

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 mono- and bicomponent fibers in plant sizes from 5 tons per day upwards.



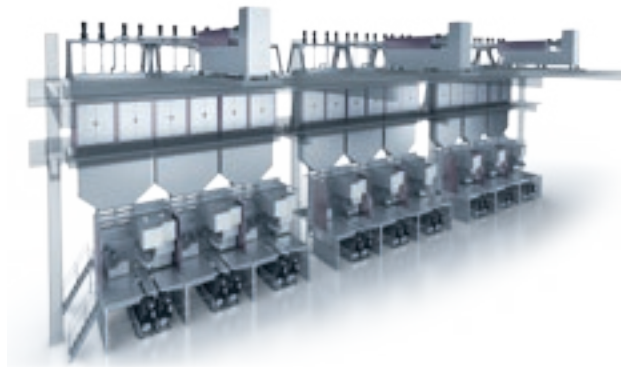
Synthetic Staple Fiber Solutions

- Geotextiles
- Insulating materials
- Filters
- Shortcut fibers for reinforcing concrete, cement and plastics
- and other technical applications

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.



Industrial Yarn Solutions

- Tirecord
- Safety belts
- Airbags
- Geotextiles
- Guy ropes
- Sails
- Fishing nets
- and other technical applications

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Innovative industrial solutions for technical textiles in growth markets

functional wear

energy

electronics

transportation

infrastructure

food

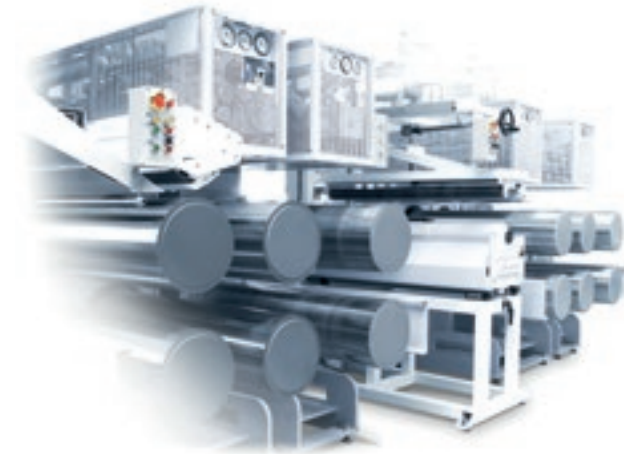
Oerlikon Manmade Fibers Segment with its brands Oerlikon Barmag and Oerlikon Neumag offers numerous technologies for manufacturing industrial yarns, fibers and nonwovens.

Those form the basis for almost all technical textiles within growth markets like electronics, energy, food, functional wear, infrastructure and transportation.

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, fibers and nonwovens. Even this selection of applications showcases the diversity of what is possible in potentially the most exciting area within the textile sector.

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.



Tape and Monofilament Solutions

- Agricultural textiles
- Baler twine yarns
- Wind-protection netting
- Bulk goods sacks
- Carpet backing
- Geotextiles
- Conveyor belts
- and other technical applications

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.



Technical Nonwovens Solutions

- Geotextiles
- Industrial filters
- Underlay roofing membranes
- Bitumen roofing membranes
- and other technical applications

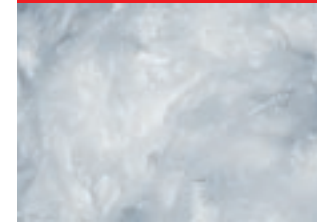
Industrial Yarn Solutions



Technical Nonwovens Solutions



Synthetic Staple Fiber Solutions



Tape and Monofilament Solutions

