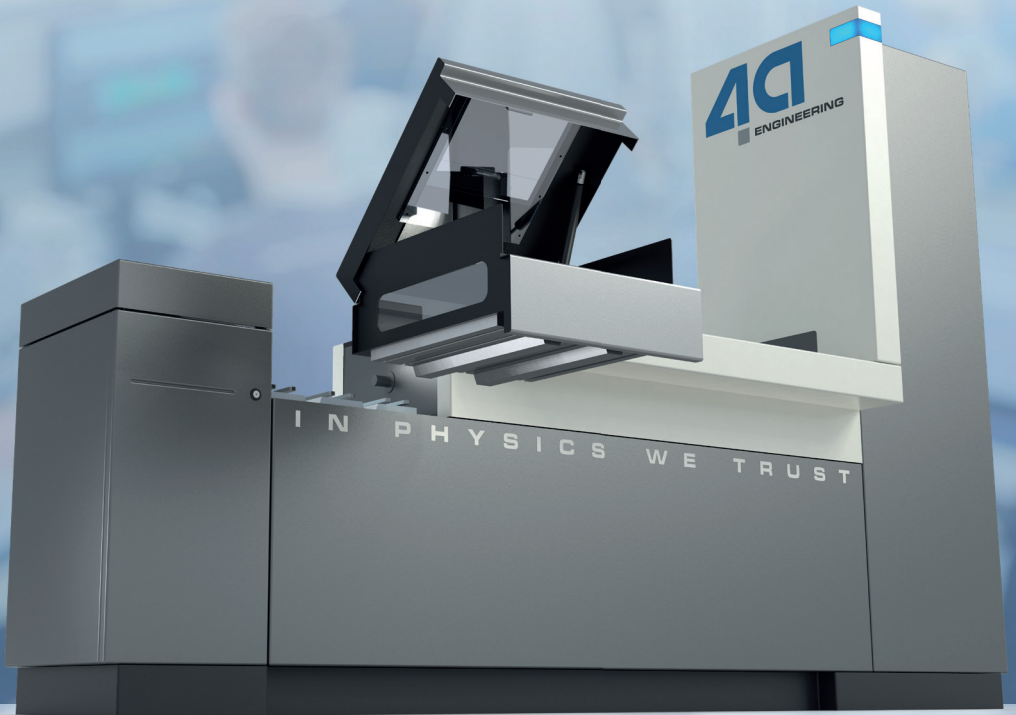




LINOVIS

high performance modular testing



I N P H Y S I C S W E T R U S T

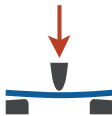
Just another electro-dynamic testing machine?

The brand-new LINOVIS® testing system is the most comprehensive electro-dynamic testing machine up to date. With its 3 modes of use (static, dynamic, cyclic), its various test setups, which are switched in minutes, as well as a maximum force of 25kN even in static mode and the option of 2 integrated DIC cameras we can assure you no wishes stay unfulfilled. The oil-free precision linear drive and the extra stiff frame design ensure similar testing conditions for every test from ductile plastics to high strength steel alloys. The applications seem endless: high fidelity material characterization, mechanical characterization of battery cells and cell stacks, impact testing on component level, combined complex loading scenarios for all driving modes...

- up to 4 industry-standard machines in one
- modular test chamber design for maximum flexibility
 - fast exchange of test setups
 - thermal chamber
 - battery test chamber
- highest force and speed range of all available electro-dynamic machines
- remote control and automated test data upload
- prepared for automated test execution and change of test setups
- seamless 3D DIC integration
- precision control with 16kHz frequency
- low operation and maintenance costs due to linear drive technology
- high precision extra stiff frame design
- high performance DAQ system with 500kHz sampling rate
- fully detachable and movable user interface

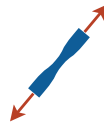
bending tests

e.g.
ISO 178
ISO 7438



tensile tests

e.g.
ISO 6892-1
ISO 527
ISO 26203-2
ISO 18872



compression tests

e.g.
ISO 844



puncture / impact tests

e.g.
ISO 6603



component tests

e.g.
crash box

special setups

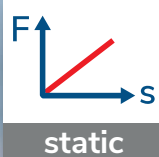
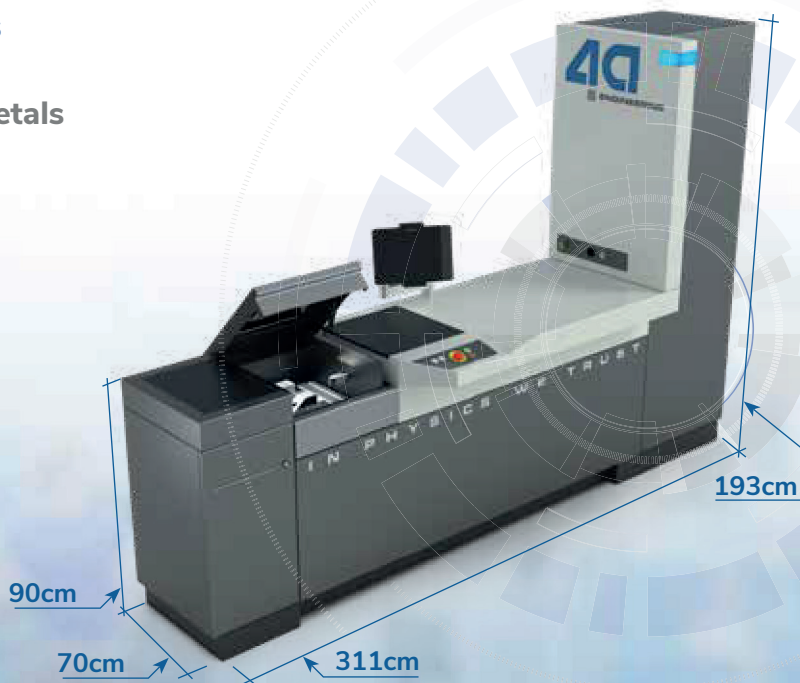
e.g.
K1c based an ASTM E399

fully compatible with IMPETUS test setups

 plastics

 light metals

 steel



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key specs

max force	25kN
max speed	3.2m/s
max stroke	200mm
energy	600J
frequency	~30Hz

dimensions

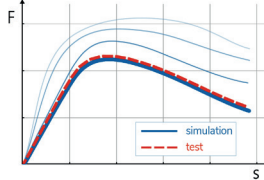
weight	1500kg
x/y/z	311cm / 70cm / 193cm
power	3 phases

1**test data management**

- full VALIMAT® integration
- all data in one place

2**optimization**

- automated FE-model generation
- automated parameter identification
- customizable workflows

**3****validation**

- ... of deformation and failure behavior
 - load cases
 - mesh sizes
- one click material card generation

**test results****DIC data**

from test to validated material card in one software

Our stand-alone software VALIMAT® combines test- and model data into an efficient database format for material characterization. All testing devices are supported and data can be used to optimize a huge variety of complex material models in LS-Dyna, Pam-Crash, Abaqus with our fully automated AutoFit process. The material model can then be validated on simple FEM coupon tests or even custom built-up geometries and load-cases.

**ENGINEERING****Part of the 4a group**

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