HoyWin®

HOYTOM®
Die Maschine

en

HoyWin

Force 50 kN	Force 500 kN	Crossbar	Extensometro
-0.000 kN	-0.00 kN	0.0 mm	

Specimen configuration

1 System

2 Sample settings

3 Test settings

4 Test data

5 Launch test

6 Results

High   Compression

HM-D - Inverted cell, high zone - compression

HOYTOM®

kN
0.000
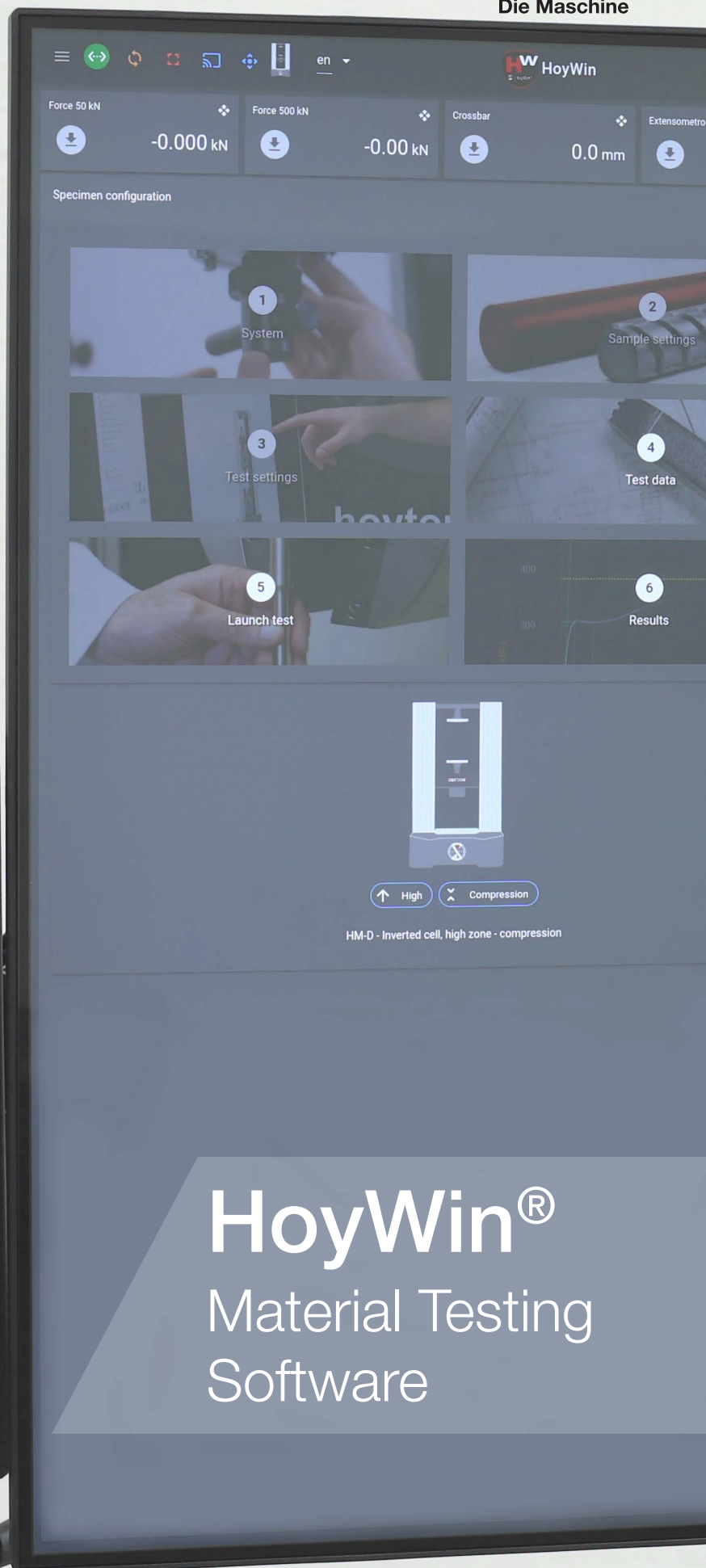0.000 kN
mm
0.000
0.0 mm/min

Auto   OFF
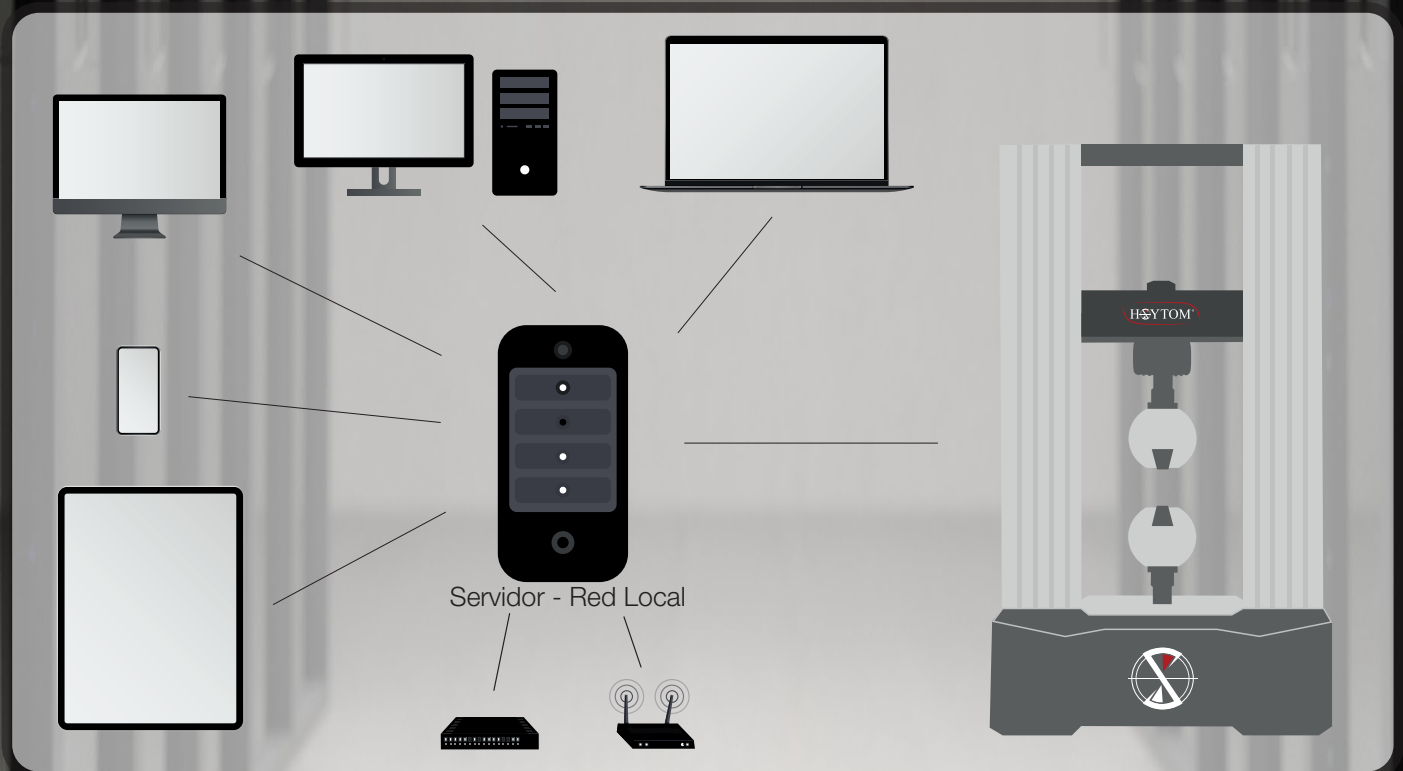
HoyWin®
Smart | Remote

HoyWin®
Material Testing
Software

On your local network

Hoytom presents a new electronics and software development. A completely new development focused on meeting the needs of **Enterprise 4.0**. Access your machine from any device without the need to install software, via your company's local network.

Thereby increasing consultation and test configuration possibilities.

HoyWin's new architecture equips the machine with **connectivity** enabling results to be consulted via the internet. This facilitates **cloud backups** , **remote technical support**, and **automatic security** and functionality updates.


Servidor - Red Local

Multi-device

HoyWin lets you connect to the machine from any desktop computer, laptop, tablet or mobile phone.

A **web technology** based development that eliminates the need to install software on a client computer. Just a web browser is required to access the full HoyWin feature set.

This allows the user to use any existing operating system on the market such as Windows, MacOS, Linux, Android or iOS.
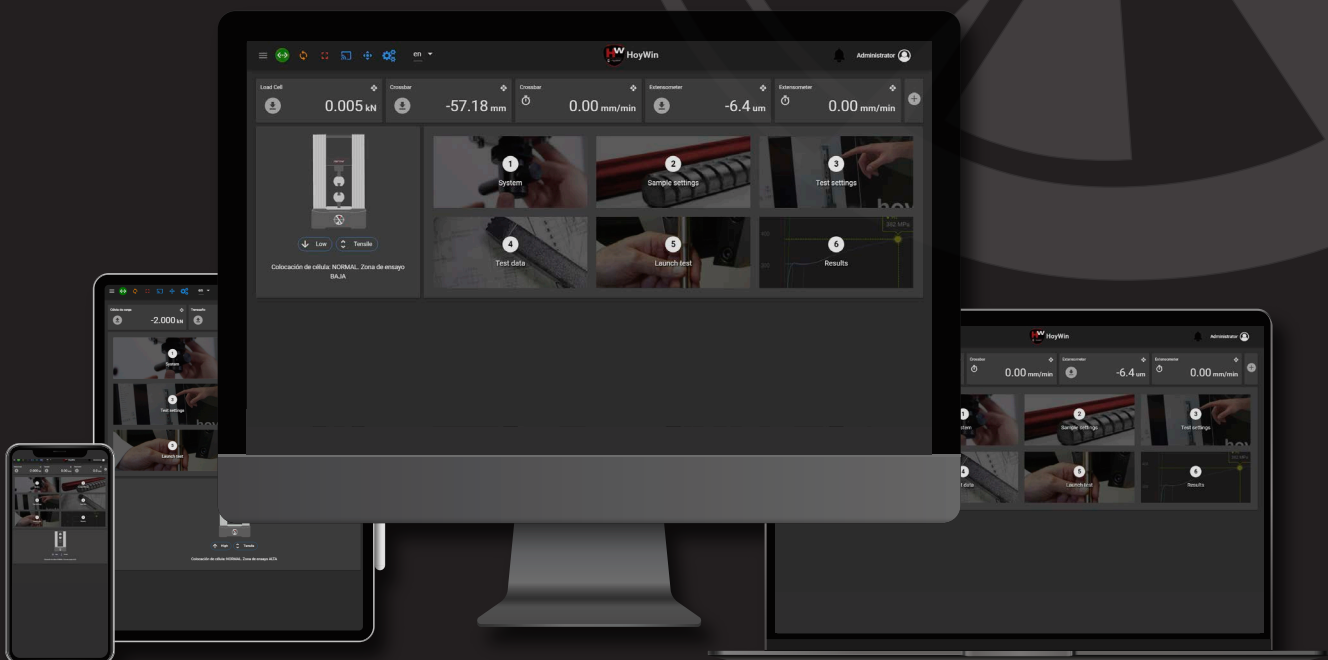
Control unit

Analogue converter with **1 kHz data acquisition and 24-bit** resolution, achieving a force resolution that enables the **HBM** load cells to be fully exploited over their full operating range.
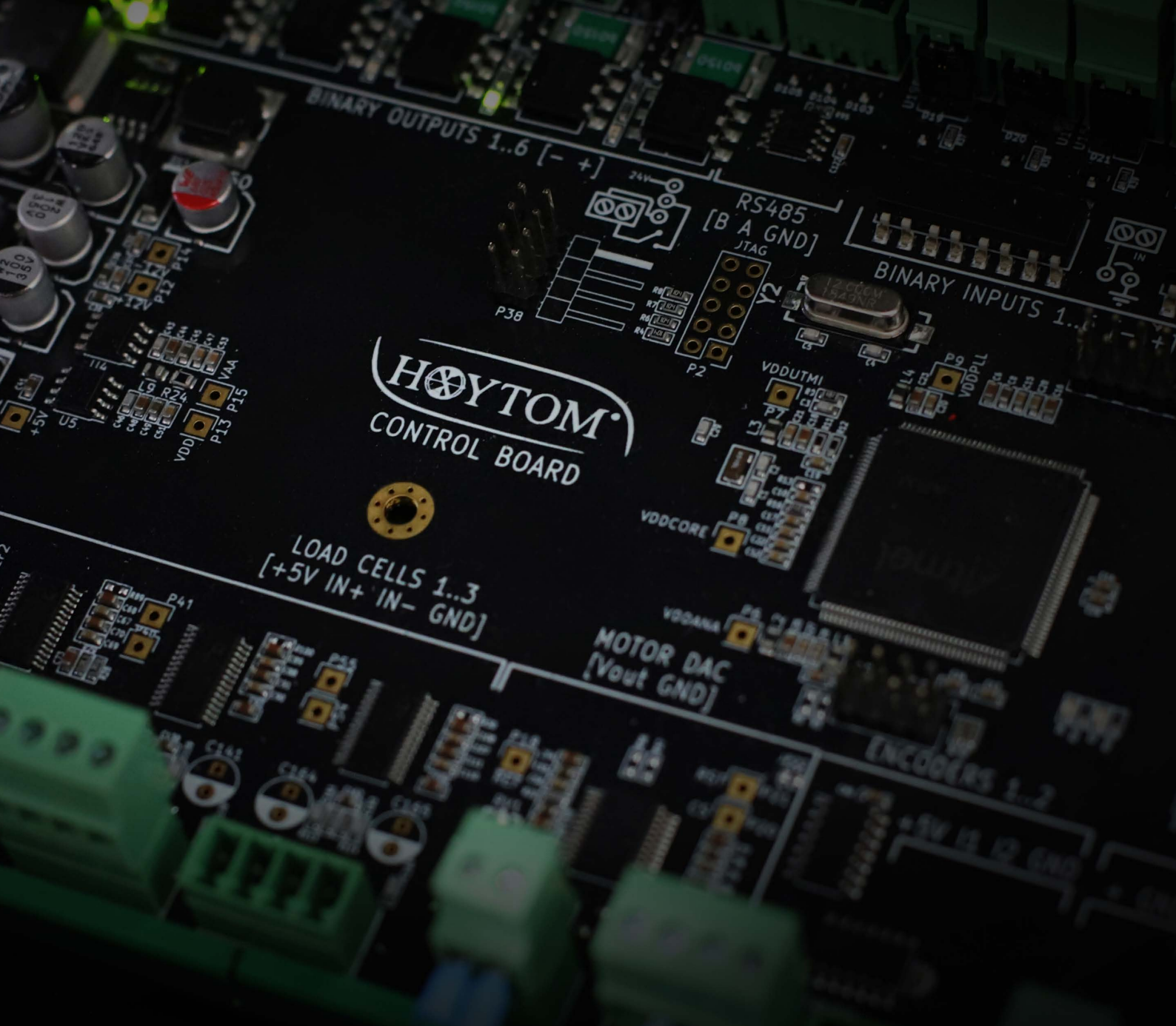
Excellent stability and scale range.

Scalable system that can be adapted to new transducers in the future.

Wired remote control
Smart | Remote

The HoyWin **Smart | Remote** enables the user to control the movement of the machine.

Its ergonomic **and practical design** and its **large display** provide ideal handling and information legibility when setting up and configuring a test.

The **HoyWin® software** is available for Hoytom testing machines. HoyWin® has been designed to be an **extension of our testing instruments**, providing efficient operation and **powerful analytical tools for each test**.
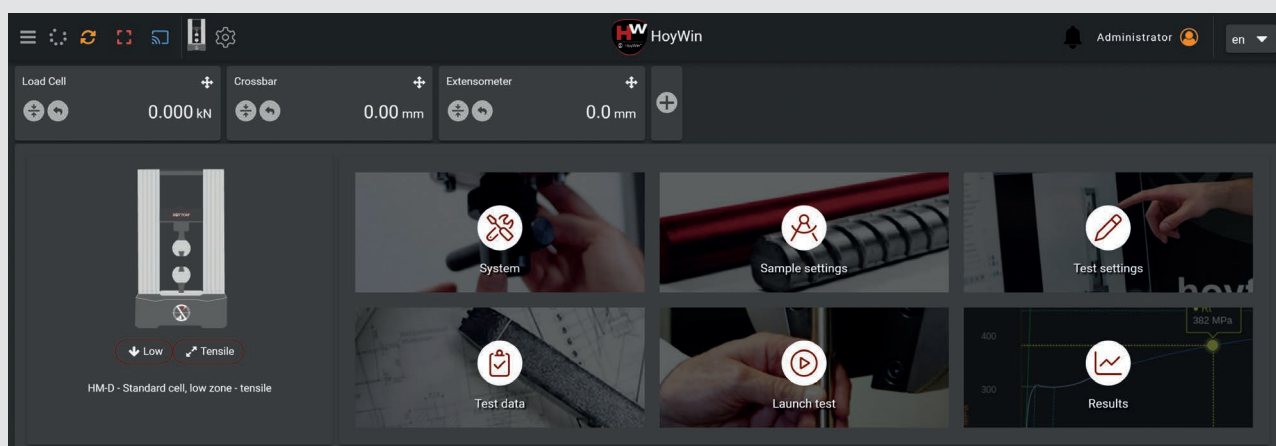

HoyWin® meets the requirements recommended in "Annex A" to standard ISO 6892-1 on the validation of project software, under the TENSTAND project funded by the European Union.

Creation of machine control files

Predefined control files for executing main tests according to international standards. Test speed based on strain rates (Method A) and on stress rates (Method B) according to EN ISO 6892-1 and ASTM E8. Easy user programming of different machine control files, for the definition of other required tests.
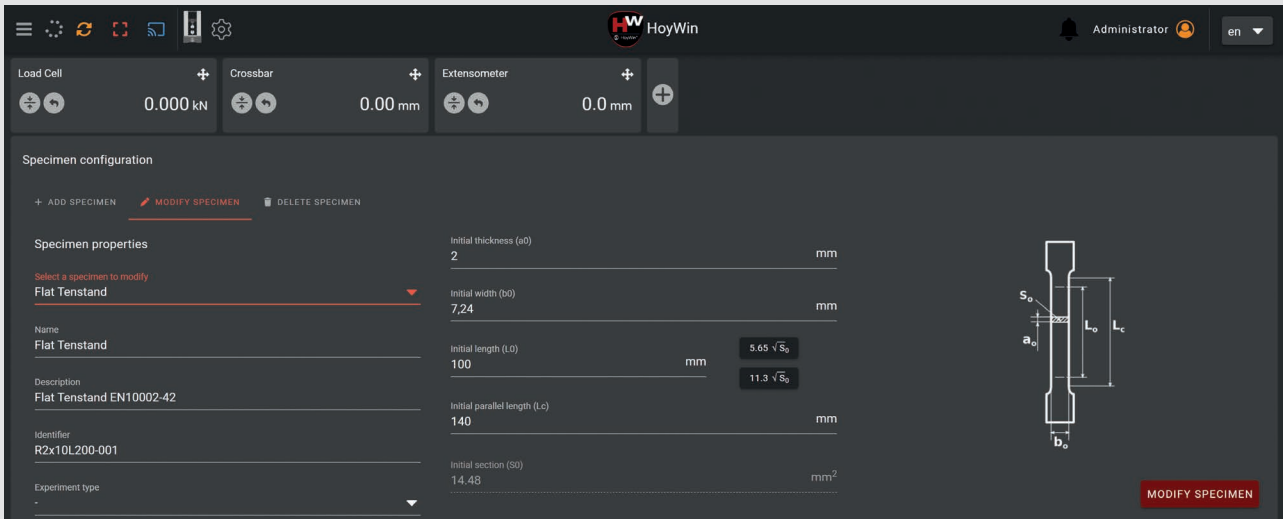
These steps can be adjusted for:

- Stress rate (MPa s^{-1})
- Strain rate (s^{-1})
- Parallel length strain rate (s^{-1})
- Grip separation rate (mm s^{-1})
- ....
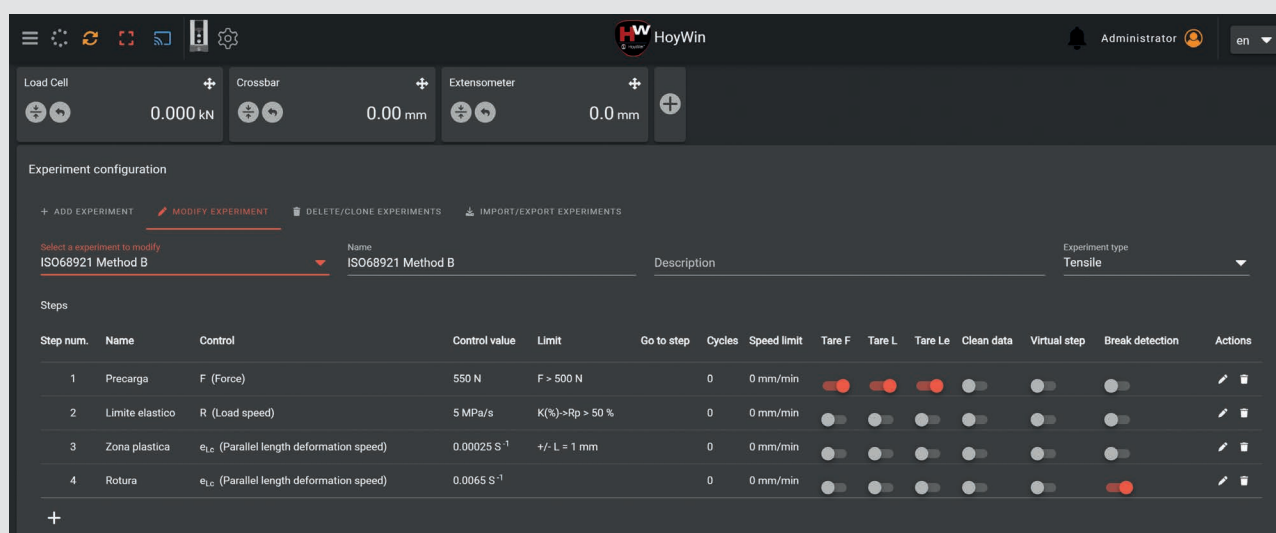
Creation of specimen files for the definition of

- Test piece type
- Test piece dimensions
    - Original cross-sectional area of the parallel length (S_0)
    - Original gauge length (L_0)
    - Parallel length (L_c)
   - Extensometer gauge length (L_e)

Calculations performed

The HoyWin® program meets the requirements in "Annex A" of standard EN ISO 6892-1 regarding data sampling frequencies, in addition to the validation of machine software. The software can be validated using the files created by the TENSTAND project, funded by the European Union www.npl.co.uk/tenstand

The program is configured for each customer to display different calculations:

- R_m Tensile strength
- R_{eH} Upper yield strength
- R_{eL} Lower yield strength
- R_p Plastic extension
- R_t Total extension
- E Modulus of elasticity
- A Percentage elongation after fracture
- ...
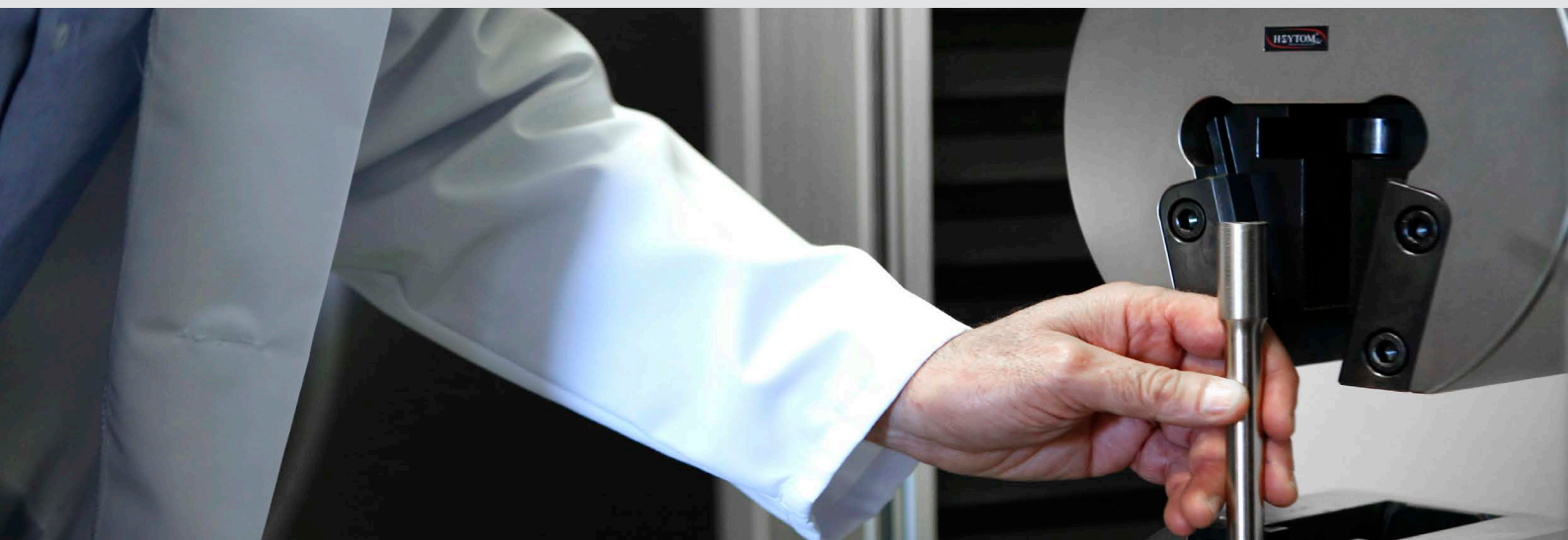
Data and chart visualisation

- Real-time chart visualisation during test execution.
- Option for the simultaneous visualisation of up to 5 different parameters.
- Manual selection of chart scales and SI units (International System of Units).
- Zoomable critical chart areas.
- On-screen comparison between different charts.
- Save charts to later visualisation and analysis, even from another PC.
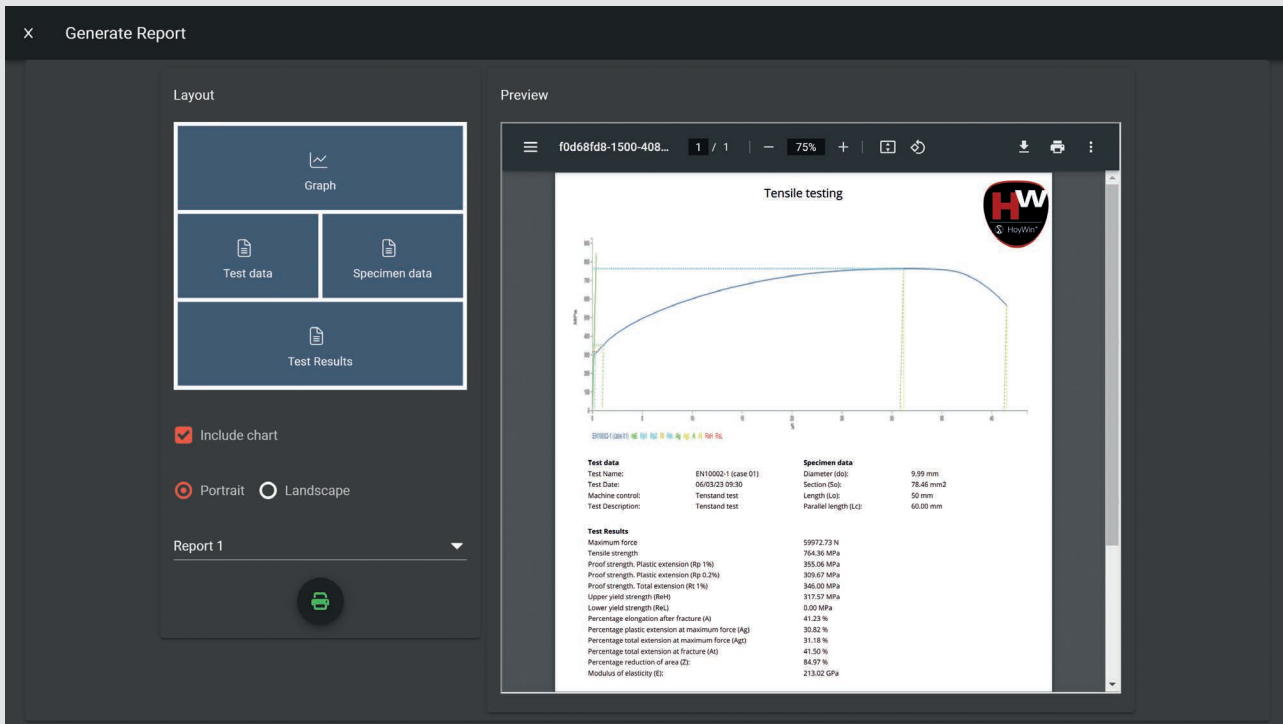
Test speed based on strain rates (Method A) and on stress rates (Method B) according to EN ISO 6892-1 and ASTM E8.

The HoyWin® software is available for Hoytom testing machines. It may also be installed, together with the electronics, on modernisations for other brand machines.

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