

## Solutions@Mecmesin

### Cap Removal Test of Plastic Phial

#### Specification

The customer approached Mecmesin with a specification to pull-off the cap of a pharmaceutical phial.

The test equipment needed to be simple to use and able to perform repeatable tests.

#### Solution

For ease of fixturing and low cost, Mecmesin suggested to the customer to turn his sample upside-down and push-off the cap. In this case the force to push was the same as the force to pull. The customer agreed and a simple holding fixture was designed.

The polyethylene phial was inserted from below the fixture until it's full depth and secured by a locking screw. The long extension rod of the AFG passed through a clearance hole until it reached the cap and pushed it off.

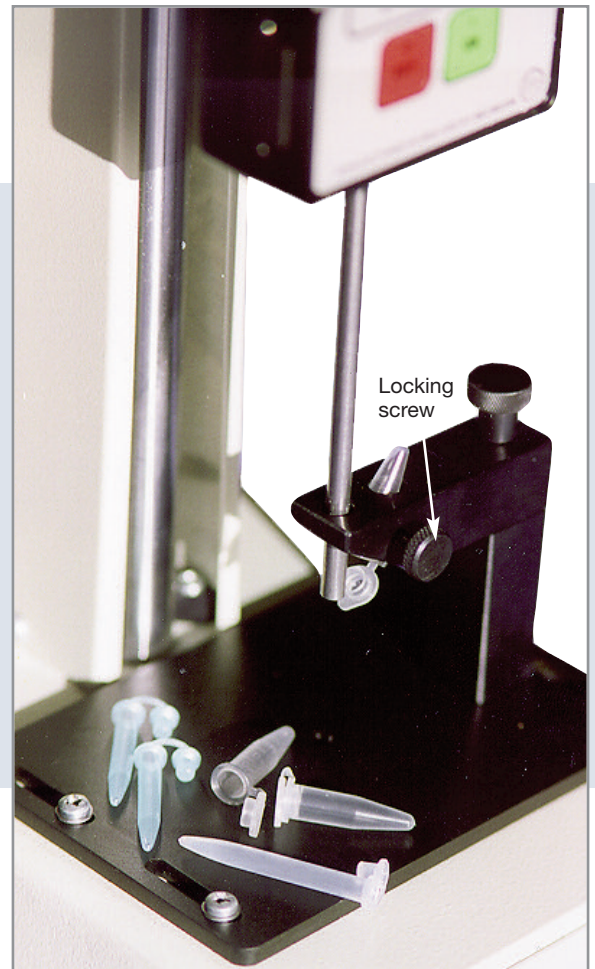
The maximum compression force was displayed on the AFG display and noted by the operator. The alarm band of the AFG was set to warn the operator if the push-off force was inside/outside the tolerance limits.

#### System

- 1000N Motorised Test Stand
- 50N AFG
- Plastic Phial Holding Fixture

#### Supplied to

Point Plastics, USA



#### Mecmesin Limited

Newton House, Spring Copse Business Park, Slinfold,  
West Sussex, United Kingdom, RH13 0SZ.

sales@mecmesin.com t: +44 (0) 1403 799979 f: +44 (0) 1403 799975 www.mecmesin.com

## medical industry

