

## Press Release

Oerlikon Manmade Fibers Segment at the Techtextil Frankfurt, Germany 2015

# Innovative industrial solutions for technical textiles in growth markets

**Remscheid, 27 March 2015 – At this year's Techtextil, taking place in Frankfurt between May 4 and 7, the Manmade Fibers Segment of the Swiss Oerlikon Group will be placing the information focus on safety and environment. The solution provider with its two brands – Oerlikon Barmag and Oerlikon Neumag – offers numerous technologies for manufacturing industrial yarns, fibers and nonwovens. The latest developments among other things for recycling will be presented at the 90 m<sup>2</sup> booth in hall 3, B06, in a Virtual Showroom in 3D.**

Automobile tires, safety belts, airbags, geotextiles, roofing membranes, guy ropes for drilling platforms, conveyor belts, sails and fishing nets – all these are manufactured using industrial yarns and nonwovens. Even this selection of applications showcases the diversity of what is possible in potentially the most exciting area within the textile sector.

### **Systems for industrial filament yarn**

Industrial yarns are considered to be the ultimate discipline in filament manufacturing. High tenacities, extreme dimensional stability, tremendous durability along with a large range of titers – although the demanding production process promises high-margins, it is however also simultaneously a huge challenge both for the yarn manufacturer and the systems constructor.

With a production window of between 50 and 12,000 den per filament, Oerlikon Barmag industrial yarn systems cover an extremely-wide titer range. Depending on the application and the required yarn characteristics, our systems produce 'strong' yarns for all applications: from high-tenacity high-modulus yarn for safety belts, HMLS yarns for tire cord all the way through to low and ultra-low shrinkage yarns for tarpaulins.

### **Tape and monofilament systems**

Among other things, monofilament yarns and tapes are being deployed as agricultural textiles such as baler twine yarns and wind-protection netting, as bulk goods sacks, carpet backing and geotextiles. Oerlikon Barmag supplies systems for woven, fibrillated polypropylene tapes with the highest tenacities – in excess of 7.5 grams/den – available on the market, which can also be used in road construction.

### **Staple fiber systems for specialty applications**

Synthetic staple fibers are not only used in the manufacture of textiles, these diverse manmade fibers are also being deployed in industrial applications. Predominantly, polyester and polypropylene fibers are processed to create carded nonwovens for geotextiles, insulating materials, filters and similar products. In addition to many further special industrial applications, shortcut fibers for reinforcing concrete, cement and plastics are another area of application for synthetic staple fibers. Oerlikon Neumag



offers systems for manufacturing monofilament and bicomponent fibers in batch sizes of 5 tons per day.

### **Nonwoven systems for industrial applications**

A completely different range of textile materials is also perfect for industrial applications: namely nonwovens. The market for industrial nonwovens is expanding at breathtaking speeds of more than 9% per annum. Increasing demand for these materials, particularly in emerging economies, is generating tremendous opportunities for manufacturers. Nonwovens expert Oerlikon Neumag covers the most important applications with meltblown lines for industrial filters and spunbond lines for geotextiles, underlay roofing membranes and bitumen roofing membranes.

### **For more information:**

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### **About Oerlikon**

Oerlikon (SIX: OERL) is a leading global technology Group, focusing on providing market-leading technologies and services for surface solutions, manmade fibers manufacturing, drive systems and vacuum pumps and components in growth markets. These cutting-edge technologies benefit customers by improving their product performance, productivity, efficient use of energy and resources, and also by contributing to a more sustainable environment. A Swiss company with over 100 years of tradition, Oerlikon has a global footprint of over 15 500 employees at more than 200 locations in 36 countries and sales of CHF 3.2 billion in 2014. The company invested CHF 121 million in R&D in 2014 and has over 1 300 specialists developing innovative and customer-oriented products and services.

For further information: [www.oerlikon.com](http://www.oerlikon.com)

### **About Oerlikon Manmade Fibers Segment**

Oerlikon Manmade Fibers Segment with the product brands Oerlikon Barmag and Oerlikon Neumag is the world market leader for filament spinning systems used for manufacturing manmade fibers, texturing machines, BCF systems, staple fiber spinning systems and artificial turf systems and – as an engineering services provider – offers solutions along the entire textile value added chain. As a future oriented company, the Oerlikon Group segment's research and development 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, with Oerlikon Neumag's main markets in the US, Turkey and China. Correspondingly, the companies – with almost 2 500 employees – have 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](http://www.oerlikon.com/manmade-fibers).