

Oerlikon Polymer Processing Solutions at the Techtexil India 2023

## High-quality fiber and yarn production solutions for highest demands in technical textiles

**Remscheid, Germany / Mumbai, India – September 7, 2023 – At this year’s Techtexil India, the Polymer Processing Solutions Division of the Swiss Oerlikon group will be presenting the trade audience with new applications, special processes and sustainable solutions focusing on the production of industrial textiles. Between September 9 and 12, the discussions at Jio World Convention Centre (JWCC), Mumbai, Pavilion 3, H32 will be concentrating on airbags, seat belts, tire cord, geotextiles, filter nonwovens and their diverse applications.**

### More polyester for airbags

Airbags have become an integral part of our everyday automotive lives. The yarns used in them are made predominantly from polyamide. As a result of increasingly diverse airbag applications and also the increasing size of the systems used, polyester is today used as well, depending on the application requirements and cost-benefit considerations. Against this background, the Oerlikon Barmag technologies make an invaluable contribution. In addition to high productivity and low energy consumption, they particularly excel in terms of their stable production processes. Furthermore, they comply with every high quality standard for airbags, which – as in the case of virtually all other textile products used in vehicle construction – must provide the highest level of safety for vehicle occupants. And all this without any loss of function in any climate and anywhere in the world for the lifetime of the vehicle.

### Buckle up!

Seat belts play a decisive role in protecting vehicle occupants. They have to withstand tensile forces in excess of three tons and simultaneously stretch in a controlled manner in emergencies in order to reduce the load in the event of impact. A seat belt comprises approximately 300 filament yarns, whose individual, high-tenacity yarn threads are spun from around 100 individual filaments. “With our unique, patented Single Filament Layer Technology, we offer a sophisticated and simultaneously gentle high-tenacity (HT) yarn process for manufacturing these lifesavers and other applications made from industrial yarn”, explains André Wissenberg, Head of Marketing.

### Invisible, but essential – road reinforcement using geotextiles

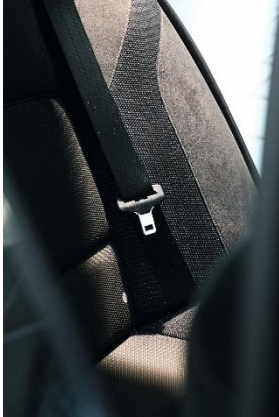
But it not just inside vehicles, but also under them, that industrial yarns reveal their strengths. Low stretch, ultra-high tenacity, high rigidity – industrial yarns offer outstanding properties for the demanding tasks carried out by geotextiles; for instance, as geogrids in the base course system under asphalt. Normally, geotextiles have extremely high yarn titers of up to 24,000 denier. Oerlikon Barmag system concepts simultaneously manufacture three filament yarns of 6,000 denier each. Due to the high spinning titers, fewer yarns can be plied together to the required geo-yarn titer in a more cost- and energy-efficient manner.

### hycuTEC – technological quantum leap for filter media

In the case of its hycuTEC hydro-charging solution, Oerlikon Neumag offers a new technology for charging nonwovens that increases filter efficiency to more than 99.99%. For meltblown producers, this means material savings of 30% with significantly superior filter performance. For end users, the consequence is noticeably improved comfort resulting from significantly reduced breathing resistance. With its considerably lower water and energy consumption, this new development is also a future-proof, sustainable technology.

The organizer Messe Frankfurt India is honoured to receive once again the much valued support from the Ministry of Textiles, Government of India for the 9th edition of the show. This support from the Ministry of textiles further demonstrates the huge emphasis laid for this key sector in boosting the

economy of the country given the enormous scope to grow rapidly apart from the remarkable opportunities present to do business in India.



**Caption:** In accidents, the number one lifesaver is not the vehicle's body work or the airbag, but the seat belt. It holds the vehicle occupants firmly in position and thus enables other protective technologies to unfold their full function.

## **About Oerlikon Polymer Processing Solutions Division**

Oerlikon is a leading provider of comprehensive polymer processing plant solutions and high-precision flow control component equipment. The division provides polycondensation and extrusion lines, manmade fiber filament spinning solutions, texturing machines, BCF and staple fiber lines as well as nonwoven production systems. It also develops and produces advanced and innovative hot runner systems and multi-cavity solutions for the injection molding industry. Its hot runner solutions serve business sectors, including automotive, logistics, environmental, industrial applications, consumer goods, beauty and personal care and medical. Moreover, Oerlikon offers customized gear metering pumps for the textile, automotive, chemical, dyes and lacquers industries. Its engineering competence leads to sustainable and energy-efficient solutions for the entire polymer processing value chain with a circular economy approach.

Oerlikon Polymer Processing Solutions Division serves customers through its technology brands – Oerlikon Barmag, Oerlikon Neumag, Oerlikon Nonwoven and Oerlikon HRSflow – in around 120 countries with production, sales, distribution and service organizations.

The division is part of the publicly listed Oerlikon Group, headquartered in Switzerland, which has more than 13 000 employees and generated sales of CHF 2.9 billion in 2022.

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

### **Contact:**

André Wissenberg  
Marketing, Corporate Communications  
& Public Affairs  
Tel. +49 2191 67 2331  
Fax +49 2191 67 1313  
[andre.wissenberg@oerlikon.com](mailto:andre.wissenberg@oerlikon.com)