

Press Release

Oerlikon Barmag at JEC 2015

Shaping the future with modern materials

Chemnitz, Remscheid, 04 February 2015 – Different components for the production of composite materials are the focus of the presentation by Oerlikon Barmag at this year's JEC in Paris. From 10 to 12 March, at the trade fair for the composite materials industry, the machine and plant engineering company will be providing information about its latest and established products in the areas of pump construction and on winders for special yarns (stand number: P66 / Hall 7.2).

Innovative technologies for innovative fibers

For a large variety of mixing and dosing tasks in fiber and plastics processing, Oerlikon Barmag offers the solutions, which actually enable economical production. Its spinning pumps known for their precision are often used for spinning the composite base materials polyacrylonitrile (PAN) and aramid. A large share of today's common high-performance carbon fibers are now made of polyacrylonitrile. An essential feature of these fibers is their high tensile strength despite their very low weight. This modern material is in use in a variety of industries today, including the aerospace industry, medical technology, wind energy, the automotive industry, etc. High-strength multifilament yarn made of polypropylene (10g/den) is also the component of preference in composite materials. An extrusion plant for the production of these special fibers is part of the product portfolio of Oerlikon Barmag.

With WinTrax, Oerlikon Barmag has also developed a winder specifically for use in the production of carbon fibers. The winder – which has been designed both for one- and two-cop systems - combines economically efficient production of highest-quality carbon fibers with perfect package build-up and identical running length. Both small and large package weights up to 20 kg can be realised. The higher package weights reduce set-up times, reducing the cost of composite production considerably. The identical running length of all packages trims waste to virtually zero percent.

Special yarns of aramids are characterized by their extremely high tenacity, high breaking elongation, good vibration absorption and resistance to acids and alkalis. They are also very heat- and fire-resistant. Not only are these yarns used in special applications, but they also call for very special processing. With WinOro, the automatic monofilament or two-ply precision winder, Oerlikon Barmag has the perfect winder for these high-performance fibers. Gentle yarn treatment and perfect package build-up, energy efficiency and a high degree of cost effectiveness make it the perfect choice for demanding special yarns.

When casting the required composite matrix of composite materials (e.g. resin + hardener), on the other hand, high-precision metering pumps by Oerlikon Barmag are the instrument of choice. They are characterized not only by exact metering but also by their durability, ease of maintenance and operability.

450 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 nanotechnology. A Swiss company with a tradition going back over 100 years, Oerlikon is a global player with around 16 000 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 2013), with over 1200 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 information: www.oerlikon.com/manmade-fibers