

## Powerful solutions for Indo-Bharat Rayon

Elgi is fast spinning its oil-free presence in Partially Oriented Yarn (POY), a potential substitute for cotton in the textile world.

The first Elgi-Samsung SM series of Centrifugal compressors will be installed at Shubhalakshmi Polysters Ltd in India. Located in the city of Silvassa, Gujarat, the company is one of the largest filament yarn texturisers, producing 70 tons of polyester filaments per day.

The newly designed series Centrifugal compressor eliminates the need for intake air piping and minimizes discharge air piping & also the floor space required. The state-of-the-art aerodynamic design technology allows high compression efficiency. Highly efficient impellers with wide operational turndown range, and the carbon seals ensure 100% oil-free air compression and minimal energy losses. With energy efficiency being of prime importance in texturing industry, these Centrifugal compressors will save energy as high as 10%.



The production facility at Shubhalakshmi Polysters uses the raw material – petroleum chips- that are processed to produce POY. POY is a continuous, straight and multifilament (nylon/polyster) yarn with no twists. POY goes through further processing called texturing to be ready for weaving and knitting. Compressed air plays a vital role in this process of texturing. The POY filament is subjected to stretch texturing, to make the yarn softer using dry compressed air. Since the compressed air comes in direct contact with the filament, it mandates the use of oil- free air to avoid the risk of oil contamination to the yarns. Elgi's Centrifugal compressors, with a capacity of 4000 cfm (each), would meet the company's oil-free requirements. These compressors replace a battery of reciprocating compressors supplied by other compressor manufacturers. In addition to meeting the increased air demand and reduced energy costs, the centrifugal compressors will also reduce maintenance time and expenses.

The new series compressors have a capacity to handle pressures from 2 to 10 bar(g). These are ideal to meet the critical air needs of POY and texturing plants, that require 7 bar(g) pressure for instrumentation & 3.8 bar(g) pressure for the process.

Other renowned texturisers in Silvassa like Bhilosa Textiles, Universal and JBF industries have also replaced their multiple reciprocating compressors with Elgi's centrifugal to enhance the plant's production capacity. Following its success with over 90% market share in POY sector in India, Elgi is focused to revolutionize the Fully Oriented Yarn (FOY) texturing with its efficient energy saving compressors in the near future.

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