

Soft POY with Elgi 'Turbo-master' 20% power savings in major POY texturisers



Elgi is fast spinning its presence in Partially Oriented Yarn (POY), a potential substitute for cotton in the textile world. POY is a continuous, straight and multifilament (nylon/polyster) yarn of no twists. This is subject to further processes to make it suitable for weaving or knitting into fabrics. Compressed air plays a vital role in this process of texturising.

More than 50 renowned POY texturisers in India have realized that an efficient, reliable compressed air system is a necessity in texturising for higher productivity and improved quality.

The air volume requirement of these plants is very high, in the range of 3000-6000 cfm. Earlier, the air requirement was serviced by reciprocating compressors. Following a detailed study, Elgi projected its centrifugal compressor, with their excellent power saving characteristics at high volume output, to be an economical and efficient substitute for multiple compressors in the POY texturising.

Bhilosa textiles, India's largest filament yarn texturiser, has taken delivery of Elgi's centrifugal compressors with a capacity of 8000 cfm to replace its existing reciprocating compressors.

The production facility at Bhilosa uses the raw material – petroleum chips- that are processed to produce POY. The POY filament is subjected to stretch texturising through an air treatment nozzle. The air pressure supplied to the nozzle ranges between 2.6 and 3 bar (g), but the process demands a high air volume air of 6000 cfm. The filament is slightly entangled and achieves softness using dry compressed air. Since the compressed air comes in direct contact with the filament, it mandates the use of 100% oil free air from centrifugal compressors to ensure yarn quality.

Through efficient oil-free air treatment of more filament yarns by Elgi compressors, Bhilosa has seen a substantial increase 20% savings of power costs, apart from other benefits like low maintenance and lesser man power.

Universal and JBF industries, the renowned texturisers in Silvassa, India, have also replaced thier multiple piston compressors with Elgi's centrifugal to enhance the plant's production capacity. Elgi's compressor units have achieved continuous running time through its design and improved cooling system. The aerodynamic component such as back ward leaning impellers makes it an ideal compressor to suit the extreme climatic conditions in Silvassa.

Following its success with over 90% market share in POY sector in India, Elgi is focused to revolutionise the Fully Oriented Yarn (FOY) texturising with its efficient energy saving turbo technology in the near future.

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