

Oerlikon Balzers Unveils Revolutionary S3p Coating Technology in Motorsport Webinar

Oerlikon Balzers, a leader in advanced surface solutions, hosted a highly informative webinar titled "*The Future of Coatings: Oerlikon Balzers Sp3 Revolutionary Smoothness*". Presented by Martin Hahn, Global Product Manager of the Piston Group & Motorsports at Oerlikon, the session offered deep insights into the company's cutting-edge technologies and the future of coating solutions in motorsports.

Martin Hahn showcased Oerlikon Balzers' breakthrough **S3p (Scalable Pulsed Power Plasma) Technology**, a revolutionary coating method that merges the best of arc evaporation and magnetron sputtering technologies. This innovation provides unparalleled smoothness, denser coatings, and enhanced durability for motorsport components, addressing key industry needs for friction reduction, temperature resistance, and wear resistance.

During the webinar, Hahn detailed the advantages of S3p technology, including:

- **Advanced Plasma Density Control:** S3p achieves a precise plasma density, enabling higher ionization rates, resulting in coatings that are denser and smoother than those achieved with traditional methods.
- **Application Versatility:** Oerlikon's coating services span globally, offering solutions for components such as piston rings, camshafts, gears, and valves. Hahn emphasized the adaptability of S3p to a wide range of motorsport and automotive applications.
- **High Performance:** S3p technology offers superior coating smoothness without droplets, which is critical for high-performance engines. For instance, the coating achieves a remarkable **1100°C temperature resistance** for exhaust valves, extending engine longevity and performance.

Oerlikon Balzers operates internationally, ensuring accessibility of these technologies across key markets, including their U.S. facilities in Rock Hill, South Carolina, and Elgin, Illinois. Hahn also underscored Oerlikon's commitment to small-batch production, supporting specialized and high-performance projects across the globe.

In response to attendee questions, Hahn reinforced that Oerlikon Balzers is prepared to offer tailored coating solutions across various regions, including Asia, with quick turnaround times and local support.

The webinar concluded with a Q&A session where attendees learned about the longevity and real-world test results of S3p technology, highlighting its successful application in

motorsports, delivering **over 10,000 kilometers of performance testing** with outstanding feedback.

For more information about Oerlikon Balzers' S3p technology and its applications in motorsports, visit [Oerlikon Balzers website] or contact their global offices.

Oerlikon Balzers is a globally recognized leader in innovative surface solutions, delivering cutting-edge coating technologies that enhance the performance and durability of automotive, motorsport, and industrial components. With a global footprint, Oerlikon offers tailored solutions designed to meet the high demands of performance-driven industries.

For more information, [watch the full webinar here.](#)