDY for a wide range of textile applications. The heart of the system is the texturing box developed by BB Engineering. In addition to many other state-of-the-art components from Oerlikon Barmag, it ensures gentle yarn treatment with reliable texturing effects as well as production efficiency in terms of OPEX, handling and speed.

The JeTex<sup>®</sup> air texturing system is not only available as a complete system, but also as a conversion variant for existing DTY systems from Oerlikon Barmag. This enables customers to expand or convert their product portfolio to ATY at comparatively short notice and at low cost.

#### VarioFil® - flexible compact spinning system for countless applications

Whether carpets and upholstery fabrics, fashion and sport or seat belts and airbags - a wide range of products is no challenge for the VarioFil<sup>®</sup> system from BB Engineering. The compact turnkey system is also ideal for producers who manufacture small batch sizes or specialized products. It is similarly flexible when processing different polymers, regardless of whether they are PET, PP, PA 6 and PA 6.6 or PBT. Customized conversion packages allow the system to be quickly adapted to constantly changing market requirements. In combination with Oerlikon texturing machines, a wide range of end products can be covered. This ranges from standard textile yarns to textured yarns with BCF-like properties.



7281 characters incl. spaces



#### Caption:

The BCF S8 system from Barmag's product brand Oerlikon Neumag offers high productivity and expands the product portfolio to a level that can survive in a constantly changing market.



#### Caption:

The eAFK Big V multi-spindle texturing machine is part of the solution of the Barmag product brand Oerlikon Barmag for the production of high-quality, high-titer yarns.



#### Caption:

The VacuFil® system from BB Engineering recycles post-consumer and post-production polyester waste.

#### **About Barmag**

Since 2025, the Swiss Oerlikon Group has continued its manmade fiber business as a subsidiary under the traditional name Barmag. This includes the established product brands Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven. As a future-oriented company, research and development are focused on energy efficiency and sustainable technologies (e-save).

Barmag is one of the leading suppliers of filament spinning systems for man-made fibers, texturing machines, BCF systems, staple fiber systems and solutions for the production of nonwovens. Together with its range of polycondensation and extrusion systems and their key components, Barmag thus co-

T +49 2191 67 0 F +49 2191 67 1313 www.barmag.com 3/4



vers the entire manufacturing process - from monomer to textured yarn - and supports it with customer-oriented engineering services. The product portfolio is rounded off by automation and digitalization solutions. In addition, Barmag offers high-precision gear metering pumps for the textile industry and other sectors, including the automotive, chemical and paint industries.

The main markets for the Barmag product portfolio are in Asia, particularly in China, India, Turkey and the USA. Barmag employs around 2,500 people worldwide and is represented by production, sales and service organizations in 120 countries. In the research and development centers in Remscheid, Neumünster (Germany) and Suzhou (China), highly qualified engineers, technologists and technicians develop innovative and technologically leading products for the world of tomorrow.

Oerlikon (SIX: OERL) is a global leader in surface technologies. Headquartered in Pfäffikon, Switzerland, the Group has over 12,000 employees at 199 locations in 38 countries with sales of CHF 2.4 billion in 2024.

Further information at: www.barmag.com

#### **Contact:**

André Wissenberg Marketing, Corporate Communications & Public Affairs Phone +49 2191 67 2331 Fax +49 2191 67 1313 andre.wissenberg@barmag.com Ute Watermann Marketing, Corporate Communications & Public Affairs Phone +49 2191 67 1634 Fax +49 2191 67 1313 ute.watermann@barmag.com