



## **Product Information**

# Robotic Testing System 'roboTest L' (Linear) for Metals



Robotic testing system 'roboTest L' for metals

## Application

The robotic testing system is used for the fully automatic performance of tensile tests on metallic specimens (e.g. according to DIN EN 10002-1, ISO 6892, ASTM E8, JIS Z2201).

### System Configuration

- Materials testing machine 5 kN up to 250 kN with symmetrically closing, pneumatic or hydraulic specimen grips and optional extensometer
- Robotic feeding system 'roboTest L' including motorized magazine table and safety unit (for CE certification)
- Barcode scanner (optional)
- Cross-section measuring device (optional)
- Industry Controller with test software testXpert<sup>®</sup> and automation software autoEdition2

# Advantages of the Robotic Testing System 'roboTest L'

- A high reproducibility of the test results is obtained because operator influences are excluded (hand temperature, moist hands, eccentric or inclined insertion of specimens etc.).
- Qualified laboratory staff is relieved of routine jobs and is thus available for more complex activities.
- The machine can be used during idle times (break, night shift) and thus increases the rate of utilization and allows "quicker" results.
- The modular system makes an economical adaptation to specific customer requirements possible.
- The system reduces the testing costs per specimen and usually pays off within one to two years.
- Manual tests are still possible by simply moving the robotic feeding system aside.
- Due to the precise centering of the specimen in the cross-section measuring device and the automation of the measuring sensors, the specimen dimensions can be exactly measured.
- The usage of state-of-the-art web-technologies ensures a constant process control and remote diagnostics of the robotic testing system. Results as well as status messages can be sent directly per email or SMS.
- The automatic data logging system ensures secure documentation and enables statistical long-term monitoring (Statistical Process Control).
- The components of the robotic testing system are not subject to wear; they are maintenance-free and designed for three-shift operation.



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Specimen feeding to the cross-section measuring device

#### **Test Sequence**

- The user fills the removable specimen magazine at the specimen preparation or directly on the test system. The magazin will be placed on the magazine table.
- The specimen data (ident number, width, thickness,...) are entered on the PC. In barcode operation this step can be omitted.
- After the startup of the system, specimen feed, test and removal of the specimen fragments are carried out automatically.
- After testing of all magazined specimens the magazine can be refilled or changed by a prepared insert. A refilling of specimens in empty magazine places is possible at any time.

### **Technical Data**

Mechanics	
Mounting	coupled to the load frame
Dimensions (H x W x D)	12001) x 13402) x 1540 mm
Weight	approx. 350 kg
	(without specimens, depends
	on the equipment)
<sup>1)</sup> depends on the load frame	
<sup>2)</sup> incl. motorized magazine table; additional travel: 990 mm	

<b>Connected values</b>	
Electrical connection	230/115 V
Output	approx. 200 VA
Mains frequency	50/60 Hz
Compressed air	6 bar
Required compressed air	10 lpm

#### Control

Automation autoEdition2 Peripheral connection PROFIBUS

#### Specimens

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Specimen type	dumbbells, stripes
Specimen gripper	pincer gripper
Capacity	max. 160 (depends on
	specimen dimensions)
Material	dimensionally stable,
	non-adhesive
Weight	max. 1 kg
Length	max. 300 mm
Shoulder width (flat)	20 40 mm
Diameter (round)	2 20 mm
Thickness	0.1 16 mm

#### Options

- Specimen identification by barcode
- Cross-section measuring
  - (1 or 3 measurements per specimen)
- Specimen disposal gripper
- Good/Bad sorting
- Data exchange with superior processor systems (e.g. LIMS) via upload/download of ASCII-files or ODBC
- Optical status indicator by threefold "traffic light" (running, refill specimens/finished, error)



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All data at ambient temperature.

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