

Do you know it yet?
Additionally: VEDDAC py

VEDDAC py - a Python-based interface that adds automation capabilities to the software VEDDAC 7.

- **Seamless integration** into existing VEDDAC 7 projects (templates can be imported and reused)
- **Complete workflow automation:** from configuration to data analysis and visualization
- **Combination with Python libraries** e.g., AI-based data processing, real-time feedback systems
- **Ideal for research environments** that require flexible and high-throughput data analysis

With VEDDAC py, complex measurement and evaluation tasks can be **integrated directly into existing research and production lines** – for maximum flexibility and efficiency.



VEDDAC py

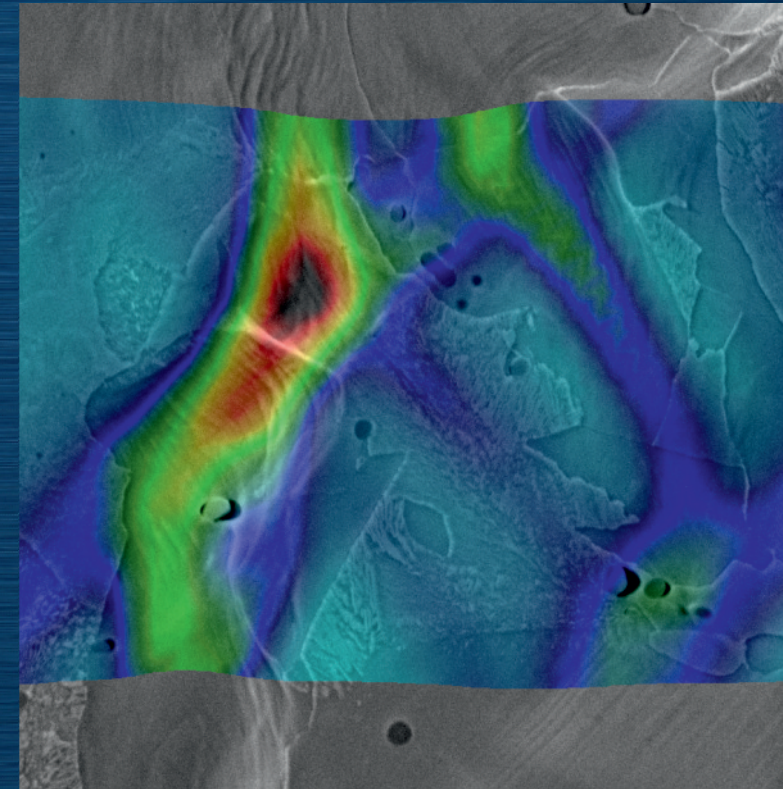


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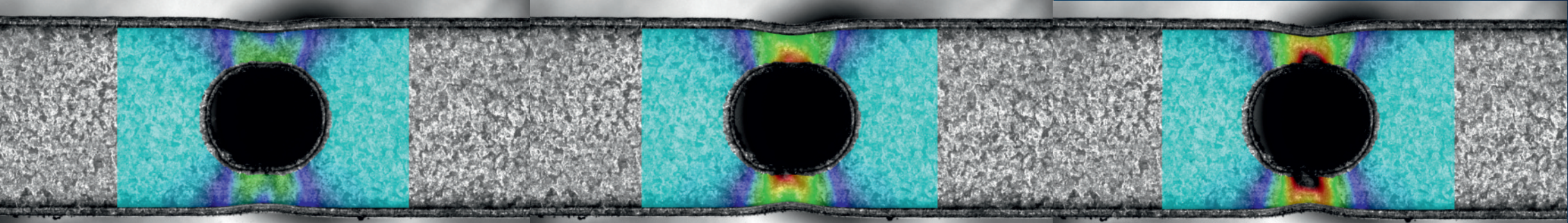
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VEDDAC 7

Software for
image processing supported analysis of
motions | deformations | strains



Professional image analysis

Contents & Innovations

Field of application

VEDDAC 7 is a powerful software package for the precise analysis of

movements deformations and surface changes

using digital image correlation (DIC).

VEDDAC 7 combines maximum precision with efficient working. **A key advantage is that surfaces can be analyzed without additional preparation in most cases.**

This minimizes potential sources of error and significantly increases both measurement accuracy and result reliability.

Combined with intuitive user experience, this results in a particularly **efficient analysis process.**

In addition, even large image sequences can be easily evaluated – regardless of the imaging technology used.

This makes VEDDAC 7 flexible and suitable for use in both research and industry.

Robust evaluation technology

VEDDAC 7 is characterized by the following core strengths:

- Subpixel resolution of **0.01 pixels**
- Analysis of very large deformations (**>1000% strain**)
- **Stable under changing image conditions** such as lighting or changing surface structures
- **Optimized algorithms** for demanding applications (e.g., SEM or X-ray CT image data)

Visualisation & Export

Results can be visualised flexibly — as a result image or video. The extensive diagram options offer individual settings to clearly display even complex relationships.

Typical representations include:

- **Shifts**
- **Local strains** (normal, technical, principal, true,...)
- **Average strains**
- **Bending lines**
- **Local speeds & accelerations**

VEDDAC 7 provides **flexible image and data export options** for further processing. Displacements and strains can be linked to external measurement data, such as forces or temperatures, and the results can then be exported in a variety of formats.

Typical application areas

VEDDAC 7 enables the **reliable determination of material characteristics** and the **analysis of deformation and failure mechanisms** in material composites and systems.

The software records real loads on the material, such as mechanical, thermal or combined stresses. Specially **optimised for micro-scale technology**, VEDDAC 7 supports the precise recording of measurement data for simulation, testing and research tasks.

