



### **A004 (TC5) UNIVERSAL TESTING MACHINE Capacity 5 kN (1124 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 5kN (1124 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 :**

5 kN 0.001kN	Load Capacity Resolution	1124 lbf 0.2 lbf
0.5	Class ISO 7500-1 (dal 2% al 100% f.s.)	0.5
500 mm/min 0.1 mm/min	Maximun Speed Minimun Speed	19.69 in./mm 0.04 in./mm
500 mm/min	Return Speed	19.69 in./mm
13 kN/mm	Stiffness frame	74232 lbf/in.
950 mm	Crosshead Travel without accessories	37.40 in.
460 mm	Crosshead Travel with tensile heads A006-A100	18.11 in.
290 mm	Column Spacing	11.42 in.
138 kg	Weight	304 lb
610 x 480 x 1520 mm	Dimensions width x depth x height	24.0 x 18.9 x 59.8 in.
+ 10 °C / + 35 °C	Operating Temperature	+ 50 °F / + 90°F
10 % / 80 %	Relative Umidity	
240V 1ph 50Hz + T	Power Supply*	
350 VA	Max Power Absorbed	

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

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## **STANDARD ACCESSORIES :**

### **A005-A100 TENSILE HEADS**

A pair of tensile heads for manual operation with seats. For grip pliers have to be ordered separately.  
Maximum capacity 10kN (2248 lbf).

### **A005-A101 GRIPS**

A pair, with plain tightening surfaces applicable to specimens with thickness from 0 to 10 mm (0 to 0,394 in.) and until 28 mm (1.10 in.) width and 65 mm (2,56 in.) in length. The grips have to be lodged in the tensile head A005-A100.

### **A005-A102 GRIPS**

A pair, with plain tightening surfaces applicable to specimens with thickness from 3 to 6 mm (0,12 to 0,24 in.) and 65 mm (2,56 in.) in length. The grips have to be lodged in the tensile head A005-A100.

### **A005-A109 SAFETY PROTECTION**

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

### **A005-A111 EQUIPMENT FOR COMPRESSION TESTS**

Costitued 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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