

Steinfurth Tension Side Load Tester

Steinfurth Tension Side Load Tester for sport closures

...for standardised safety tests on sport closures (standardised simulation of human jaw)

Tension Side Load Tester for sport closures

The Tension Side Load Tester for Sport Closures (TSLT) is an appliance designed for use on an automatic tensile testing machine. It consists of a pneumatic clamp assembly, a preform clamp and a pneumatic control box.

The design of the clamp assembly complies with ISBT physical performance testing methods #102 and #103.

It simulates a human jaw with teeth. The bite force is controlled by a pressure regulator located in the control box and measured using a standard load cell.

Technical Information

Bite force (max.): 141 N / 31.7 lbf

Specimen diameter between jaws (bottom end): 30 mm / 1.2 in

Specimen diameter in preform clamp (top end): 15...30 mm / 0.6..1.2 in

Supply pressure: 7.5...10 bar / 110..145 psi

Dimensions of applicable load cell (h x w x l): 64 mm x 13 mm x 51 mm or 2.5 in x 1/2 in x 2 in

Suitable screws for load cell: DIN EN ISO 4762 – M6 x 25 or Hex socket head screw UNC 1/4” x 1 in

Load cell capacity: 200 N / 45 lbf