

Press Release

Godet coating as customer service

The positive aspects of orange peel skin

Shanghai, China, October 15, 2018 – The quality of the manufactured yarns is also determined by the surfaces of all components coming into contact with the yarn – such as godet jackets, for example. It is here that Oerlikon Barmag provides support with special repair coatings and – often even more important – know-how of how these are deployed.

Depending on the process, yarns also acquire their properties through accurately-defined godet and separator roll temperatures and running speeds. Furthermore, this requires a defined, yarn-friendly surface in order to ensure there is no damage to the filaments. For this, the components in all newly-sold machines come with a plasma chrome-oxide coating as standard. But other coatings are also possible. “In the case of plasma spraying, the aim is to create a so-called orange peel skin with a defined layout of indentations and supporting surfaces. What may sound negative in other contexts can have a positive impact on the yarn quality here”, explains Marcus Köhler, Customer Support Service Manager at Oerlikon Barmag.

Although the surfaces of such coatings may be precisely tailored to the respective processes and products, they do however deteriorate sooner or later – depending on the polymers, spinning processes and process speeds in question. And aggressive alkali cleaning agents can soften the coating over time. To this end, the result can be under-surface corrosion with blistering, which may cause flaking in the worst case.

In such situations, Oerlikon Barmag offers repair coatings, for which it has been collaborating with surface specialist Oerlikon Metco for more than 30 years now. The affiliate has a presence in the primary Oerlikon Barmag markets across the globe. “Together, we restore the original surfaces with all the required tolerances. Depending on the customer request and market requirements, we can also add different qualities or surfaces – for example, hard plasma coatings”, states Marcus Köhler.

Whichever coating solution is chosen – it is important that this is implemented in good time, because it is not just the yarn quality that suffers if not. Faulty surfaces are also associated with higher yarn break rates and more waste per ton of finished yarn. And because wear is usually a slow, gradual process, the reasons for fluctuating or slowly-deteriorating production quality initially often remain unidentified.

This is when Oerlikon Barmag Service can provide decisive and invaluable know-how. “Our experts have the necessary experience and specialized measurement devices to identify and assess wear. They know which surface profile with which roughness depth each godet requires”, explains Marcus Köhler. Here, it becomes clear that there can be many error sources. To this end, the yarn requires different surfaces depending on its position within the production process. If this is not right in the respective position, this will also adversely affect the yarn quality with, for instance, differing diameters or insufficiently balanced jackets and units.

Oerlikon Barmag is able to provide service life guarantees for its repair-coated surfaces – although only if the company's own chemical godet cleaner is used. The service also includes the alignment and calibration of the components. And it is particularly popular among customers: to date, Oerlikon Barmag has repair-coated around 4,000 godets – without any subsequent client complaints.

533 words



Caption:
Godet or groove roller shells can benefit from a repair coating.

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About Oerlikon

Oerlikon (SIX: OERL) engineers materials, equipment and surfaces and provides expert services to enable customers to have high-performance products and systems with extended lifespans. Drawing on its key technological competencies and strong financial foundation, the Group is sustaining mid-term growth by executing three strategic drivers: addressing attractive growth markets, securing structural growth, and expanding through targeted mergers and acquisitions. A leading global technology and engineering Group, Oerlikon operates its business in two Segments – Surface Solutions and Manmade Fibers – and has a global footprint of over 9 500 employees at 171 locations in 37 coun-

tries. In 2017, Oerlikon generated CHF 2.1 billion in restated sales and invested around CHF 100 million in R&D.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers segment

With its Oerlikon Barmag and Oerlikon Neumag brands, Oerlikon Manmade Fibers Segment is the world market leader for manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems, solutions for the production of nonwovens and – as a service provider – offers engineering solutions for the entire textile value added chain. As a future oriented company, the research and development at this division of the Oerlikon Group is driven by energy-efficiency and sustainable technologies (e-save). With the continuous polycondensation and extrusion line systems and their key components, the company caters to the entire process with automated and digitally networked Industry 4.0 solutions – from the monomer all the way through to the textured yarn. The primary markets for the product portfolio of Oerlikon Barmag are in Asia, especially in China, India and Turkey, and – for those of Oerlikon Neumag – in the USA, Asia, Turkey and Europe. Worldwide, the segment – with just under 3,000 employees – has a presence in 120 countries of production, sales and distribution and service organizations. At the R&D centers in Remscheid, Neumünster (Germany) and Suzhou (China), highly-qualified engineers, technologists and technicians develop innovative and technologically-leading products for tomorrow's world.

For further information: www.oerlikon.com/manmade-fibers