

LINOVIS

high performance modular testing

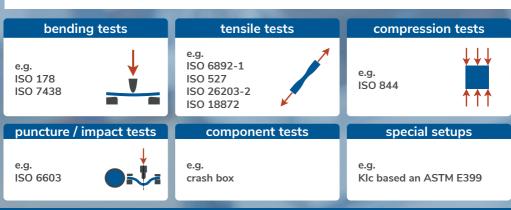


IN PHYSICS WE TRUST

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 unfullfilled. The oil-free precision linear drive and the extra stiff frame design ensure similiar 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







light metals



steel







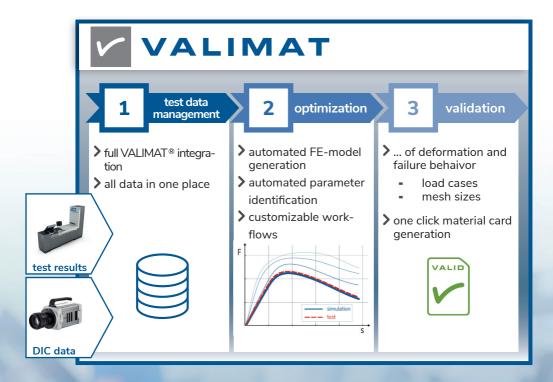




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| key specs | |
|------------|--------|
| max force | 25kN |
| max speed | 3.2m/s |
| max stroke | 200mm |
| energy | 600J |
| frequency | ~30Hz |
| | |

| dimensions | |
|------------|----------------------|
| weight | 1500kg |
| x/y/z | 320cm / 70cm / 205cm |
| power | 3 phases |



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.



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