

Footwear rigidity tester

EL-12 (manual) EL-12M (automatic)



This equipment is intended to measure the rigidity of the complete footwear, to determine if it should be subjected to the 'BENNEWART' flexing test.

After properly clamped the test specimen (whole shoe) is subjected to a force of 30 N applied to the plane of the hinged table at a distance of 315 mm. from the centre of the hinge. The flexed angle is then read and for footwear whose angle under the applied force is lower than 45° from the horizontal should not be subjected to the flexing test.

EL-12 is a manual hand-operated version, so it doesn't allow to control the flexing speed according to the standard specification, depending of the operator control. While the automatic system, model EL-12M assures accurately a bending rate of 100 ± 10 mm/min until an angle of 45° is reached.

EL -12 (manual)

- metal hinged table fixed to the machine structure;
- adjustable clamping device to fix the forepart of the footwear to the solid static base;
- suitable sensor to acquire the force;
- a force digital display (in Newtons)

EL-12M (automatic) features

- Control through touchscreen HMI interface;
- PLC automated;
- Load cell, capable of measuring forces from 0 N to 50 N, to a tolerance of 1 %;
- Bending rate of (100 ± 10) mm/min until an angle of 45° is reached;
- Automatic return to zero;
- Flat rigid horizontal platform;
- Flexing arms with angle regulation from 1 to 50 degrees;
- Angle displaying at a rate of 0,5 degrees;
- Contact bar with load cell to display the force value in Newton, according to Standards;
- USB port to save data into USB portable data storage;
- Graphical displaying

Supplied with: operating instructions, conformity/calibration certificate

Standard: EN ISO 20344:8.5, EN ISO 17707:2005

Power consumption: 200 W (EL-12) – 400 W (EL-12M)

Noise: ---

Power supply: 230 V.AC – 50/60 Hz