

Press release

Lower Energy Costs for BCF Yarn Production

Neumünster, Milan, 12.-19 November 2015 – **RoTac³ the rotating tangle unit from Oerlikon Neumag, global market and technology leader for turnkey plants for the production of BCF carpet yarn, is a highlight on booth A105 in hall 4 at ITMA 2015. Its successful launch is a further signal that energy saving and yarn quality are playing a growing role in the production of BCF carpet yarn.**

Since the market launch of RoTac³ approximately one year ago, almost 90 per cent of all S+ systems sold for BCF yarn production have been equipped with the new rotating tangle unit. The retrofitting business with the component has also started well, says Martin Rademacher, Sales Director Oerlikon Neumag: “For us, this is a signal that energy costs in BCF production are becoming ever more important.”

50 per cent less compressed air consumption

For RoTac³ makes high energy savings possible thanks to its innovative technology. In comparison to conventional tangle units, the RoTac³ technology forms the tangle knots with a pulsating instead of a continuous air current. This means that compressed air is only consumed if a tangle knot is to be formed. This is achieved with a special tangle nozzle that rotates with the yarn. Several holes are incorporated around the nozzle cover, according to the number of desired knots and the distance between them. If a hole is now positioned over the compressed air opening, an air blast is released and tangles the yarn.

Therefore tangle knots can not only be produced at defined distances and strengths. The discontinuous compressed air impulse also considerably reduces the required volume flow and compressed air consumption – by up to 50 per cent compared to conventional tangle units, depending on the yarn type. Since energy consumption is reduced as a result, RoTac³ bears the e-save label from Oerlikon Manmade Fibers for particularly energy efficient, environmentally friendly technologies.

Customers confirm improved processing quality

Given increasing process speeds and air pressures to enhance productivity in BCF production, this energy saving is a major advantage, but not the only one. The RoTac technology also eliminates tangle dropouts, which can occur repeatedly at a high process speed with conventional tangling. Last but not least, it ensures very gentle yarn guiding and reduced yarn tension as well as better process stability. This particularly supports future trends such as fine titer and sophisticated polymers.

“Many of our customers also confirm that the yarn quality for the downstream processes has improved and the corresponding process steps have been made easier“, says Martin Rademacher. At ITMA 2015, the company is thus expecting further encouragement for the successful product, which is available as a component with the three-end BCF plant S+ or can be retrofitted.

456 words

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About Oerlikon

Oerlikon (SIX: OERL) is a leading, globally-active technology group supplying growth markets with market-leading technologies and services for surface solutions, systems for manufacturing manmade fibers, transmission systems and drive solutions as well as prevacuum and high vacuum technologies and pumps and the corresponding accessories. The leading Oerlikon technologies enable customers to increase their product performance and productivity, utilize resources and energy more efficiently and make a contribution towards sustainable development. As a Swiss company with a history stretching back more than 100 years, Oerlikon and its in excess of 15,500 employees are present at more than 200 sites in 36 different countries. In 2014, sales totaled CHF 3.2 billion. The company, which invested CHF 121 million in research and development in 2014, employs more than 1,300 specialists for developing innovative and customer-oriented products and services.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers segment

With its Oerlikon Barmag and Oerlikon Neumag brands, Oerlikon Manmade Fibers segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems and artificial turf systems and – as a service provider – offers engineering solutions for the entire textile value added chain. As a future oriented company, the research and development at this division of the Oerlikon Group is driven by energy-efficiency and sustainable technologies. With the expansion of the product range to include polycondensation systems and their key components, the company now caters to the entire process – from the monomer all the way through to the textured yarn. The primary Oerlikon Barmag markets are in Asia, and – for Oerlikon Neumag – in the USA, Turkey and China. Correspondingly, Oerlikon Barmag and Oerlikon Neumag – with just under 2,500 employees – has a worldwide presence in 120 countries as part of the Oerlikon Manmade Fibers network of production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster and Chemnitz, highly-qualified engineers and technicians develop innovative and technologically-leading products for tomorrow's world.

For further information: www.oerlikon.com/manmade-fibers