

Press release

Oerlikon Neumag presents world innovation at the DOMOTEX in Hanover, Germany

Innovative BCF S8 platform technology opens up new carpet yarn industry markets for Oerlikon Neumag customers

Neumünster/Hanover, January 11, 2019 – world premiere at the DOMOTEX World Trade Fair for Carpets and Floor Coverings in Hanover: between January 11 bis 14, 2019, Oerlikon Neumag will be showcasing its innovative new development, the BCF S8, to a wide audience for the very first time in Hall 11, Stand B36. Whether commodities or niche products – the new BCF S8 platform technology offers manufacturers of BCF carpet yarns decisive arguments for responding to constantly rising cost pressures and the trend for greater efficiency and quality in fiercely-competitive markets. World record: the system achieves never-seen-before spinning speeds and is able to simultaneously spin up to 700 filaments and produce fine titers of up to 2.5 dpf. This superlative performance is guaranteed by numerous individual innovations in the new platform and, for the first time, also in a new human-machine interface (HMI)-based control system, which opens the door to the digital age of smart carpet yarn manufacturing wide. At the ITMA ASIA 2018, the Oerlikon Manmade Fibers segment had already announced that it would be presenting revolutionary solutions in 2019 – both in hardware and software. And the DOMOTEX marks only the start.

According to manufacturer information, the new BCF S8 is the most efficient Oerlikon Neumag BCF system of all times. “We have succeeded in achieving a new level of greater productivity and even broader product diversity. These allow our clientèle to better cater to changing market requirements and achieve a competitive edge in tough market conditions”, explains Martin Rademacher, Vice President Sales Oerlikon Neumag. As a pre-taste, the machine specialists from Neumünster are serving up performance figures and results from comprehensive trials conducted at their own BCF technology center as well as from two pilot systems which have been tried and tested within the market for months now.

BCF S8 performance in numbers

With up to 700 potential filaments per yarn end, the BCF S8 is raising the benchmark considerably compared to the Oerlikon Neumag S+ BCF system (400 filaments) that has dominated the global market to date. Oerlikon Neumag guarantees fine titers of up to 2.5 dpf. Furthermore, the process speed is higher than ever before – 3,700 m/min (winder speed). This permits throughputs of up to 15 percent greater compared to predecessor technologies. Overall, system efficiency is 99 percent – almost unbeatable. True to the Oerlikon Segments Manmade Fibers segment e-save philosophy, energy savings of up to 5 percent per kilogram of yarn are achievable.

BCF S8 innovations – from straight yarn paths to large cooling drums

This comprehensive progress has been achieved with numerous smart innovations. To this end, one key element above all has been optimized. The yarn path from the spinning system to the new, large cooling drum has now been almost completely straightened. This yarn path, unique to the BCF market to date, ensures that the individual filaments are subjected to minimum friction, hence once again considerably reducing yarn breaks and optimizing the overall production process. Especially notewor-

thy here are the, for the first time, straight yarn inlet in the texturing head – guaranteeing superior yarn quality.

And the considerably reduced distance between the heating godet duo and the texturing head also has a positive impact on the texturing process. It ensures a more even twist to the yarn and reduces the compressed air consumption. Furthermore, the texturing chambers can be removed individually, which additionally shortens servicing times. The now closed units also provide the best possible protection for the texturing jets and lamellar chambers.

The 800-mm diameter cooling drum optimally and gently cools the filaments. And this has a positive influence on the yarn quality. The new cooling drum is now equipped with a V groove for all polymers (PET, PA6 and PP) as standard.

The RoTac³ tangling unit, already established within the market, once again reduces the compressed air consumption by around 50%, while the newly-developed Witrax III-37 winder achieves production process speeds of 3,700 m/min.

First intuitively-operable human-machine interface (HMI)

The new BCF S8 is the first Oerlikon Manmade Fibers segment system equipped with the innovative human-machine interface (HMI) for intelligent controlling and monitoring. In this case, the interface between man and machine has been oriented on the daily requirements of users in BCF production. With its new 'look and feel', it supports intuitive operation and offers direct access to important information as well as actual and target values at each take-up position by means of a touch screen. A completely new 'alarm philosophy' also simplifies troubleshooting and malfunction analysis. "This smart HMI system is a logical step in the digitalization of our products", explains Dr. Friedrich Lennemann, Vice President R&D Oerlikon Neumag.

Approx. 3,738 characters including spaces



Caption: Oerlikon Neumag BCF S8



For further information:

Claudia Henkel
Marketing, Corporate Communications
& Public Affairs
Tel. +49 4321 305 105
Fax +49 4321 305 212
claudia.henkel@oerlikon.com

André Wissenberg
Marketing, Corporate Communications
& Public Affairs
Tel. +49 2191 67 2331
Fax +49 2191 67 70 1313
andre.wissenberg@oerlikon.com

About Oerlikon

Oerlikon (SIX: OERL) engineers materials, equipment and surfaces and provides expert services to enable customers to have high-performance products and systems with extended lifespans. Drawing on its key technological competencies and strong financial foundation, the Group is sustaining mid-term growth by executing three strategic drivers: addressing attractive growth markets, securing structural growth, and expanding through targeted mergers and acquisitions. A leading global technology and engineering Group, Oerlikon operates its business in two segments – Surface Solutions and Manmade Fibers – and has a global footprint of over 9 500 employees at 171 locations in 37 countries. In 2017, Oerlikon generated CHF 2.1 billion in restated sales and invested around CHF 100 million in R&D.

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, 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 – 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