

## TE-11 Leather Grain Cracking Resistance Tester

### Purpose:

Apparatus is intended for determination the resistance of leather to grain cracking and for determination the grain crack index.

**Apparatus is made according to the requirements and apply for the tests according to the following standards:**

**EN ISO 3378**

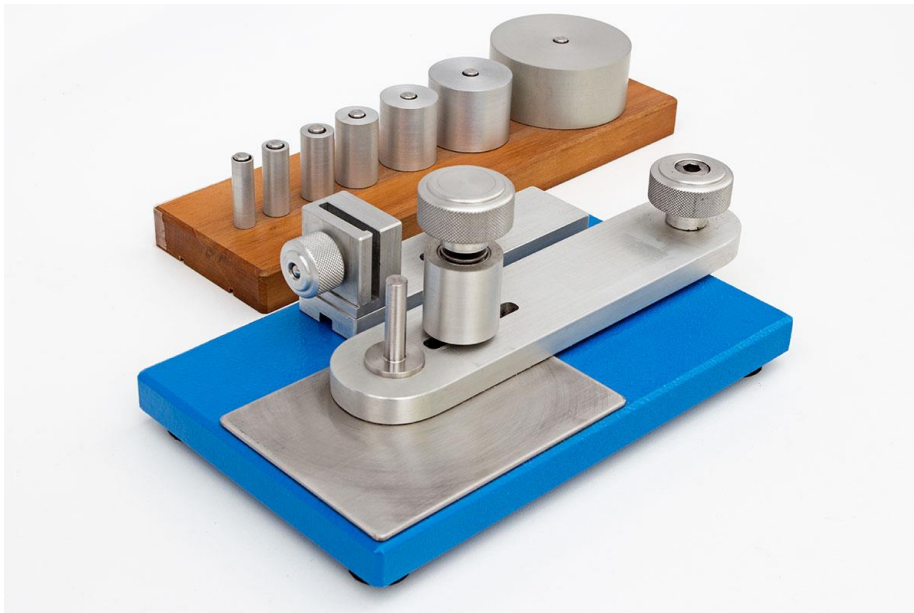
Leather – Physical and mechanical tests – Determination of resistance to grain cracking and grain crack index

### Description of the device:

The device consists of clamp which rigidly holds one end of the test piece, cylindrical roller diameter  $(25,0 \pm 0,5)$  mm fitted with a handle perpendicular to the axis with the position of the roller being adjustable with respect to its position on the handle and set of mandrels according to requirements of the standard.

**Dimension:** Device: (L) 190 x (W) 120 x (H) 90 mm; Set of mandrels: (L) 240 mm x (W) 70 mm x (H) 50 mm;

**Weight:** Device: 3,3 kg; Set of mandrels: 0,6 kg;



### Operating principle:

A sample of leather is bent, grain outwards, around a mandrel of known diameter under the minimum force required to keep the leather and mandrel in contact. Turn the handle through  $180^\circ$  in  $5 \pm 1$  s and during the bending observe the grain and note any cracking. Repeat with other mandrels if required. If the resistance to cracking over a specified mandrel is determined, the result is expressed as a pass or failure.