

Press Release

Automation for retrofitting

Wiping robots increase production efficiency

Remscheid, October 1, 2020 – retrofitting a wiping robot to spinning systems is well worthwhile. This is confirmed by the experiences of those customers who have already installed the wiping robot. Oerlikon Barmag wiping robots have been cleaning spin packs at filament yarn manufacturing facilities in China and India for several months now, increasing efficiency considerably.

Regular wiping of the spin packs is important for process stability and yarn quality. These can be positively influenced using wiping robots, because – as confirmed by data acquisition and analysis at the respective manufacturing facilities – the yarn break rate can be reduced by up to 30% by automating the wiping process. And the yarn break rate has a direct impact on the key production figures; to this end, a considerable reduction translates into pure profit for yarn manufacturers.

Can also be retrofitted to existing systems

The Oerlikon Barmag wiping robot can be retrofitted to numerous spinning plants. Suspended from a track system mounted on the ceiling, the system automatically and autonomously targets the individual positions in accordance with the scheduled wiping cycles. In addition to the scheduled wiping processes, there are also events that cannot be planned or that are not immediately visible. Depending on the degree of integration into Oerlikon Manmade Fibers Smart Factory solutions, the wiping robot is able to identify issues such as yarn breaks or parallel wiping processes and to independently offer solutions.

The wiping robot operates in a cross-line manner. Here, the wiping quality remains constant 24/7. The high wiping quality has a positive influence on both the stability of the overall process and on the yarn quality. The time saved between cleaning cycles is a further advantage: using the robots, the interval between two wiping processes can be extended by up to 25%. The considerable increase in the spinning process efficiency achieved by the wiping robot also has a positive impact on margins. For example, one customer deploying the wiping robot was able to reduce its production costs for the same yarn by more than 3%.



Caption: Automating the wiping process can reduce the yarn break rate by up to 30%.

For further information:

Susanne Beyer
Marketing, Corporate Communications
& Public Affairs
Tel. +49 2191 67 1526
Fax +49 2191 67 1313
susanne.beyer@oerlikon.com

André Wissenberg
Marketing, Corporate Communications
& Public Affairs
Tel. +49 2191 67 2331
Fax +49 2191 67 1313
andre.wissenberg@oerlikon.com

About Oerlikon

Oerlikon (SIX: OERL) develops modern materials, systems and surface technologies and provides specialized services aimed at securing high-performance products and systems with long lifespans for customers. Supported by its technological core competencies and its strong financial footing, the corporation continues its medium-term growth plan by implementing three strategic factors: focusing on attractive growth markets, ensuring structural growth and expanding through targeted M&A activities. Oerlikon is a globally-leading technology and engineering corporation, operating its business in two segments (Surface Solutions and Manmade Fibers) and employing around 11,100 members of staff at 182 sites in 37 countries worldwide. In 2019, Oerlikon generated sales of CHF 2.6 billion and invested more than CHF 120 million in research & development.

For further information: www.oerlikon.com

About the Oerlikon Manmade Fibers segment

With its Oerlikon Barmag, Oerlikon Neumag and Oerlikon Nonwoven brands, the Oerlikon Manmade Fibers segment is one of the leading providers of manmade fiber filament spinning systems, texturing machines, BCF systems, staple fiber systems and 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 its range of polycondensation and extrusion systems and their key components, the company caters to the entire manufacturing process – from the monomer all the way through to the textured yarn. The product portfolio is rounded off with automation and Industrie 4.0 solutions.

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 and Oerlikon Nonwoven – in the USA, Asia, Turkey



and Europe. Worldwide, the segment – with just under 3,000 employees – has a presence in 120 countries with 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-fiber