Schröder
PRÜFTECHNIK

KARL SCHRÖDER KG · P.O. Box 10 10 52 · 69450 Weinheim / Germany
Phone: +49 (0) 6201-9068-0 / Fax: +49 (0) 6201-182490
E-mail: info@schroeder-prueftechnik.de
Website: www.schroeder-prueftechnik.de

ST300 SOFTNESS TESTER

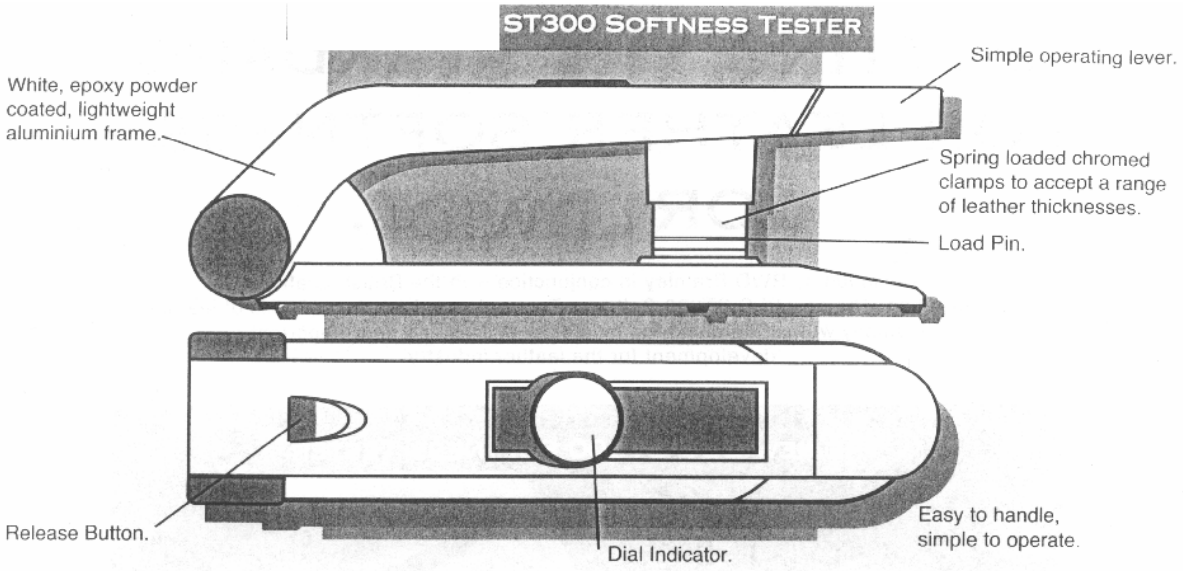
- Improves Internal Quality Control
- Designed for use in the leather industry and in the textile industry for coated fabrics and other soft materials.
- Deflection of the material whilst clamped above an aperture of a known diameter is measured when subjected to a specific load applied by a pin of a smaller diameter.
- Two versions are deliverable:

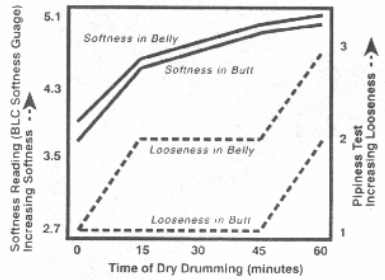
  A Softness Tester Analogue
  The deflection is read on the anlogue gauge.

  B Softness Tester electronic
  the deflection is read on the digital gauge

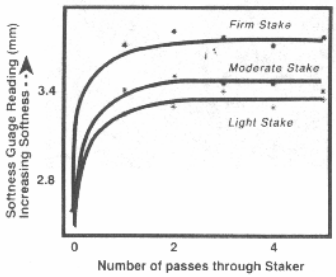
  Option:

  Softness Tester SPC Software Package
  (Windows based) includes RS 232 Computer Link Cable.

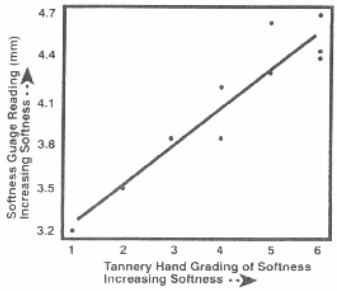




Measurement of the stress softening effect of dry drumming and the accompanying loosening effect. The results demonstrate that for this pack optimum softness with minimum looseness is achieved after 30 minutes.



Measurement of the stress softening effect of Molissa type staking. The results show that optimal softness is achieved with 2 passes through the machine. Any further staking will increase the looseness of the leather without increasing the softness.



Comparison of tannery (manual) and BLC Gauge gradings for softness of bovine upholstery leather.

Operating Instructions

The gauge on the BLC ST300 Softness Tester must be at zero before proceeding. A softness reading is obtained by clamping the leather between two circular plates with sufficient force to prevent slipping,and measuring the deflection of leather under a pre-determined load.

To operate the instrument the top arm has to be lifted by pressing the release button The leather should be placed over the lower clamp plate, making sure that the aperture is totally covered, and the top arm lowered on to the leather by pressing down on the lever. This ensures the load-pin is retracted clear whilst the top and bottom arms are locked, thus clamping the leather. The lever is released, allowing the load-pin to lower on to the leather over the aperture in a controlled descent, by means of a miniature pneumatic cylinder. The load-pin deflects the leather and this deflection is measured and displayed on a gauge.

After a reading has been obtained, the top arm release button is pressed, the arm then lifts under spring pressure, allowing the leather to be removed.

The Softness Tester is ready for further readings to be taken by following the above procedures. If no more readings are required, close the instrument to protect the load-pin and mechanism.

To check at any time that the instrument is reading zero, a small rigid test plate should be placed on the lower clamp plate and the instrument closed using the lever. When the lever is released the load-pin should show zero when it comes in contact with the plate.