The Smooth Revolution
BALIQ

Follow the Flow of Intelligence!
A technological milestone has been achieved: BALIQ® - the new coating generation by Oerlikon Balzers. It is based on our S3p® technology (Scalable Pulsed Power Plasma) that intelligently combines the advantages of Arc Evaporation and Sputtering. The result is BALIQ®, a new family of wear-resistant coatings with revolutionary properties for a unique spectrum of applications. You benefit from new possibilities that transcend anything seen before – with coatings tailored precisely to your needs.
Tailored to your requirements
High density
The density of BALIQ® coatings is very close to the greatest density theoretically possible. High toughness and high resistance to crack propagation and diffusion are salient features.

Excellent friction
Among other benefits, the excellent coefficient of friction of BALIQ® results in improved chip flow and reduced built up edge formation.

Exceptional precision
High precision in coating thickness distribution guarantees extremely sharp edges. Outstanding results are achieved especially with tools that have ultra-small diameters.
Remarkable scalability

Customised coatings are possible thanks to the precise and independent scalability of pulse duration and shape as well as current density. The limits of conventional HiPIMS are overcome with the unique process window as well as significantly higher deposition rates and process stability.

Very good adhesion

BALIQ® coatings feature an exceptionally strong coating/substrate bond. High adhesion guarantees long and reproducible tool service lives.

Extraordinary coating design

Many different materials can be used for the coatings. This versatility is ideal for application-specific coating solutions.

All given data are approximate values, they depend on application, environment and test conditions.
Benefit from the new BALIQ coating generation
Contact us now!

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