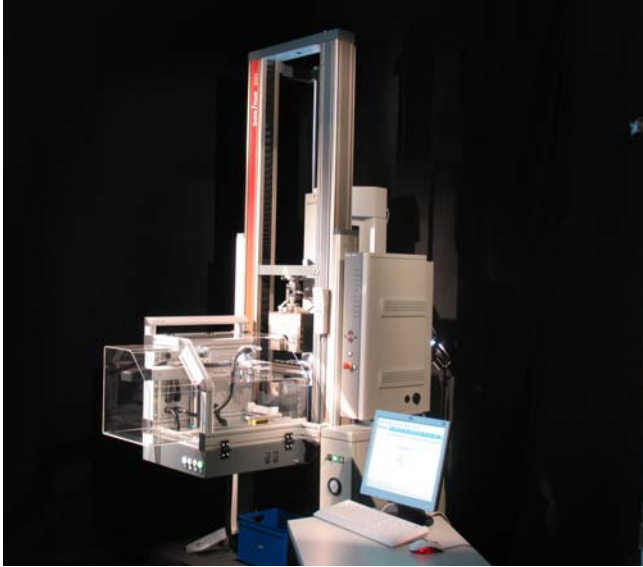# Product Information
Robotic Testing System 'roboTest B' (Compact)

Robotic testing system 'roboTest B' with testing machine 20 kN

Pincer gripper removes a specimen from the magazine

Applications

The robotic testing system is used for the fully automatic performance of:

- Tensile tests on plastics specimens
  (e.g. according to ISO 527-2, ISO 3167, ASTM D638)

- Flexure tests on plastics specimens
  (e.g. according to ISO 178)

- Tensile or flexure tests on dimensionally stable specimens of other materials

System Configuration

- Materials testing machine 5 kN up to 100 kN
  with symmetrically closing, pneumatic or hydraulic specimen grips and an optional extensometer

- Robotic feeding system 'roboTest B' with integrated magazine for max. stacking height 80 mm (for typically 20 specimens)

- Industry Controller with test software *testXpert*® and automation software autoEdition2

Advantages of the Robotic Testing System 'roboTest B'

- 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) thus increasing the rate of utilization and allowing „quicker" results.

- The system reduces the testing costs per specimen and usually pays off within one to two years.

- Manual tests are still possible by simply pushing the robotic feeding system aside.

- The automatic data logging system ensures secure documentation and enables statistical long-term monitoring (Statistical Process Control).

Zwick
Materials Testing

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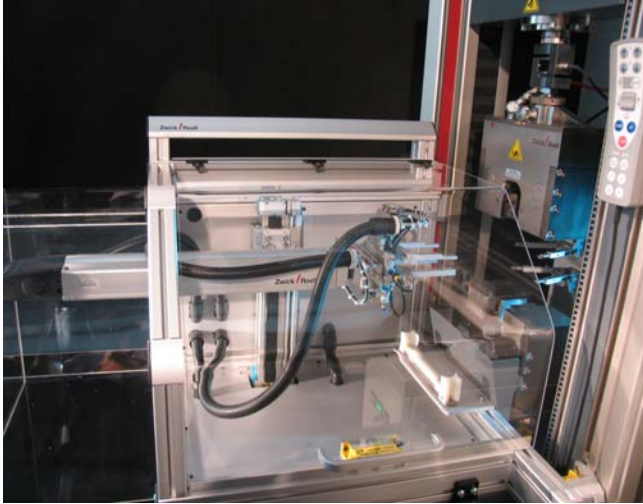
Robotic testing system 'roboTest B'

Test Sequence

- The user fills the specimen magazine directly on the test system.

- 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 on the PC, specimen feed, tensile/bending test and removal of the specimen fragments are carried out automatically.

Technical Data

Mechanics	
Mounting	swivellable at the load frame
Capacity	20 specimens (thickness 4 mm)
Dimensions (H x W x D)	680 x 680[1] / 840[2] x 930 mm
Weight	approx. 85 kg
	(without specimen)

[1] Load frame in profile design
[2] Load frame in column design

Connected values	
Electrical connection	230/115 V
Output	200 VA
Mains frequency	50/60 Hz
Compressed air	6 bar
Required compressed air	2 lpm

Control	
Automation	autoEdition2
Peripheral connection	PROFIBUS

Specimens	
• Specimen type	dumbbells, stripes
• Material	dimensionally stable, non-adhesive
• Weight	max. 100 g
• Length	80 ... 220 mm
• Width	15 ... 30 mm
• Thickness	4 mm

Options	
• Specimen identification by barcode	
• Specimen remains 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)	

All Data at ambient temperature.