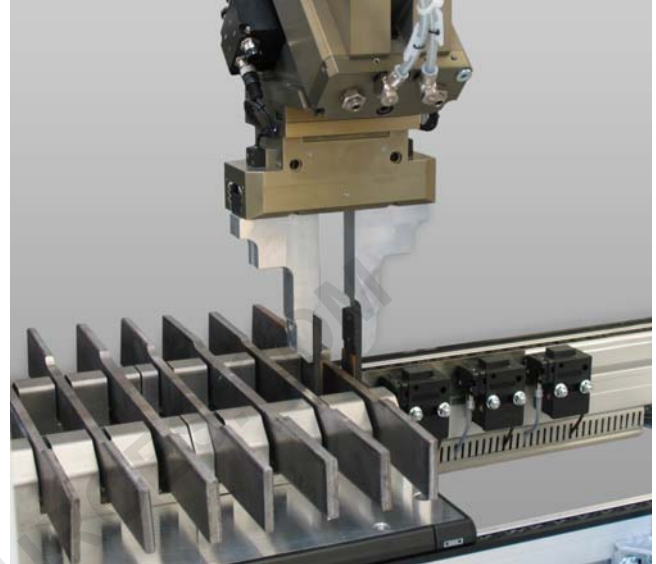


Product Information

Robotic Testing System 'roboTest C' (Compact)



Robotic testing system 'roboTest C' with testing machine 600 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:

- Metal specimens (e.g. according to DIN EN10002-1, JIS Z2201, ASTM E8)
- Dimensionally stable specimens of other materials

System Configuration

- Materials testing machine 300 kN up to 600 kN with symmetrically closing hydraulic specimen grips and an optional extensometer
- Robotic feeding system 'roboTest C' with magazine for 24 or 40 specimens
- Industry Controller with test software *testXpert*[®] and automation software *autoEdition2*

Advantages of the Robotic Testing System 'roboTest C'

- 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).

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Feeding of the specimen to the testing machine

Test Sequence

- The user fills the specimen magazine directly on the test system. A refilling of specimens in magazine places that were not yet worked off is possible at any time.
- 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 test and removal of the specimen fragments are carried out automatically.

Technical Data

Mechanics

| | |
|------------------------|--------------------------------------|
| Mounting | coupled to the load frame |
| Capacity | 24 specimens / 40 specimens |
| Dimensions (H x W x D) | 2200 x 2600 x 800 mm |
| Weight | approx. 200 kg (without specimen) |

Connected values

| | |
|-------------------------|-----------------|
| Electrical connection | 3x 400V 3L/N/PE |
| Output | 2 kVA |
| Mains frequency | 50/60 Hz |
| Compressed air | 6 bar |
| Required compressed air | 10 lpm |

Control

| | |
|-----------------------|--------------|
| Automation | autoEdition2 |
| Peripheral connection | PROFIBUS |

Specimens

| | |
|-----------------|--|
| • Specimen type | dumbbells, stripes, tubes, round or profile specimens |
| • Material | dimensionally stable, non-adhesive |
| • Weight | max. 5 kg |
| • Length | max. 450 mm |
| • Width | max. 60 mm |
| • Thickness | max. 30 mm |

Options

| |
|--|
| • Specimen identification by barcode |
| • Specimen remains sorting |
| • Data exchange with superior processorsystems (e.g. LIMS) via upload/download of ASCII-files or ODBC |
| • Optical status indicator by threefold „traffic light“ (running, refill specimens/finished, error) |