

Press Release

Shanghaitex 2019

Oerlikon showed world premieres in China

Remscheid, November 26, 2019 – Oerlikon has invited all visitors to this year's Shanghaitex in China on a journey into the future of manmade fiber production. From 25 to 28 November 2019, the world market leader showed all its guests its vision of a sustainable and automated manmade fiber production at its 100 m² stand in Hall E1, D20: "Clean Technology. Smart Factory." was the motto of the future. And this was only a stone's throw away from reality at the stand. Because today Oerlikon was presenting the four ITMA Barcelona world premieres for efficient machine and plant concepts in a new, innovative industrial design. Together with numerous other innovations, all this forms the new DNA of the Oerlikon Manmade Fibers segment.

Launched to create new standards in texturing: the eAFK Evo generation of machines promises superior speeds, greater productivity and consistently high product quality, along with lower energy consumption and simpler operation vis-à-vis comparable market solutions. Oerlikon Barmag showed these wide-ranging capabilities at the trade fair with a high-end design from the new system platform. In particular, the numerous value-added features include two that are excelling with cool technology: the optimized EvoHeater and the EvoCooler, a completely newly-developed active cooling unit.

WINGS FDY is now also newly available for the polyamide 6 process. With this development, the tried-and-tested WINGS technology – to date well-known for FDY yarns from polyester manufacturing – is now also available for the challenging polyamide 6 process. This new 24-end winding concept makes the efficient production of FDY PA6 yarns a reality.

Extending the polyamide yarn production from 12 to 24 ends with DIO and WINGS FDY pays yarn producers dividends, particularly in terms of investment expenditure (CAPEX) and operating expenditure (OPEX): significant savings with regards to energy, footprint and – due to the more ergonomic design – a rather convenient string-up are among the WINGS FDY PA concept's most convincing arguments. The enclosed draw unit ensures low spin finish emissions, offering a safe working environment.

Offering swift string-up, the optimized yarn path of the tried-and tested WINGS FDY PET system is united with the high relaxing performance of conventional polyamide systems to create a completely new concept. The 24-end WINGS FDY PA hence profitably combines the benefits of both processes. The result: outstanding yarn properties, excellent dyeability, optimum process performance and high full package rate. A perfect package build guarantees excellent further processing properties in the downstream processes. With a 116-mm stroke, this winder makes high package weights possible, therefore delivering added-value yarns for further processing. As a consequence, yarn manufacturers can give themselves a competitive advantage in the marketplace

The BCF S8 production plant promises carpet yarn manufacturers greater punching power within a fiercelycontended market. Superlative spinning speeds, up to 700 filaments per yarn end, finer titers down to 2.5 dpf – the performance data and technological finesse of the new system already made an impression at its unveiling at the German DOMOTEX trade fair in January. At Shanghaitex 2019 the

monocolor and the tricolor version of the BCF S8 was unveiled.

Polyester and its applications are omnipresent in our everyday lives. Whether as beverage bottles, film packaging, high-tech sports shirts or safety belts, polyester excels with its excellent mechanical properties and inexpensive production. However, the constantly rising demand requires responsible handling of global resources. For this reason, it is not only 'virgin polyester' generated from crude oil that is exclusively the raw material for manufacturing, so too is polyester recycled from post-production and post-consumer waste. Processing production waste also helps cut raw material, disposal and transport costs, hence increasing efficiency.

With the new VacuFil® recycling series, Oerlikon Barmag in cooperation with its subsidiary company BBEngineering is offering a solution catering to a "clean technology" production philosophy. Decades of experience in the areas of extrusion, filtration and spinning systems have been bundled into a new, innovative core component – the vacuum filter. It unites gentle largescale filtration and controlled intrinsic-viscosity build-up for consistently outstanding melt quality. The vacuum unit – located adjacent to the filter – swiftly and reliably removes volatile contamination (spinning oil, etc.). The excellent degasification performance additionally relieves the energy-intensive predrying process.

The modular structure of the VacuFil® range offers numerous possibilities for the process guiding system. Whether as a standalone solution with downstream granulation or as an inline variant with 3DD additive feed – customer requirements can be optimally catered for with various system configurations.



Caption: 3 Pictures
Oerlikon at the Shanghaitex 2019

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About Oerlikon

Oerlikon (SIX: OERL) develops modern materials, systems and surface technologies and provides specialized services aimed at securing high-performance products and systems with long lifespans for customers. Supported by its technological core competencies and its strong financial footing, the corpora-



tion continues its medium-term growth plan by implementing three strategic factors: focusing on attractive growth markets, ensuring structural growth and expanding through targeted M&A activities. Oerlikon is a globally-leading technology and engineering corporation, operating its business in two segments (Surface Solutions and Manmade Fibers) and employing around 10,500 members of staff at 175 sites in 37 countries worldwide. In 2018, Oerlikon generated sales of CHF 2.6 billion and invested around CHF 120 million in research & development.

For further information: www.oerlikon.com

About Oerlikon Segment Manmade Fibers

With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, Oerlikon Manmade Fibers segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems, solutions for the production of nonwovens 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 (e-save). With the supply of continuous polycondensation and extrusion systems and their key components, the company caters to the entire process – from the monomer all the way through to the textured yarn. The product portfolio is rounded off by automation and industry 4.0 solutions. The primary markets for the products of Oerlikon Barmag are in Asia, especially in China, India and Turkey, and – for those of Oerlikon Neumag and Oerlikon Nonwoven – in the USA, Asia, Turkey and Europe. Worldwide, the segment – with just under 3,000 employees – has a presence in 120 countries of production, sales and distribution and service organizations. At the R&D 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: www.oerlikon.com/manmade-fibers