ADVANCING EUROPE'S MACHINERY INDUSTRY

Agenda
Quantum Technology and Photonics Forum

Start	4th of March 2026	10:00
End	4th of March 2026	16:00
Place	Physikalisch-Technische Bundesanstalt (PTB), Bundesallee 100, 38116 Braunschweig, Germany	

What are Quantum Technologies and how do they affect me?

Join us at the Physikalisch-Technische Bundesanstalt (PTB) in Braunschweig for a "guided tour" into the world of quantum technologies. You will get an overview of quantum technologies in general and learn how quantum sensing, quantum communication and quantum computing can be used in industry. The program will be a mixture of presentations, lab tours, Q&A sessions, and networking opportunities.

Note: The exact order of items on agenda will be provided prior to the visit.

10:00 **Welcome & Introduction: Overview of Quantum Technologies and their Relevance for Industrial Applications**

Get an overview of quantum technologies, their current maturity levels and potential applications. The VDMA Forum Quantum Technologies and Photonics will be introduced as a platform for industrial exchange and innovation.

Lab Tour: Atomic Clocks and their Industrial Relevance

Visit the atomic clocks that provide the official time in Germany and learn about modern optical clocks based on single trapped ions now available as a product.

Networking Lunch

Quantum Technology Center (QTZ): Bridging Research and Industry

Discover how PTB supports industry with knowledge about quantum technologies, robust quantum components, metrological services, testbeds, and infrastructure to facilitate the adoption of quantum technology.

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Quantum Sensing in Mechanical and Plant Engineering

Learn how quantum sensors enable new industrial applications, from predictive maintenance to environmental monitoring.

Quantum Communication and Information Security

Sufficiently powerful quantum computers could in the future break existing data encryptions. Learn when data needs to be protected and how this threat can be mitigated with Post Quantum Cryptography (PQC) and Quantum Key Distribution (QKD).

Quantum Innovation and Computing for SME (QUICS)

Discover how quantum computing can solve complex industrial problems and how small and medium enterprises (SMEs) can access training, consulting, and pilot projects through the QUICS project (Quantum Innovation and Computing for SME).

Lab Tour: Precision Torque Measurement for Heavy Machinery

PTB works on all kinds of measurements. Visit PTB's 17-meter torque standard machine that can be used to measure up to 5 MNm, torque produced by the world's largest wind turbines.

16:00 **End of event**