

The Future of Coatings in Motorsport

Revolutionary S3p Technology



Motorsport



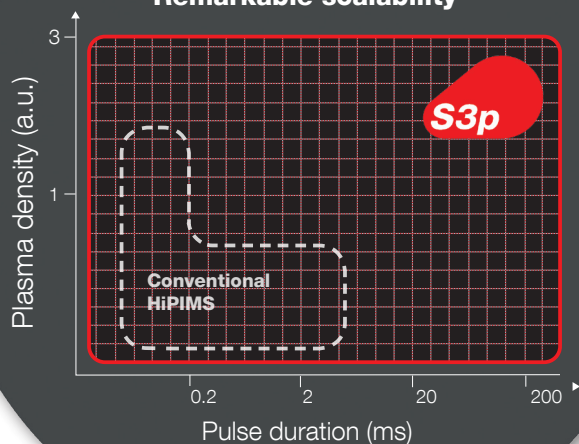
S3p Coating Technology: A new dimension in Motorsport

BALIQ® coatings from Oerlikon Balzers represent a technological milestone. Powered by S3p® technology, they uniquely combine the benefits of Arc Evaporation and Sputtering. BALIQ® coatings boost wear resistance and reduce friction, elevating performance and reliability in motorsports. Tailored to your needs, these advanced coatings unlock new possibilities, ensuring maximum power and durability. Discover BALIQ® innovations and push your engine to new levels.

Coating Features	>	Advantages
Higher hardness	>	30% harder compared to standard DLC coatings
More smoothness	>	Virtually no droplets are produced, eliminating the need for post-polishing
Low coating temperature	>	Coating applied below 200°C enables a wide range of materials to be coated
More resistance	>	300% more abrasive wear resistance than a 20 Gpa DLC coating
Longer durability of engine parts	>	Increase in efficiency



Remarkable scalability



Oerlikon Balzers' S3p – Beyond conventional HiPIMS technology:

- 100% Balzers developed technology
- Scalable pulse duration and plasma density
- Excellent control of pulse shape
- Covers a significantly wider range of process parameters compared to conventional HiPIMS
- Enables coatings precisely tailored to your needs



Revolutionary smoothness

BALIQ®

2000x

Arc Evaporation – post-treated
2000x

Arc Evaporation
2000x

Contact us to find out how BALIQ coatings boost your performance!

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