BARMAG
A Subsidiary of the Rieter Group

Press Release

India's Garden Silk Mills Pvt. Ltd. positions itself as a manufacturer of high-quality Bi-Shrinkage yarns at highest efficiency

Barmag's single-stage Bi-Shrinkage concept impresses with yarn quality and efficiency

Remscheid, November 12, 2026 – The Indian company Garden Silk Mills Pvt. Ltd. adopts Barmag's new single-stage Bi-Shrinkage Yarn (BSY) spinning concept based on WINGS FDY PLUS eco. The systems, which have been in operation for about a year, deliver excellent yarn quality with very good productivity.

Due to the increasing demand for specialty yarns, particularly in the Indian market, Garden Silk Mills Pvt. Ltd. retrofitted 24 positions of its WINGS FDY polyester machines last year for the production of Bi-Shrinkage yarns. The decisive factor for the investment was Barmag's single-stage process: Based on the WINGS FDY PLUS eco, this concept enables BSY production of up to 16 yarn ends at much higher speeds than two-stage BSY-concepts.

Maximum flexibility through fully separated processes

The solution developed by Barmag stands out thanks to its special process flow, which allows for independent adjustment of yarn properties. After drawing, POY and FDY yarns are plied, intermingled, and finally wound onto a bobbin as BSY. The special yarn path and low friction ensure high yarn evenness and high-quality tangle knots. Incidentally, the WINGS' characteristic simple setup ensures low waste rates even in the BSY process. Shashi Sharma, Chief Operating Officer and Group Project Head at Garden Silk Mills Pvt. Ltd., a long-standing Barmag customer, considers the retrofit a success: "The quality of the yarn is excellent. At the same time, we benefit from the efficiency advantages of the single-stage process. This gives us clear competitive advantages in a highly competitive market."

Bi-Shrinkage yarns as an alternative to textured yarn

BSY (Bi-Shrinkage Yarn), also known as ITY, combines POY and FDY with different shrinkage characteristics to create exceptional bulk, texture and fabric handle. Barmag takes BSY production one step further: instead of separately spinning POY and FDY and combining them in a subsequent texturing process, both yarns are produced and plied together directly in a single spinning process. The different properties of the two fiber types result in a yarn that closely resembles a textured yarn. Bi-Shrinkage yarns are primarily used in the apparel and home textiles industries. Typical applications include curtains as well as chiffon, fleece, crinkle, and pleated fabrics. These specialty yarns are currently experiencing a particular boom in India.

2,607 characters, including spaces

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Caption: Based on the WINGS FDY PLUS eco, Barmag's single-stage concept enables BSY production of up to 16 yarn ends at much higher speeds than two-stage BSY-concepts.

About Barmag
Since 2026, the Swiss Rieter Group has been operating its man-made fibers business as subsidiary under the traditional name Barmag. This includes the established product brands Barmag and Neumag. As a future-oriented company, the research and development of Barmag is driven by energy-efficiency and sustainable technologies.

Barmag is one of the leading providers of manmade fibers filament spinning systems, texturing machines, BCF systems, staple fibers systems and solutions for the production of nonwovens. Together with its range of polycondensation and extrusion systems and their key components, Barmag caters to the entire manufacturing process – from the monomer all the way through to the textured yarn – and supports it with customer-oriented engineering services. The product portfolio is rounded off with automation and digital 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, Türkiye and the USA. Worldwide, Barmag – with round about 2,500 employees – has a presence in 120 countries with production, sales and distribution and service organizations. At 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 tomorrow's world.

For further information, please visit: www.barmag.com

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