

Fully Automated Universal Testing System "Enhanced" for Metallic Materials

Testing System "Enhanced" with portal loader for automated tensile tests on metallic specimens according to ISO 6892, EN 10002-1, ASTM A370-09, GOST 1497-84 and other standards.

Features

- The versatile handling system can be adapted to electromechanical or servohydraulic testing machines up to 3000 kN capacity and can be extended to serve more than one materials testing machine.
- Apart from loading the samples into the magazine and starting the system, the testing procedure is completed without any human interference or operation.
- The state-of-the-art standard configuration includes sample magazine (size according to the sample dimensions and quantity), portal loader with suitable gripper, barcode-reader, cross-section measuring unit, suitable testing machine with grips, fully-automatic or non-contacting extensometer, disposal box, protection device, high resolution digital controller **PCS 8000** and materials testing software **DION 7**.
- The application software **DION 7 AUTO** provides automatic tests sequences, selection of correct template according to different standards for each sample with result calculation and data export to host computer.
- The system allows testing samples with different cross-section and according to different standards within the same test series.
- A periodically check of the cross-section measurement unit is carried out automatically through reference samples.
- Optional measuring units can be integrated into the test system for further material characterization.
- Beside of the fully automatic mode the system can be operated manually as well. For this the gripper is moved to its parking position for unrestricted access to the testing machine.
- The system complies with the international safety regulations and new CE machinery directive.



Example of "Enhanced" Testing System with Servohydraulic Universal Testing Machine Type TTM 2000 kN

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Testing Software DION 7 AUTO



Automatic sample handling out of the magazine



Barcode reader and cross sectional measurement



Loading and unloading of the testing machine



Dropping of broken sample into disposal box

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