STEINFURTH®

Rotational Sport Closure Tester

For standardised safety tests on sport closures

The Rotation Tester for Sport Closures (RTSC) is an appliance designed for use on an automatic tensile testing machine. It consists of a preform fixture mounted to a wheel, a bite mechanism with integrated adjustment fixture and a safety coupling. The purpose of this device is the simulation of a human attempting to open the spout cap of a sports closure, especially with his or her teeth.

INDUSTRIAL PHYSICS

Protecting Product Integrity

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Operation

The design of the clamp assembly complies with ISBT physical performance testing methods #102 and #103. It simulates a human (infant) jaw with teeth. The bite force is set by shifting a weight along a threaded rod. It can be measured using a standard load cell.

With the specimen preform with closure in place, the closure is rotated around the position of the clamped spout, possibly resulting in completely removing or damaging the spout cap.

Benefits

- **Standardised ISBT test for Sport Closures**
- **Repeatable results at any load machine**
- **Simulation of human jaw**
- **Easy adaptation to any load machine**

Technical Specification

Bite force (max.)	141 N / 31.7 lbf
Specimen diameter	30 mm / 1.2 in
Preform diameter	15...27 mm / 0.6...1.2 in
Load cell capacity	200 N / 45 lbf

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INDUSTRIAL PHYSICS

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