

... From development to  
implementation

**Labor Tech<sup>®</sup>**

## Production of materials testing equipment and automation

### Electromechanical testing machine LabTest MCS-20

Made in Czech Republic





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### Basic description

The special **LabTest MCS test** set is intended for testing copper springs according to GOST 28515-97 and BS EN 12893: 2000. The machine allows not only testing of copper samples on 3 separate test rooms, but also their quick preparation on a winding device. The required testing process is set by the SIMATIC PLC control system. All evaluation and control of the test is performed via the operating LCD display.



### Main advantages and functions

- 3 separate test rooms with automatic monitoring of the release of the test standard weight from the test support according to the defined speed.
- Test algorithm ensuring accurate and fast testing of a copper sample according to EN and GOST standards
- Winding mechanism with the possibility of setting the winding length or the number of speed depending on the diameter of the spring sample.
- Intelligent monitoring of the positioning position at measuring and winding mechanism.
- Special mechanism for storing of drive speeds.
- Control and operation of the machine via the SIEMENS touch LCD display with integrated intuitive MCS software for separate workspaces.



[Play video](#)



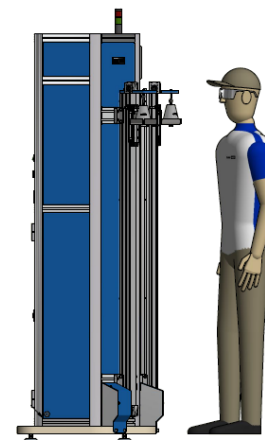
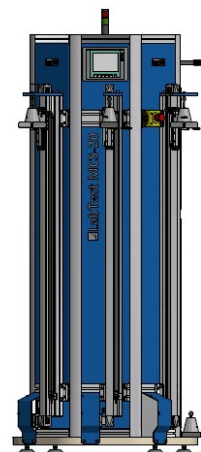
### Measuring and control machine electronics

- Centrally located controls for easy operation and testing on the test system.
- The electronics and control of the machine are driven by an AC servo drive. They are also integrated directly into the construction design together with the software installed in the Simatic PLC safety system with electromechanical interlock.
- Control is provided by a touch screen with electronic display of test definitions, time course of tests, etc.



### Safety and durability requirements

- LABORTECH machines, based on their design and construction, comply with all of the above EC Machinery and Equipment Directives.
- The customer always receives an EC declaration of conformity.
- Only state-of-the-art safety technology and proven industrial components operating in accordance with the new ENB ISO 13850-SIL 1 / PL safety features are used.
- Spare parts are available 10 years after the end of the machine type production.



### Software basic functions®

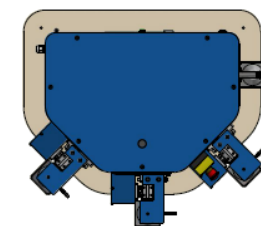
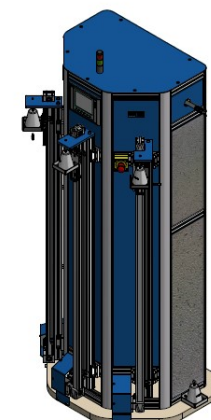
- Intelligent software intended for copper spring and threaded wire controlling
- Software ensure synchronous multiaxial operating of 3 testing work spaces and workplace for sample preparation at the same time .



- 9 languages mutations (Cz, En, Ge, Fr, Pol, It, Sp, Ru, Du)
- Software security of the Trigger Alarm at the end and abrupt interruption of the test
- Service message indicator.

### Warranty and post-warranty service

- For every pendulum impact tester we deliver, we guarantee customer service. **EXPERTISE, ACCURACY, and SPEED** is our priority
- Every customer can choose: Standard Service, Service 24 or LABWEBServis 24.





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## LABORTECH in the world

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