

## Tutorial PVD

### Listen to the Customer – Design Aspects for Vacuum Coating Systems

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Vacuum coating technology plays a crucial role in various industries, including materials science, semiconductor manufacturing and optics. Effectively catering to customer requirements within these systems is essential for enhancing efficiency, productivity, and overall customer satisfaction.

The authors aim to provide attendees with valuable insights into the practical aspects of implementing customer requests in vacuum processing systems. It will cover a range of topics, including the identification and analysis of customer requirements, system design considerations, and effective implementation strategies.

In addition, system design considerations are made to meet different customer requirements. This includes aspects such as modularity, scalability and adaptability to enable seamless integration of customer-specific functions. Step-by-step development approaches, such as design studies, demonstration setups and subsequent prototyping of new systems, are evaluated for complex requirements in new application areas that often lead to a new tool product series.

Systems for known, standardised substrates, e.g. semiconductor wafers, but with new process aspects, are being developed through various approaches to system customisation, including hardware and software changes, which underlines the importance of balancing customisation with system stability and reliability.

Throughout the tutorial, real-world case studies will be presented to illustrate successful customer request realization in vacuum processing systems. These case studies will showcase the practical challenges faced during the process and highlight effective solutions that can be adapted to various industry domains.

By attending this tutorial, participants will gain a comprehensive understanding of the key considerations and methodologies involved in implementing customer requests in vacuum processing systems. They will acquire practical knowledge and insights that can be applied to their own projects, leading to enhanced customer satisfaction, improved system performance, and increased competitiveness in their respective industries.