

Materials Testing Accessories Newsletter

In This Issue: New Accessories for Biomedical Applications

Instron® adds to its already extensive range of Biomedical accessories with two new ways to hold end products or components to the base of an Instron testing machine and two new application focused syringe testing fixtures. For more information on each fixture follow the links below, or for more information on biomedical fixtures and applications, visit Instron [Testing Solutions](#).

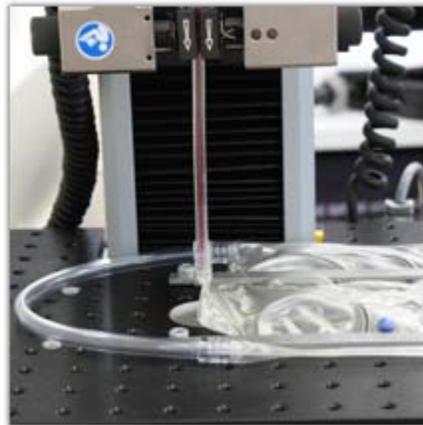
Component Test Plate



The Instron [Component Test Plate](#) is designed to accommodate the trend of testing end products or components. Within the medical device industry, many test requirements focus on the actual quality and test performance of the end product in addition to the standard test requirements of the materials from which it is constructed. The Component Test Plate is used to determine the force limits, in particular functional elements, of products ranging from catheter delivery systems to buttons on diagnostic test instruments. Once oriented, the test component can be easily fixed to the base through the array of tapped holes. A force applicator (probe, hook, or clamp) can then be attached to the load cell. The combination of a fixed component and test force applicator generates valuable results for either quality or research and development groups. Additionally, the Component Test Plate simplifies the process of adapting custom-made grips and fixtures to the testing systems.



Tapped test plate mounted on a single column testing system



Close-up of tension test on medical device secured to the test plate

XY Test Stage

The Instron [XY Test Stage](#) is designed to accommodate the trend of testing end products or components. Within the medical device industry, many components, sub-assemblies, or end products have multiple elements, like leads, that need to be tested independently of one another. Often the elements tested are in close proximity to one another. Using the XY-Stage, the specimen is fixated on the system and testing is performed on the individual elements. The XY-Stage easily and quickly relocates the specimen so that the next element can be tested without having to reinstall the specimen.

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[Online Request](#)

Related Links

- Fourth Edition of the [Accessories Catalog for Materials Testing](#) is now available!



- Missed previous issues of the Accessories Newsletter? Catch up at the Instron [Library](#). Follow the link and select "Newsletter" as the Document Type.

Future Events

For a list of upcoming shows that Instron will be attending, please visit the [Events](#) page of our website.

Additionally, when initial alignment is critical for successful testing the XY-Stage provides the ability for repeatable and quick results, including applications like insertion and withdrawal testing, or precision bend testing. The general flexibility of the XY-Stage allows it to adapt almost any specimen to your universal testing systems.



Syringe fixture



The Instron [Syringe Test Fixture](#) is designed to investigate the forces necessary to collect force versus time data in an effort to evaluate the performance of syringes and syringe/needle combinations. It determines breakaway forces at the beginning of injections, as well as sustaining forces throughout the injection process. The key feature of the fixture are plastic inserts that offers a wide range of flexibility to accommodate a variety of syringe sizes and volumes to meet your testing needs. The fixture can be positioned downwards to perform a needle cap pull-off test (lower grip to perform needle pull-off is not included).

Syringe Test Fixture to ISO-7886-1

The Instron [Syringe Test Fixture](#) is designed to meet the test requirements of ISO 7886-1 Annex G for sterile, single-use hypodermic syringes. This includes any plastic syringes used for the injection or aspiration of fluids, but excludes insulin syringes, glass syringes, syringes with permanent needles, syringes with powerdriven pumps, pre-filled syringes, or injection kit syringes.

The fixture offers flexibility to accommodate a variety of syringe sizes and volumes. According to ISO 7886-1, the syringes must be tested at 100 mm/min and operational forces are measured as a function of three different volumes:

- Less than 2 ml
- Between 2 ml and 50 ml
- Greater than 50 ml



For more information on Accessories, visit us [on the web](#), submit an [online request](#), or call us at +800 564 8378 (US only) or +44 1494 456815 (Europe only)

Are you testing something a little different? Do you think more people should know about it? Would you like to submit an article for possible publication in the Instron accessories newsletter? If so, please [submit your story](#).

[What do you think? Tell us!](#)



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