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Medical Suture Device Calibration System

Specification

A number of devices which 'crimp' a curved needle to a fine medical thread needed to be tested. The crimp force was applied horizontally pulling a lever on the device.

A test system was required to verify that the force applied to the device was within the specified tolerance, and was repeatable over a number of tests.

Solution

The VersaTest motorised stand was adapted for horizontal operation by using a simple feet kit.

The medical suture device was mounted on an 'L' bracket with dowel pin to secure it in position. An 'eye-loop' was connected to the force gauge on a clevis-pin and then connected to the lever device.

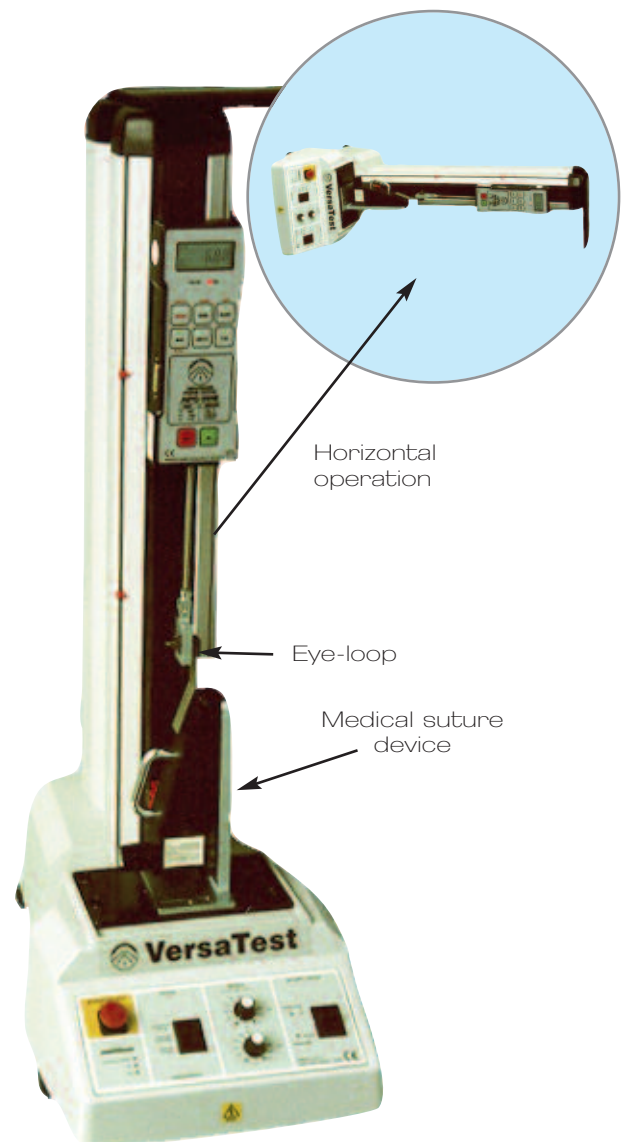
The lever was then pulled at a test speed of 300mm/min with peak tension force being recorded on the AFG. The fast data acquisition speed of 1200 Hz for the AFG, produced results more repeatable than those produced by the previous test system.

System

- 50N AFG
- VersaTest Motorised Test Stand
- Horizontal Feet Kit
- 'L' bracket and flexible 'eye-loop'

Supplied to

Glaxo Wellcome, Poznan, Poland



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medical devices industry

