



The new chapter of universal material testing

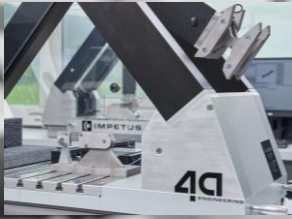
I N P H Y S I C S W E T R U S T



4a engineering – Business Units

Testing hard- and software

- IMPETUS
- LINOVIS
- VALIMAT
- MICROMECH
- FIBERMAP



Seamless testing and simulation solution for automated material characterization

Material characterization



Static and dynamic material characterization from specimen to component validation – all under one roof

Validated material cards



Optimized packages for common material models for LS-Dyna, PamCrash and Abaqus.

Battery Testing and Simulation



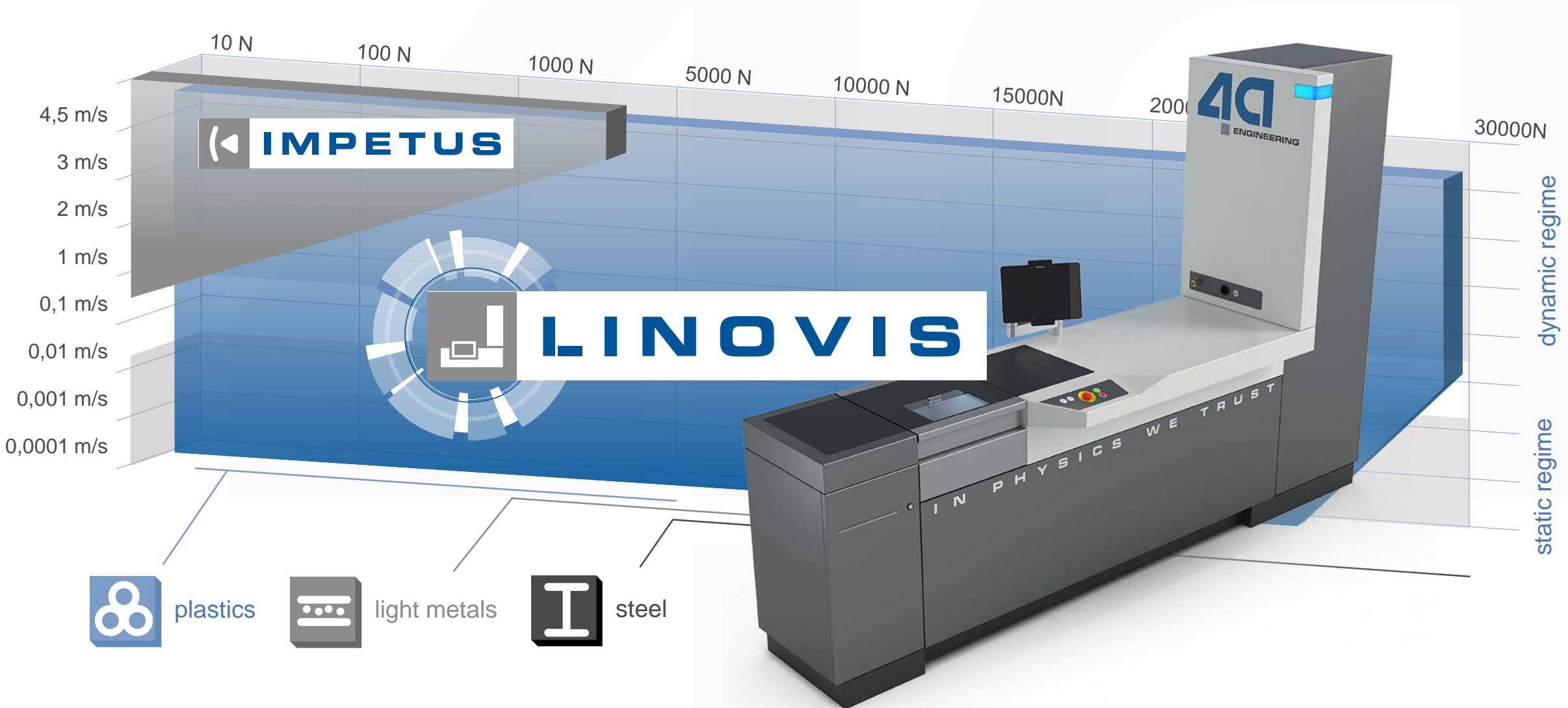
Testing and multiphysics modelling of battery cells, cell stacks and modules.

Testing systems – range of application

dynamic regime

static regime

cyclic regime



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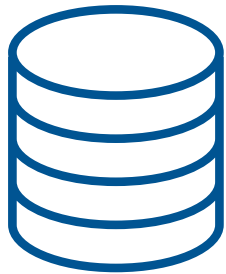
VALIMAT

from test to material card

1

test data management

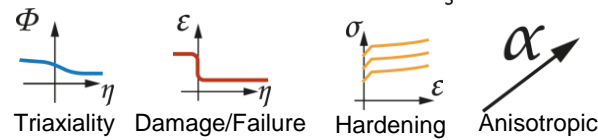
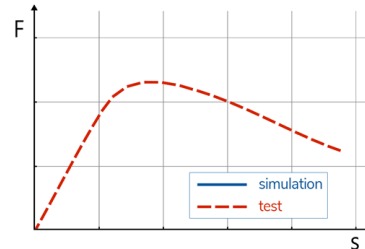
- full VALIMAT® integration
- all data in one place



2

optimization

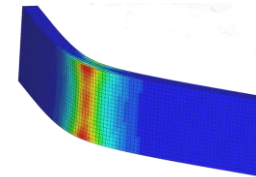
- automated FE-model generation
- automated parameter identification
- customizable workflows



3

validation

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





01

customer orientation
Think like our customer!

02

motivated & professional
Be a team of pioneers!

03

leadership in technologies
Do what only we can do!

04

high quality outcome & success
Do what bring success!

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