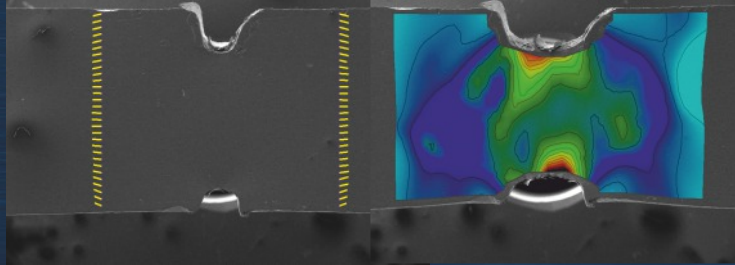


Videoextensometer

VEDDAC 7



Additional: VEDDAC 7 analysis software

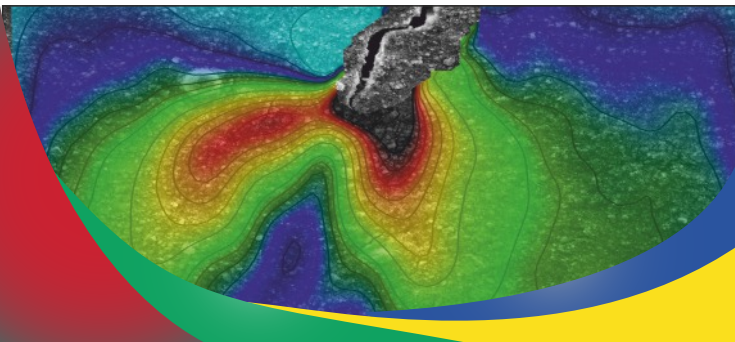
Make visible, what you can't see!

VEDDAC 7 allows detailed analysis in post-processing of images taken without sample preparation:

Local strains, deformations and damage made visible
- in colour, precise, intuitive.

The perfect addition to the videoextensometer
- for anyone who wants to take a closer look.

- ➔ Detailed strain analysis directly on the image
- measure locally instead of just globally
- ➔ Colourful visualisation of deformations and damages
- immediately comprehensible
- ➔ Import force data and link it with image data
- for a complete test evaluation
- ➔ Create diagrams directly in the software
- no additional tools required



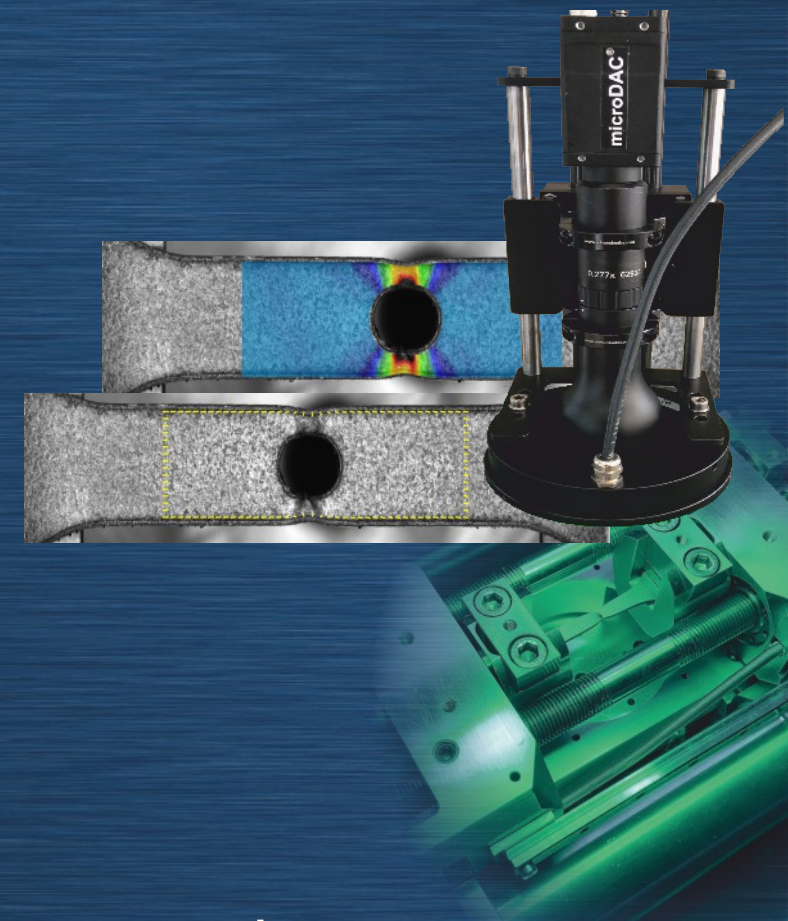
Chemnitzer Werkstoffmechanik GmbH
Contact: microDAC@cwm-chemnitz.de



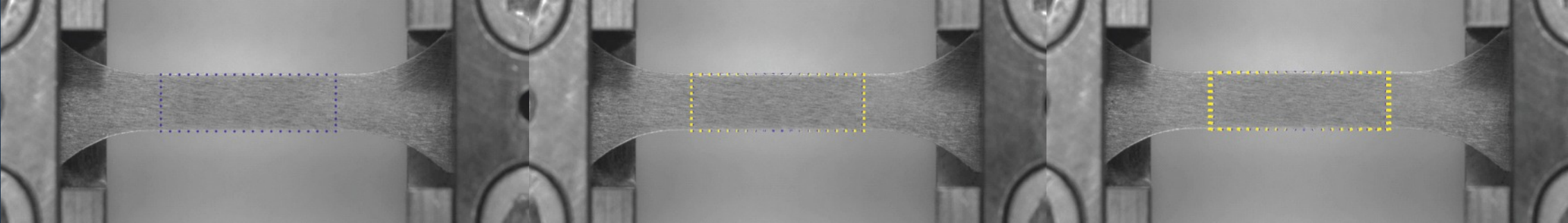
Chemnitzer
Werkstoffmechanik GmbH

Kammrath &
Weiss GmbH 

www.cwm-chemnitz.de



Videoextensometer
for K&W Tensile & Compression Modules



Videotensometer

In-situ - non-contact - highly accurate

Videotensometers for K&W Tensile & Compression Modules enable precise in-situ measurements of elongation and strain - with an accuracy class of 0.2 (according to DIN ISO 9513).

The determination of longitudinal and transverse strain is based on DIC*, as a direct measurement on the material surface - usually without interfering sample preparation!

- ✓ **Immediate longitudinal and transverse strain directly on the specimen**
- ✓ **Without markings on the material surface**
- ✓ **Non-contact - suitable for sensitive specimens**
- ✓ **Can be combined with thermal loading technology - ideal for materials under thermal stress**
- ✓ **Also suitable for K&W Biaxial Tensile Modules**

Videotensometer - Software solution

for SEM and light microscope applications

The videotensometer software *VEDDAC strain* enables in-situ strain measurements using a scanning electron microscope (SEM) or light microscope - with just a few basic settings.

After starting the tensile and compression test, the image data is automatically loaded, elongation [μm] and strain [%] are calculated and transferred directly to the K&W testing software MDS.

This allows force and strain values to be linked exactly - without time-consuming manual post-processing.

For more in-depth analysis - such as identifying local effects - the software *VEDDAC 7* enables precise correlation of image data and mechanical behaviour. It supports image evaluation and colour-coded visualisation of local strain distributions.

Videotensometer - Workbench systems

Camera-based measuring systems

Videotensometer - Workbench systems are camera-based measurement systems for image-supported in-situ strain analysis - in various configurations and expansion stages.

Modular design and a large selection of optical components: Camera, lens, ring light, tripod - individually adaptable to image field, exposure settings and measurement resolution.

In combination with the K&W Tensile & Compression modules, the videotensometer - workbench systems enable high-precision in-situ measurements in the micro range.

Suitable for use in research, development and quality assurance for all those who require precise and non-destructive strain analyses.

DIC* Digital Image Correlation

