

WY-022 Suture needle toughness and elasticity tester

WY-022 Suture needle toughness and elasticity tester is suitable for testing the toughness and elasticity of medical suture needle, and is one of the important means to identify medical suture needle.

Professional technology

- The tester adopts 7-inch professional color LCD screen.
- Chinese and English menu display: nominal specification, test deformation, test item, print, test, uplink, downlink, time, calibration.
- The menu on the LCD is controlled by the keyboard, the deformation is automatically controlled, the test data is printed on board, the elastic and toughness testing fixture is easy to replace, and the elastic test is completed automatically.
- The program is set by the intelligent controller, and the test data is printed by the built-in printer.



Test principle

Principle of measuring toughness: bend the needle body through a given angle (i.e. bend the straight needle 90°; bend the half-curved needle 3/8 circle; bend the 3/8 circle needle straight) and calculate the downstream travel. If the needle withstands the given amount of bending without cracking, it is considered as the eligible.

Principle of measuring elasticity: extend the needle by applying a given amount of force, and remove the applied force until the chord length acquires the set value. After release of the load, the deformation amount of the chord length is measured immediately. The amount of increase and deformation is obtained by distance measuring unit independent of application of external force.

Test standard

The instrument is designed and manufactured according to YY0166-2002 and YY0043-2016 standards.

Test application

Basic application	It is suitable for testing the toughness and elasticity of various medical suture needles.
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Technical index

Item	Parameter
Nominal range	0.2~1.3mm; 12 mm≤L < 80 mm
Indication error	≤±0.1mm
Deformation resolution	0.01mm
Controlling deformation rate	0.01 mm /s~1 mm /s
Print type	10 test conclusions can be printed each time
Size	400 mm (L) × 270 mm (W) × 360 mm(H)
Net weight	20kg

Product configuration

Standard configuration	Host, fixture, weight, printing paper, instruction manual
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