

**Press release**

**Oerlikon Manmade Fibers at the ITMA ASIA + CITME 2014**

## **Carbon fibers on the advance: WinTrax winders and spinning pumps for industrial production**

**Chemnitz, Remscheid, Shanghai, June 16, 2014 – carbon fibers as backing material for compound materials are emerging from their niche. According to estimates from the Victorian Centre for Advanced Materials Manufacturing (VCAMM), the demand for carbon fibers will approximately double by 2017.**

Only recently, the China Ministry of Industrial & Information Technology published a plan for industrializing the manufacture of carbon fibers in China. According to this plan, the output of the top 5 manufacturers in China is to increase by 70% by 2020. Currently, Japan and the USA are the main suppliers of carbon fibers. Within the context of the Chinese trade fair for textile machines and systems, Oerlikon Barmag is also focusing on this very promising market with an information showcase.

### **Producing carbon fibers economically**

With the automatic WinTrax A-2cop carbon fiber winder, the Chemnitz-based subsidiary of Oerlikon Barmag has a winder in its portfolio that guarantees the economical production of carbon fibers of the very highest quality. The two-cop winder produces packages with perfect package build, identical running length and diameters of up to 310 mm. The resulting higher package weights shorten the tooling times and hence considerably reduce the time and costs for manufacturing compound materials. As a result of the identical running length of all packages, waste is virtually completely eliminated.

Oerlikon Barmag offers the solutions – for a large variety of mixing and metering tasks when processing plastics – which actually enable economical production. Manufacturers like to deploy the spinning pumps – renowned for their precision – for spinning the composite base materials polyacrylonitrile (PAN) and aramid. The majority of common high-performance carbon fibers are today manufactured from polyacrylonitrile. The most significant feature of these fibers is their high modulus with simultaneously very low weight. This modern material is meanwhile being deployed in many sectors of industry; for instance, in medical technology, in the aerospace industry, in the wind power industry and in the automobile industry, among others.

342 words

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## About Oerlikon

Oerlikon (SIX: OERL) is a leading high-tech industrial group specializing in machine and plant engineering. The Company is a provider of innovative industrial solutions and cutting-edge technologies for manmade fibers manufacturing, drive systems, vacuum, surface solutions and advanced nano-technology. A Swiss company with a tradition going back over 100 years, Oerlikon is a global player with around 15 500 employees at over 170 locations in 35 countries and pro-forma sales of CHF 3.6 billion in 2013. The Company invested in 2013 CHF 146 million in R&D (pro-forma), with over 1 200 specialists working on future products and services. In most areas, the operative businesses rank either first or second in their respective global markets.

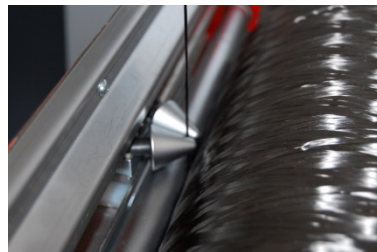
## About Oerlikon Manmade Fibers

Oerlikon Manmade Fibers 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 informationen: [www.oerlikon.com/manmade-fibers](http://www.oerlikon.com/manmade-fibers).



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