



**A009 (TC100)
UNIVERSAL TESTING MACHINE
Capacity 100 kN (22481 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 sturdy frame 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 **LBG HIGH TOWN** software for MS® Windows 7 Operating System, at all stages of diagnostics, calibration and performance test.

The supply included :

- Load Cell of 100kN (22481 lbf) tensile/compression
- Personal computer
- Color Deskjet printer A4 format
- Manuals instruction
- ACCREDIA Calibration certificate LAT
- LBG HIGH TOWN software (A007)

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

TECHNICAL CHARACTERISTICS :

100 kN 0.01kN	Load Capacity Resolution	22481 lbf 1 lbf
0.5	Class ISO 7500-1 (dal 2% al 100% f.s.)	0.5
350 mm/min 0.1 mm/min	Maximun Speed Minimun Speed	13.78 in./mm 0.04 in./mm
350 mm/min	Return Speed	13.78 in./mm
120 kN/mm	Stiffness frame	655218 lbf/in.
1100 mm	Crosshead Travel without accessories	43.3 in.
390 mm	Crosshead Travel with tensile heads A009-A100	15.35 in.
390 mm	Column Spacing	15.35 in.
375 kg	Weight	827 lb
820 x 605 x 2180 mm	Dimensions width x depth x height	32.28 x 23.82 x 85.83 in.
+ 10 °C / + 35 °C	Operating Temperature	+ 50 °F / + 90°F
10 % / 80 %	Relative Umidity	
240V 1ph 50Hz + T	Power Supply*	
850 VA	Max Power Absorbed	

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

STANDARD ACCESSORIES :

A009-A100 TENSILE HEADS

A pair of tensile heads for manual operation with seats. For grip pliers have to be ordered separately.
Maximum capacity 100 kN (22481 lbf).

A009-A101 GRIPS

A pair, with plain tightening surfaces applicable to specimens with thickness from 0 to 10 mm (0 to 0,39 in.) and until 55x65 mm (2.16x2.56 in.) (width x length). The grips have to be lodged in the tensile head A014-A100.

A009-A102 GRIPS

A pair, with plain tightening surfaces applicable to specimens with thickness from 10 to 20 mm (0.39 to 0.79 in.) and until 55x65 mm (2.16x2.56 in.) (width x length). The grips have to be lodged in the tensile head A014-A100.

A009-A103 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 5 to 10 mm (0.18 to 0.39 in.) and 65 mm (2.56 in.) length. The grips have to be lodged in the tensile head A014-A100.

A009-A104 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 10 to 17 mm (0.39 to 0.67 in.) and 65 mm (2.56 in.) length. The grips have to be lodged in the tensile head A014-A100.

A009-A105 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 17 to 25 mm (0.67 to 0.98 in.) and 65 mm (2.56 in.) length. The grips have to be lodged in the tensile head A014-A100.

A009-A106 GRIPS

A pair of grips with "V" plain tightening surfaces, applicable to specimens with diameter from 25 to 32 mm (0.98 to 1.26 in.) and 65 mm (2.56 in.) length. The grips have to be lodged in the tensile head A014-A100.

A009-A109 SAFETY PROTECTION

Polycarbonate transparent protection, with front with shutters, and rear panel fixed. Completely with electromagnetic system and safety switch.

A009-A111 EQUIPMENT FOR COMPRESSION TESTS

Consist of one upper plate spherically seated compression self-aligning Ø 100 mm (3.94 in.) and one lower plate plane Ø 150 mm (5.90 in.). Steel made 58HRC. Maximum capacity 100kN (11240 lbf)

A009-A112 EQUIPMENT FOR BENDING TESTS / BEND

Capacity 100kN (22481 lbf)

Device for bending tests and 3-point bending.

Distance between supports adjustable from 30 to 250 mm.(1.18 to 9.84 in.).

With inverted supports up to 330 mm (12.99 in.)

Set of diameter rollers 10, 20, 30 mm (0.39, 0.79, 1.18 in.). Made of steel.

OTHER ACCESSORIES ARE AVAILABLE ON REQUEST

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