

MatchID

Metrology beyond colors

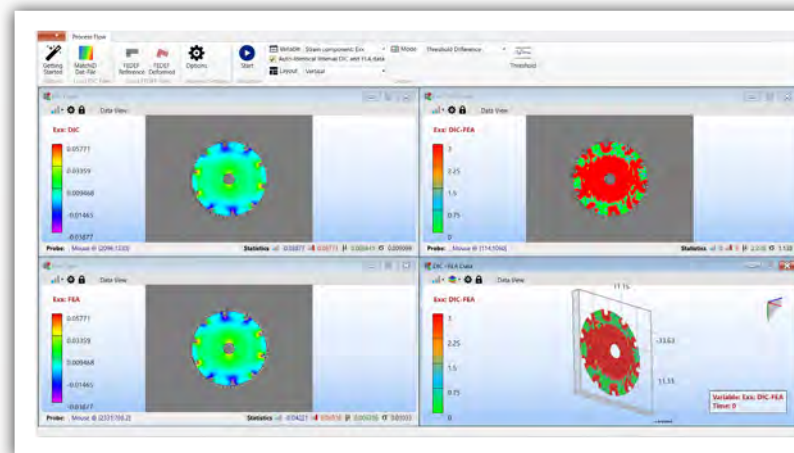
Validate models & simulations

MatchID helps structurally validating simulations against tests, a universal engineering challenge.

Correctly comparing Finite Element (FE) simulations with Digital Image Correlation (DIC) test results is an ever-returning question.

MatchID has developed an FE-VAL module for structural validations, whereby a direct, one-to-one relation between model and test is created, thereby allowing a full-field, point-to-point, quantified comparison between the two.

MatchID can thus help validate structural material behaviour.



Key Features

- ✓ Eliminate uncertainty effects
- ✓ Avoid false positives
- ✓ Full-field validation maps
- ✓ Looped model updating
- ✓ Direct visual insights
- ✓ Supports major FEA platforms

Applications

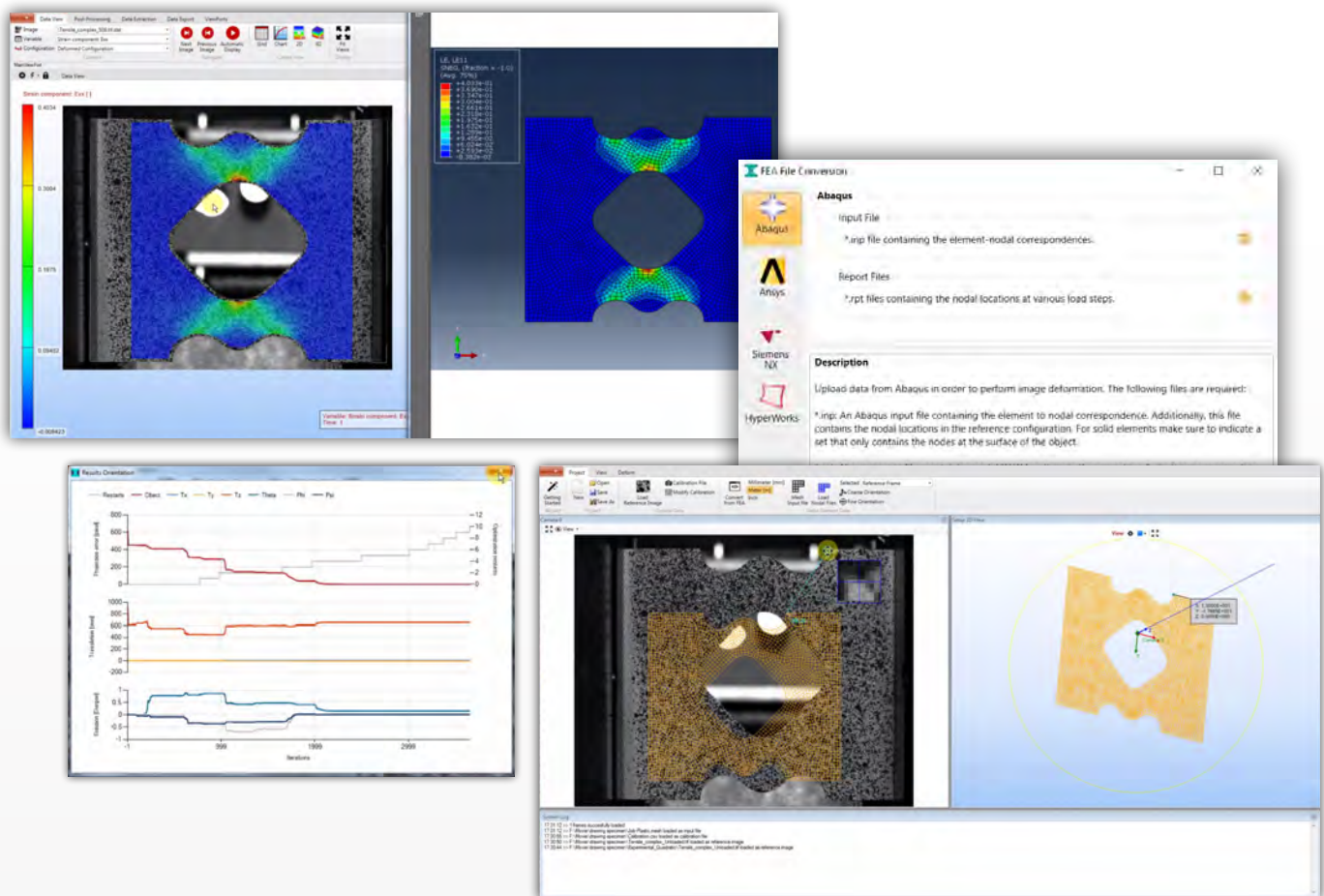
- ✓ Product design
- ✓ (new) product engineering
- ✓ Additive manufacturing
- ✓ Applied research
- ✓ Fundamental research

Customer Benefits

- ✓ Save time and money on R&D
- ✓ More control over engineering
- ✓ Honest validation
- ✓ Shorter development cycles
- ✓ Improved safety margins

Competitive Advantages

- ✓ Directly link simulation with test
- ✓ Close engineering loop
- ✓ Quantified comparisons
- ✓ Validated difference
- ✓ Full field point-to-point



About MatchID

MatchID is a university spin-off, developing open, high-end, engineering software.

At the core of **MatchID**'s offering sits a holistic DIC-platform, providing quantitative result interpretation with integrated error assessment.

Many DIC systems generate coloured images to mark changes, such as strains or displacements; mostly operating by the black-box principle, these results merely show WHAT is happening in your experiment.

MatchID however answers the more important question: WHY and HOW does deformation happen; we provide insight into result creation, rather than having you test presumptions, thereby taking Digital Image Correlation to the next level.

Building on our DIC results, we do identification of mechanical properties of materials through the Virtual Fields Method (VFM).

Structural validation of Finite Element simulations is also supported, by establishing a one-to-one relation between model and experiment in the FEA module (FE-VAL).

Ultimate flexibility is offered by allowing direct interaction with external scripts, functions or programs through our universal Programming Language Interface (PLI).

The **MatchID** app-store allows for storing, using and buying or selling of third party tools.

In-depth training is available in the form of annual courses, webinars, self-training and online exercises.