



**(A001) TC1
UNIVERSAL TESTING MACHINE
Capacity 1 kN (225 lbf)**

Electromechanical computerized universal testing machine, TC series single hollow test, developed for the measurement of mechanical strength of the materials under load. Depending on the needs and the types of materials, it can perform testing of tensile, compression, bending, breaking tests, bend, extension, tension, force limit, deformation limit, dishing, etc., According to the most common international standards ISO, ASTM, EN and UNI. The structure is a study from two columns and the moving crosshead driven by pre-loaded ball screws with zero backlash to ensure the accuracy of motion. The movement and the crosshead speed is controlled electronically by 24-bit microprocessor. The machine is controlled through **TCSOFT2004Plus** software for MS® Windows 7 Operating System, at all stages of diagnostics, calibration and performance test.

The supply included :

- Load Cell of 1kN (225 lbf) tensile/compression
- Personal computer
- Color Deskjet printer A4 format
- Manuals instruction
- ACCREDIA Calibration certificate LAT
- TCSOFT2004Plus software (A007)

The accessories to effect all the tests have to be ordered separately.

TECHNICAL CHARACTERISTICS :

1 kN 0.01N	Load Capacity Resolution	225 lbf 0.01 lbf
0.5	Class ISO 7500-1 (dal 2% al 100% f.s.)	0.5
500 mm/min 0.1 mm/min 500 mm/min	Maximun Speed Minimun Speed Return Speed	19.69 in./mm 0.004 in./mm 19.69 in./mm
2 kN/mm	Stiffness frame	11420 lbf/in.
770 mm	Crosshead Travel without accessories	30.3 in.
540 mm	Crosshead Travel with tensile heads (TH240+2Ko)	21.3 in.
300 mm	Column Spacing	11.81 in.
72 kg	Weight	159 lb
100 mm	Depth of the vertical axis of load	3.94 in.
405 x 405 x 1375 mm	Dimensions width x depth x height	15.9 x 15.9 x 54.1 in.
+ 10 °C / + 35 °C	Operating Temperature	+ 50 °F / + 90°F
10 % / 80 %	Relative Umidity	
240V 1ph 50Hz + T	Power Supply*	
100 VA	Max Power Absorbed	

* On request POWER SUPPLY : 115V 1ph 60Hz +T

A001-A100

PNEUMATIC TENSILE GRIPS

A couple of Tensile grips with pneumatic operation. Maximum capacity 1kN (225 lbf).

Complete with push button for opening and closing jaws, pressure regulator with filter and pressure gauge.

The Jaws are ordered separately.

A001-A101

BLANK JAWS

1 Set of 4 jaws 30x30 mm with smooth surfaces.

For specimens with thickness from 0 to 10 mm.

Applicable for own further treatments. Steel blanks without coating.

A001-A102

RUBBER JAWS

1 Set of 4 jaws 30x30 mm with 1 mm rubber coating (NBR).

For specimens with thickness from 0 to 8 mm.

A001-A103

PYRAMID JAWS

1 Set of 4 jaws 30x30 mm with pyramid surfaces.

For specimens with thickness from 0 to 10 mm.

Pyramid 1.2 x 45°, Hardened steel 58HRC.

A001-A104

BV2 JAWS

1 Set of 4 jaws for round sample with Ø from 2 to 9 mm and 30 mm length.

A001-A105

WAVE JAWS

1 Set of 4 jaws 30x30 mm with wave 5 mm surfaces.

For Flexible materials specimens with thickness from 0 to 5 mm.

A001-A106

DIAMOND JAWS

1 Set of 4 jaws 30x30 mm with surfaces coated with synthetic diamonds D91 (170/200 mesh)

For specimens with thickness from 0 to 10 mm.

A001-A200

SILENT COMPRESSOR LABORATORY

With pressure regulator output filter and pressure gauge.

Maximum operating pressure: 8 bar - Noise Level 40dB (A)

Power Supply: 230V 50Hz + T (** On request Power Supply 110V/120V 1ph 60Hz + T)

Power 1/2 HP

Tank capacity: 15 liters.

Dimensions: 350x350x540 mm (WxDxH)

Weight: 22kg

A005-A111 EQUIPMENT FOR COMPRESSION TESTS

Constituted of a pair Steel platens Ø 116 (4.57 in.), hardened steel, 58 HRC, phosphate.

A005-A111-S COMPRESSION PLATE SPHERICALLY SEATED

One plate spherically seated compression self-aligning Ø 116 mm (4.57 in.). Hardened steel, 58 HRC, phosphate.

A005-A112 DEVICES FOR FLEXURAL/BENDING TESTS

Device for bending and flexural tests on 3 points.

Diameter upper anvil 10 mm (0.39 in.)

Diameter lower supports 6.4 and 10 mm (0.25 and 0.39 in.).

Support span from 4 to 290 mm (from 0.16 to 11.4 in.)

OTHER ACCESSORIES ARE AVAILABLE ON REQUEST

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