

**Lonos Test**

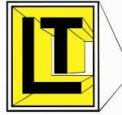
**Macchine prova materiali  
Testing Machines**



## **CREEP-TESTING MACHINES**

Nr. Datasheet: **A17-0-01**

Model: **TCN 20 - TCN 30 - TCN 50**



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## Product Description

The range of TCN creep-testing machines combines mastery about systems for testing materials with thermal skills. Turnkey solution, available in two versions: 1000 °C or 1200 °C of temperature, the TCN machines allow to perform tests with great flexibility and high precision.

### CONTROL SOFTWARE:

The control software ensures the management of the tests on the TCN machines for creep tests, allowing both control and monitoring of the tests in progress, in interactive and real-time way.

Acquisition and recording of test data are made directly by the TCN controller integrated in each machine, regardless of the PC for network monitoring.

The control software in the same manner allows the configuration of test profiles (recipes) as well as the temperature ramps and temperature maintenance thanks to the functions of zero stress, strain, application of the load on the specimen, automatic level of leverage, alarm parameters and other controls of the test. Data files are in CSV format and used directly in Excel.

In option, we propose a software to track test curves and to calculate the Creep parameters and that will allow you to customize your test reports with test curves.

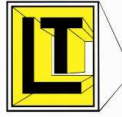
### PERFORMANCE AND SERVICES PROVIDED:

At your disposal our qualified engineers and technicians, offering you a whole series of benefits and services on your old creep-testing machines:

- Electric retrofitting
- Restarting and replacement of furnaces
- Commissioning of a digital system for measuring displacement and strength
- Commissioning of a smart system (controller and card for data acquisition)
- Adding a control system, a tracking system of curves and data recording system

### **Lonos Test S.r.l.**

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## Technical Features

<u>Models</u>	<u>Capacity</u> [ kN ]	<u>Temperature</u> [ C° ]	<u>Item code</u>
TCN 20	20	1000	AACRAT001
TCN 20	20	1200	AACRAT002
TCN 30	30	1000	AACRAT003
TCN 30	30	1200	AACRAT004
TCN 50	50	1000	AACRAT005
TCN 50	50	1200	AACRAT006

### Mechanical

- Accuracy class : 0.5 (according to ISO 7500-2)
- Frame :4 columns with high stiffness
- Loading method : progressive
- Automatic Alignment System
- Dimensions (WxDxH) : 500 x 950 x 2045 mm

### Termical

- Furnace with three areas, available in two versions:
  - 1000 °C (resistance power 2100W)
  - 1200 ° C (chromite power 3000W)
- Insulating refractory material not classified CMR
- Homogeneity class: according ISO 204 on specimens

### Measuring

- Displacement sensors in 3 versions:
  - LVDT
  - capacitive
  - optical operating type Heindenhein
- Load cell with accuracy class 0.1% (optional)

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