



Technology and an advanced application laboratory for the study, validation and optimization of dispensing processes.

COMPETENCE CENTER

**Beyond Dispensing.
Test, Validate, Optimize.**



What is the Competence Center DAV Tech?

The DAV Tech Competence Center is an advanced application laboratory made available to companies to **test, validate** and **engineer** micro-dispensing and surface engineering processes before industrial-scale integration.

Reduce process risks, optimize quality, and eliminate surprises in production.



Benefits for R&D and Production:

01 Risk Elimination

Complete verification of technical feasibility on real components and with production fluids before purchasing the equipment.

02 Takt Time Optimization

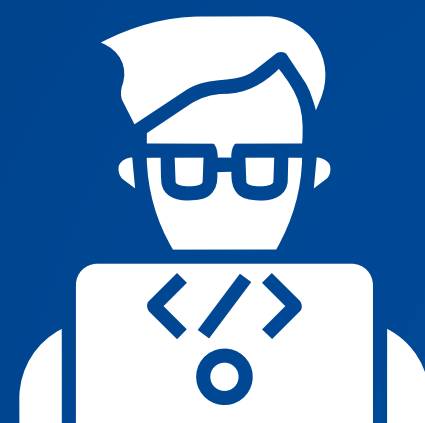
Rigorous definition of operating parameters, robot speeds, dispensing paths and material curing times.

03 Technical Report & Traceability

Delivery of a complete dossier including operating parameters, microscopic analysis and laboratory metrology measurements.



The Validation Process



01

Planning

Detailed definition of project requirements and analysis of the specified fluids.

02

Design

Comparative evaluation of the fluid/dispensing device combination and study of dispensing paths.

03

Development

Precise definition of key parameters (pressure, speed, flow rates and post-dispensing treatments).

04

Test & Prototyping

Feasibility trials on real parts and production of samples for qualification.

05

Report

Delivery of technical documentation, microscopic analysis and precision weighing of the bead/droplet.

06

Project Launch

Support for integration into the production line and assistance with small-batch or pilot production.

Application Services Offered



✓ **Testing & Feasibility Trials:**

Evaluation of the fluid/dispensing device combination, repeatability and flow rate control.

✓ **Sampling & Prototyping:**

Production of physical samples for project verification and technical validation.

✓ **Small-Batch Production:**

Temporary production support for pilot batches or unexpected demand peaks.

✓ **Process Engineering:**

Definition of key parameters (pressure, speed, post-dispensing treatments).

R&D Technologies & Equipment in the Laboratory



ADVANCED DISPENSING

Advanced testing with the latest fluid dispensing technologies.



TEMPERATURE CONTROL

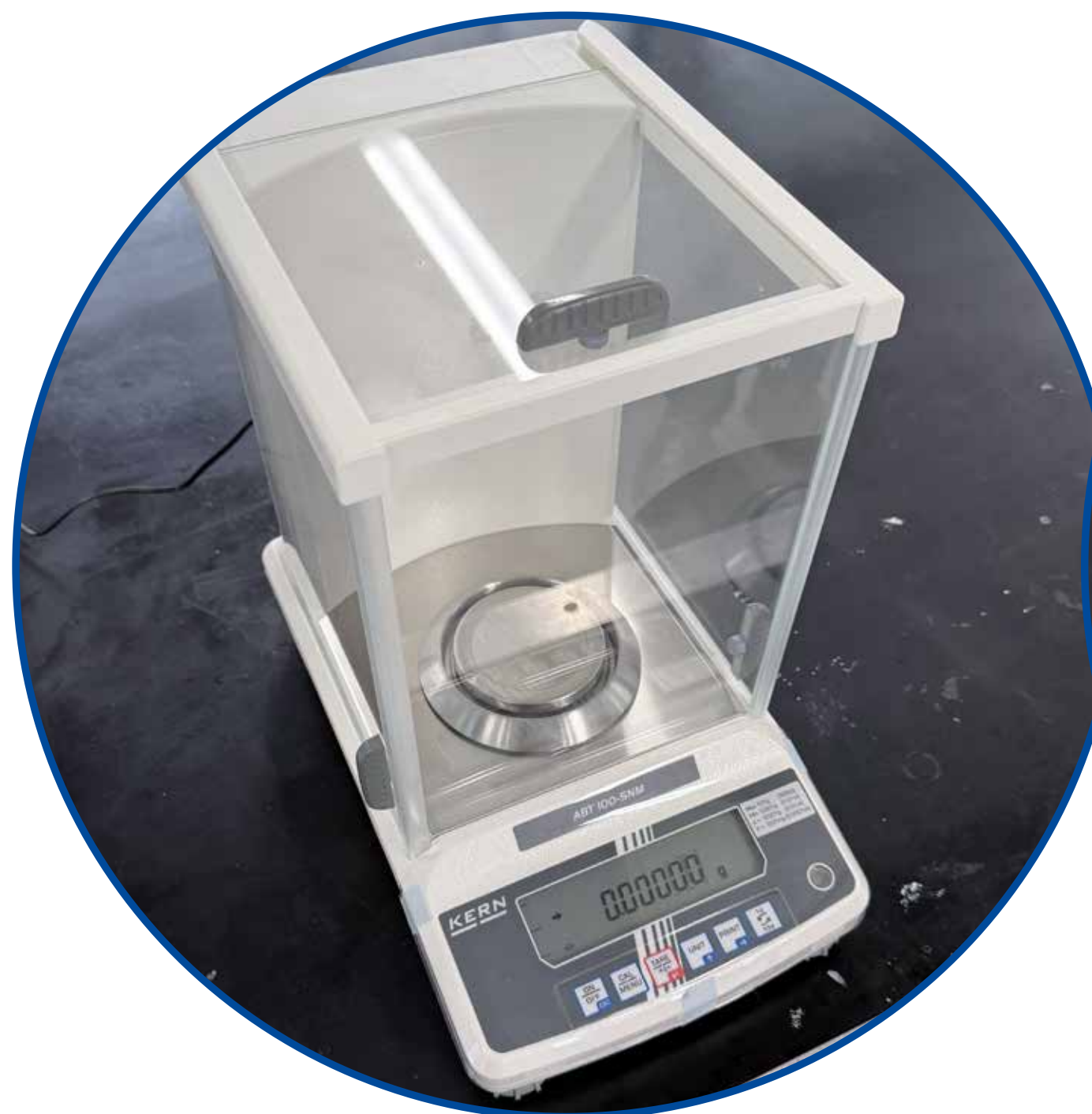
Storage and preservation of fluids at controlled and certified temperatures.



CONTROLLED HEATING

Temperature-controlled curing, component preparation and optimized material curing processes.

R&D Technologies & Equipment in the Laboratory

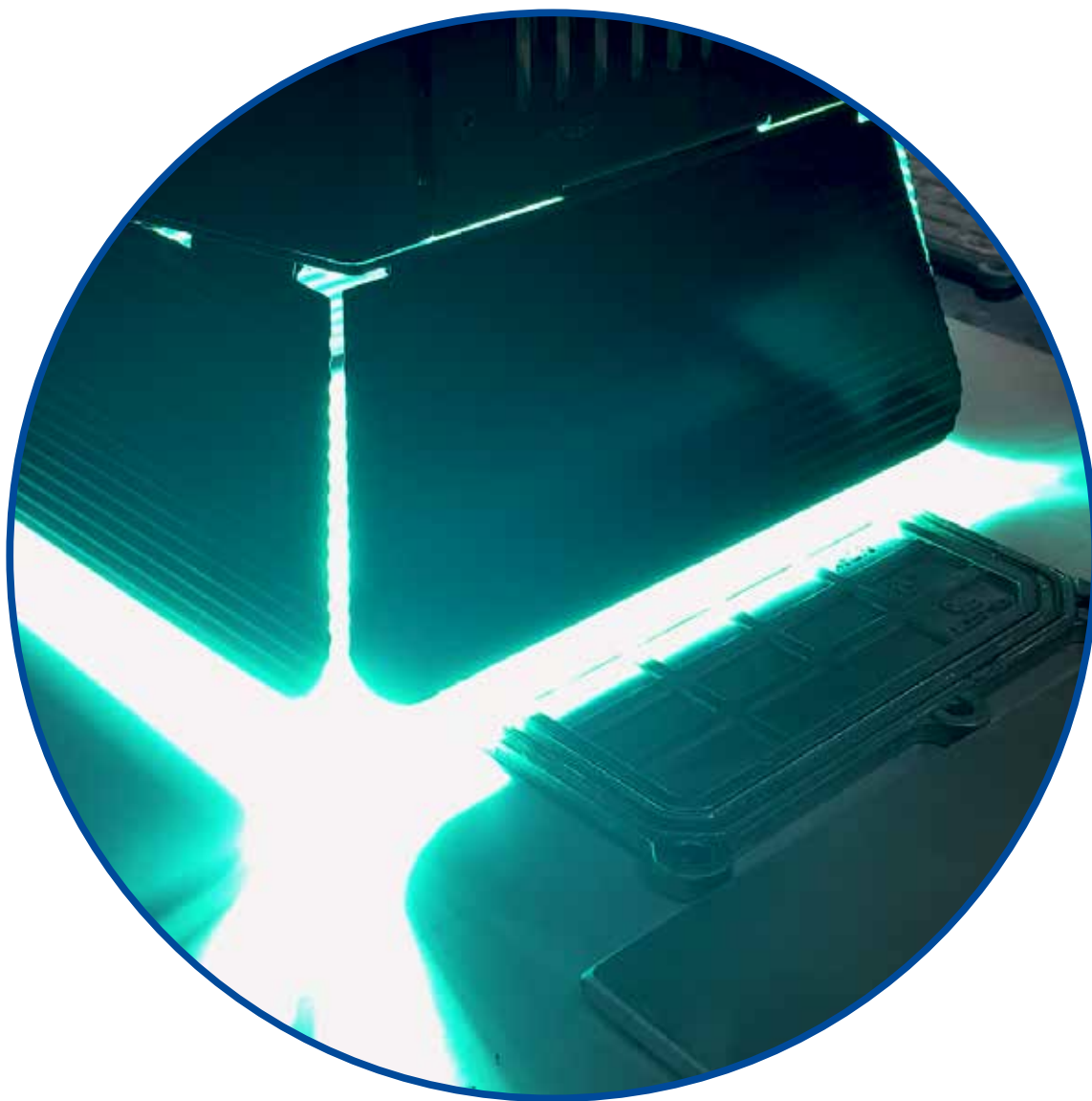


ANALYSIS & METROLOGY

Accurate sample characterization using advanced laboratory measurement, analysis and weighing systems.

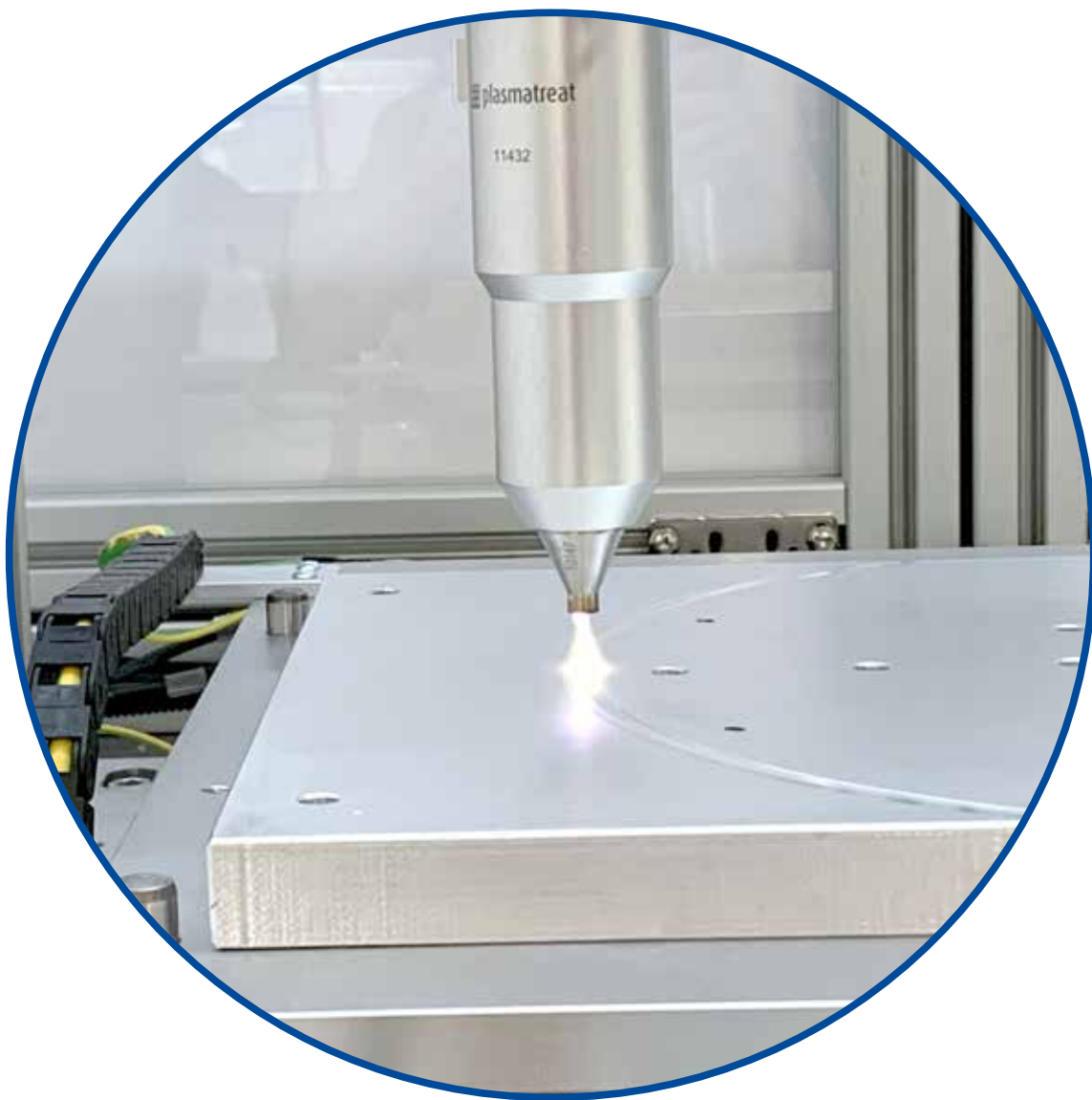


R&D Technologies & Equipment in the Laboratory



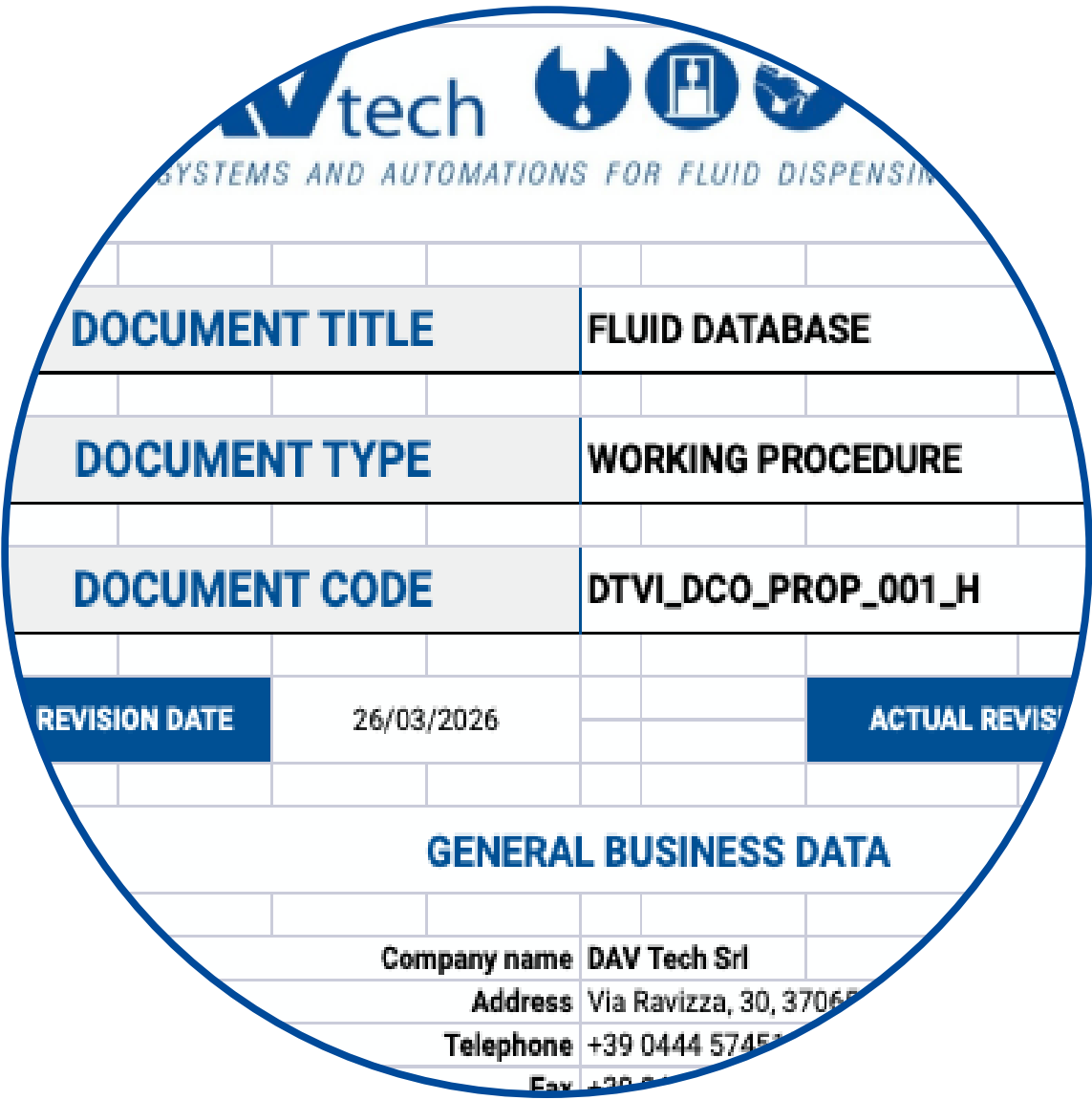
UV CURING

Rapid curing treatment using high-performance UV sources.



SURFACE PLASMA TREATMENT

Surface activation and cleaning for improved adhesion.



BENCHMARKING

Comparative analysis of chemical products to select the formula best suited to application requirements.

R&D Technologies & Equipment in the Laboratory



HANDLING & ROBOTICS

Custom handling and material manipulation solutions, integrated with Cartesian, SCARA and articulated robots with controlled axes, for smooth, precise and automated operation.

Book a test session at the DAV Tech Competence Center!

Verify your process feasibility before committing to the purchase of the equipment.





Components, systems and automation for precision fluid dispensing.

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