BARMAG
A Subsidiary of the Rieter Group

TECHNOLOGY

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

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.

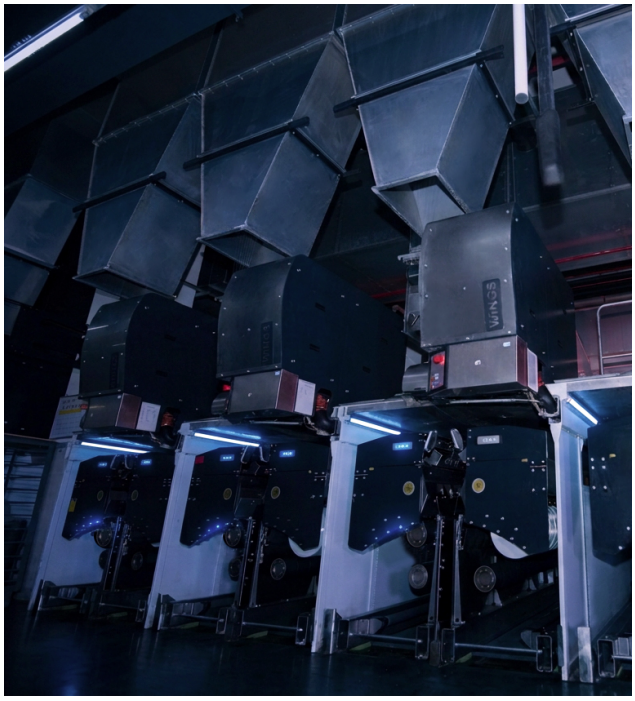
Due to the increasing demand for specialty yarns, particularly in the Indian market, Garden Silk Mills Pvt. Ltd. retrofitted 24 positions of its WINGS FDY polyester machines last year for the production of Bi-Shrinkage yarns. The decisive factor for the investment was Barmag's single-stage process: Based 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.

"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."

— Shashi Sharma, Chief Operating Officer and Group Project Head, Garden Silk Mills Pvt. Ltd.

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."



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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.