

Oerlikon Balzers at K 2025: Sustainable High-Performance Coatings for Reliable Polymer Processing

Balzers, Liechtenstein / Düsseldorf, Germany – August 21, 2025 – **At K 2025, the leading international trade fair for plastics and rubber, Oerlikon Balzers will showcase advanced surface solutions designed to enhance reliability and efficiency in polymer processing. The focus is on sustainable coatings that improve tool performance and service life, supporting consistent, high-quality production. Oerlikon Balzers will exhibit alongside its sister brand Oerlikon HRSflow, whose hot runner systems ensure process stability during critical phases of injection molding.**

Oerlikon Balzers coatings contribute to resource-efficient manufacturing by minimizing tool wear, extending tool life, and maintaining consistent part quality—even when processing recycled or highly filled polymers. Free from PFAS, these thin-film coatings are based on PVD and PACVD technologies and comply with international standards such as EU REACH and EPA regulations. They enable PFAS-free demolding, which is essential for efficient and reliable polymer processing. Complementary services such as high-gloss and directional polishing meet demanding functional and aesthetic requirements.

BALINIT MOLDENA – Durable Coating for Challenging Polymer Applications

A key highlight at the booth is BALINIT MOLDENA, a PVD coating developed for injection molding and extrusion involving highly filled or corrosive polymers. It offers high hardness, excellent wear resistance, and reliable corrosion protection, making it particularly suitable for glass fiber-reinforced plastics (GFRP) and recycled materials. The result: longer tool life, stable processes, and consistent part quality – even under demanding conditions. Building on the proven BALINIT CROMA PLUS, BALINIT MOLDENA provides targeted protection for abrasive and recycled materials, supporting sustainable and efficient polymer processing.

BALINIT CAVITA – Precision Coating for Complex Tool Geometries in Medical Applications

Oerlikon Balzers will also present BALINIT CAVITA, a new PACVD coating designed for tools with deep cavities, sharp edges, and micrometer-level precision – ideal for medical applications. The coating ensures uniform layer distribution, strong adhesion, and easy demolding, even for highly detailed geometries. Based on its predecessor BALINIT DYLYN, it enables stable and efficient series production of technical and medical polymer components.

Integrated Polishing and Coating Services for Specific Surface Requirements

For demanding surface applications, Oerlikon Balzers offers a coordinated full-service package combining polishing and coating, including heat treatment with BALITHERM PRIMEFORM. Depending on the application, qualified specialists perform directional or high-gloss polishing to defined grit specifications—available on-site at the customer's location if required.

Expertise from Injection Molding to Reliable Demolding

The combination of precision hot runner systems from Oerlikon HRSflow and advanced coatings from Oerlikon Balzers reflects an integrated approach to polymer processing. The result: stable processes, reduced cycle times, and consistently high part quality.

Experts will be available at the joint booth **C70** in **Hall 1** to advise visitors on optimizing efficiency in polymer manufacturing.



Image: Oerlikon

BALINIT CAVITA ensures uniform coating distribution and easy demolding—even for deep cavities and sharp edges—ideal for polymer components in medical applications.



Image: Oerlikon

Polishing and coating from a single source: Oerlikon Balzers offers a complete service for demanding surface requirements.

For more information, please contact:

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About Oerlikon

Oerlikon (SIX: OERL) is a global leader in surface technologies and advanced materials. With a unique portfolio spanning surface engineering, high-performance materials, coating equipment and components, we make products better by enhancing performance, efficiency and sustainability. Oerlikon serves a wide range of industries, including aerospace, automotive, defense, energy, medical, luxury and semiconductors.

Headquartered in Pfäeffikon, Switzerland, Oerlikon together with its subsidiary Barmag operates in 38 countries with more than 12,000 employees across 199 locations, achieving sales of CHF 2.4 billion in 2024.