



**A014 (TC200)
UNIVERSAL TESTING MACHINE
Capacity 200 kN (44962 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 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 200kN (44962 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 :

200 kN 0.01kN	Load Capacity Resolution	44962 lbf 2 lbf
0.5	Class ISO 7500-1 (dal 2% al 100% f.s.)	0.5
270 mm/min 0.1 mm/min	Maximun Speed Minimun Speed	10.63 in./mm 0.4 in./mm
270 mm/min	Return Speed	106 in./mm
240 kN/mm	Stiffness frame	1370435 lbf/in.
1100 mm	Crosshead Travel without accessories	43.3 in.
300 mm	Crosshead Travel with tensile heads A006-A100	11.81 in.
390 mm	Column Spacing	15.35 in.
600 kg	Weight	1323 lb
900 x 705 x 2400 mm	Dimensions width x depth x height	35.4 x 27.8 x 94.5 in.
+ 10 °C / + 35 °C	Operating Temperature	+ 50 °F / + 90°F
10 % / 80 %	Relative Umidity	
240V 1ph 50Hz + T	Power Supply*	
1500 VA	Max Power Absorbed	

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

STANDARD ACCESSORIES :

A014-A100 TENSILE HEADS

A pair of tensile heads for manual operation with seats. For grip pliers have to be ordered separately.
Maximum capacity 200kN (44962 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 35 mm (0.98 to 1.37 in.) and 65 mm (2.56 in.) length. The grips have to be lodged in the tensile head A014-A100.

A014-A109 SAFETY PROTECTION

Polycarbonate transparent protection, with front with shutters, and rear panel fixed. Completely with electromagnetic system and safety switch. Available depth of the test chamber with door closed 300 mm (11.81 in.).

A014-A111 EQUIPMENT FOR COMPRESSION TESTS

Consist of one upper plate spherically seated compression self-aligning \varnothing 100 mm (3.94 in.) and fixable and a lower plate plane \varnothing 150 mm (5.90 in.). Steel made 58HRC. Maximum capacity 200kN (134885 lbf).

A014-A112

EQUIPMENT FOR FLEXURAL / BENDING TESTS

Capacity 200kN (44962 lbf)

3-point flexural / bending device, Steel made.

Distance between supports adjustable from 50 to 250 mm (1.97 to 19.68 in.).

Upper diameter roller 10 mm (0.98 in.)

Lower Set of diameter rollers 50 and 100 mm (1.97 and 3.94 in.).

OTHER ACCESSORIES ARE AVAILABLE ON REQUEST

LBG srl

Via PETRARCA, 5 – 24052 AZZANO S. PAOLO (BG) – ITALY

Tel. +39 035 536762 – Fax +39 035 536049

E-mail: info@lbg srl.com URL: www.lbg srl.com

