

WINGS HD: manufacture of high-titer products using the POY and DTY process optimized

Longer parking times for greater efficiency

Remscheid, February 16, 2023 – since 2018, Oerlikon Barmag has been offering the market's only currently available concept for high-end home textile applications using the POY and DTY process. The spinning concept with the WINGS HD winding unit in conjunction with an automatic eAFK Big V Multispindle texturing machine manufactures excellent-quality high-titer yarns with maximum machine efficiency.

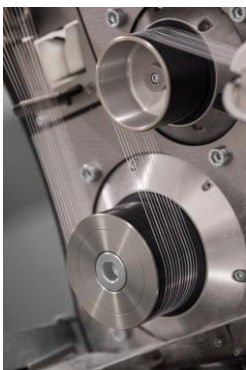
“We have correspondingly modified WINGS HD in order to once again better align the increased requirements of these special yarns to the spinning process and make everyday production even simpler for our customers”, comments Stephan Faulstich, POY Process Technology Manager. The parking times are extremely short when winding high titers. We have increased the parking times by up to three times in the case of the new WINGS HD models. To this end, the parking time for a 300d/384f yarn, for example, has been increased from a standard 6.5 min. to 15.7 min. – and, in the case of a 400d/192f yarn, from 4.3 min. to 10.3 min. This makes the doffing process more even, hence increasing doffing reliability.

At the same time, the draw unit now has a more flexible design, meaning that two-godet operation is also possible in the case of products with low overall titers. This has a positive impact on the winding unit's energy consumption.

WINGS HD – superb efficiency and functionality

12 POY packages of up to 600d/576f (final) are produced in the spinning process using WINGS HD 1800. This is made possible as a result of an additional godet, which ensures that the high yarn tensions developing in the process are reduced to the yarn tensions common in the case of the winding process to date. At the same time, the newly-developed suction unit with the accompanying yarn cutting device (yarn collecting system) ensures – both during string-up and in the event of a yarn break – reliable handling of the yarn with an overall titer of 7,200 den (final).

The concept's decisive benefit: whereas DTY yarns up to 1,200 den and with up to 784 filaments have in the past, as standard, been plied from four POY 300d/192f bobbins using DTY machines, high titers can also be manufactured directly using the WINGS HD take-up machine. And combining the WINGS HD and the eAFK Big V is ideal, as this allows all available winding positions to be utilized during texturing.



Caption: Superbly suited to the efficient production of high-titer yarns: the Oerlikon Barmag WINGS HD with extended parking time.



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 and nonwoven production systems. Its engineering competence leads to sustainable and energy-efficient solutions for the entire textile value added chain with a circular economy approach. Moreover, Oerlikon develops and produces advanced and innovative hot runner systems for the injection molding industry as well as customized gear metering pumps for the textile, automotive, chemical, dyes and lacquers industries.

The 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 12 000 employees and generated CHF 2.65 billion in revenue in 2021.

For further information: www.oerlikon.com/polymer-processing.

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