

Advanced coatings for critical semiconductor components

Maximizing Performance.
Boosting Uptime.
Reducing Costs.

Semiconductor



Tailored thin film solutions for your unique needs

PECVD DLC & carbon-cased coatings

Customizable for reduced cost of ownership, low friction, high wear resistance, and electrical conductivity. Ideal for high yields and ESD prevention.

PVD coatings

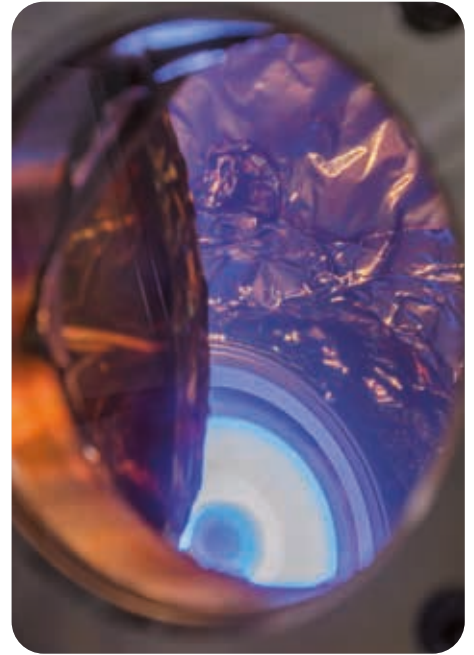
Versatile solutions for ESD, wear resistance, high temperatures, and plasma etch resistance, tailored to current and future semiconductor needs.

BALINIT® DYLYN

Diamond-like nanocomposite films offering friction and customizable electrical conductivity.

BALORA® HALONA

Coatings designed for high-demand plasma etching conditions, offering chemical resistance and durability.



Key advantages

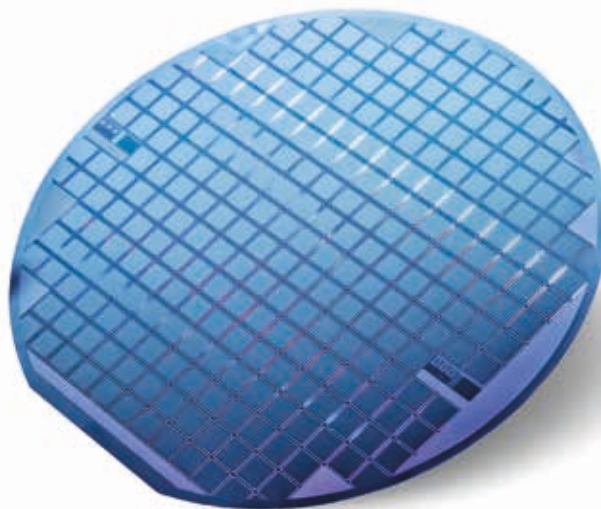
Etch resistance

Outstanding protection against corrosion, extending the life of semiconductor components



Exceptional durability

Prolong component lifespan



Cost efficiency

Significantly reduce operational costs



Enhanced contamination control

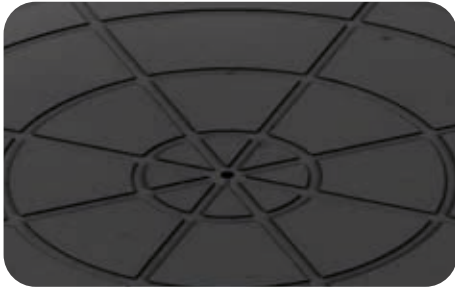
Minimize particulate and metallic contamination



Robust ESD protection

Safeguard against electrostatic discharge issues

A variety of applications – for every step of the process



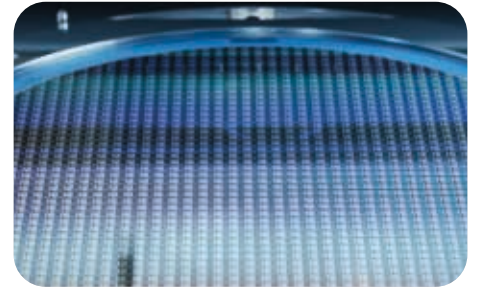
Wafer contact components

- Wafer stages
- E-chucks
- Wafer handlers
- Heaters
- Pedestals



Front-end solutions

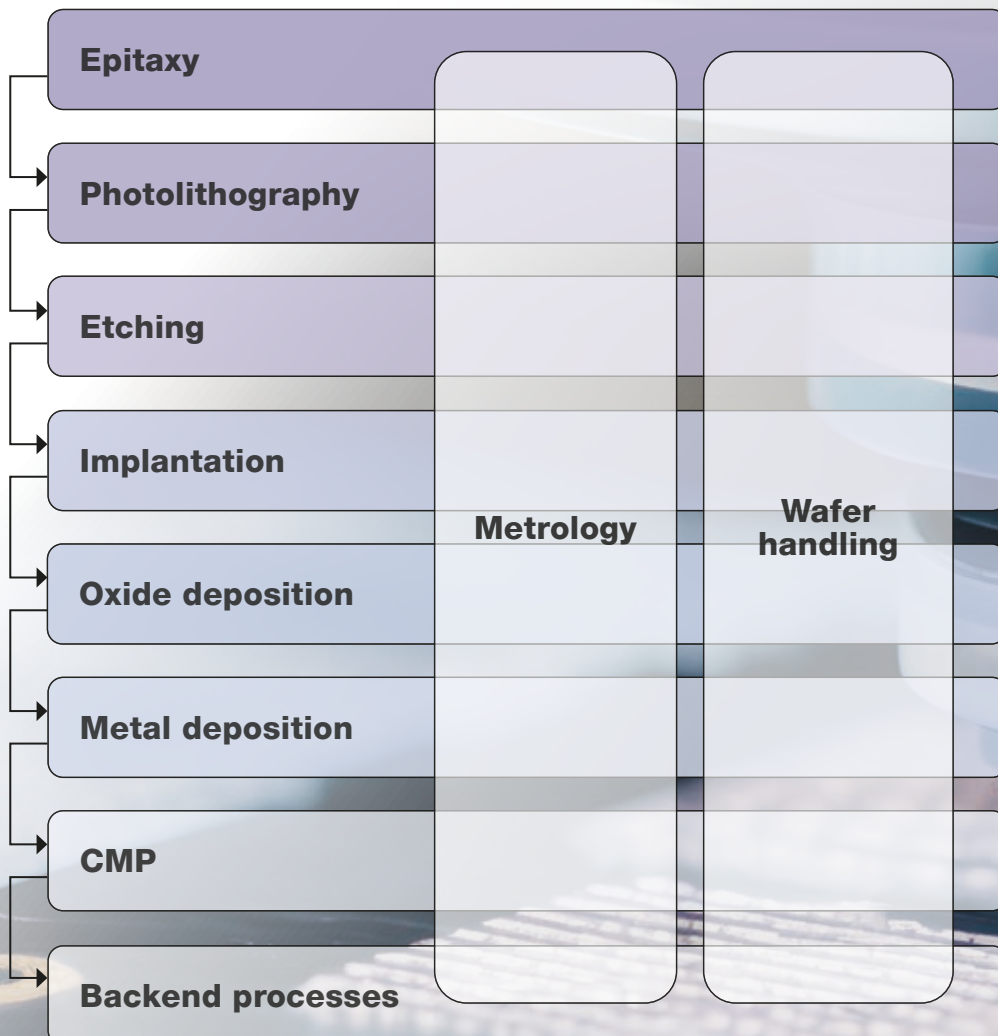
- Docking components
- Showerheads
- Focus rings
- Etch chamber liners



Back-end solutions

- Capillaries
- Packaging stages
- Bearings
- Plates

Semiconductor unit processes – Oerlikon solutions and offerings



Why partner with Oerlikon?

Our comprehensive offerings ensure unparalleled support and expertise every step of the way.



High-volume manufacturing capabilities

- **Semiconductor process support**
Robust support across PECVD, PVD, stripping, and cleaning processes
- **Cleanroom standards**
Our facilities adhere to Class 1000 cleanroom standards, ensuring a contamination-free environment
- **Support services**
Metrology and analytics, along with customized tooling and fixturing tailored for optimum performance on your components

Contact us to learn more about how Oerlikon can enhance your semiconductor manufacturing processes

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