



Lid torque test: place your sample in the customized sample holder

Lid torque test

- Retrofit module
- Flexible testing
- Complies with **MIL-STD-883 METHOD 2024.2 Lid torque for glass-frit-sealed packages**
- Customized sample holders for your samples
- Unique solution, nowhere else available

Lid torque testing for glass-frit-sealed packages

The purpose of this test is to determine the shear strength of the seal of glass-frit-sealed microelectronic packages. This is a destructive test.



Failed sample after lid torque test

The device is held by the device body and torque applied to the lid of the device or vice versa. The lid torque fixtures is designed to assure that it only applies torque to the side area of the package lid, base, or spacer.

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Bond testers

- Condor *Sigma*
- Condor *Sigma Lite*
- Condor *Sigma W12*
- Condor *150HF*

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Detail of the lid torque workholder on a Condor Sigma

Contact to the sealing glass is therefore avoided. For ease of use and to avoid interference, the package leads are removed prior to test. The torque is applied gradually and smoothly until package separation occurs, or the reaching of the 12.8 newton meter torque limit. The torque required for package separation or the reaching of the 12.8 newton meter torque limit is recorded. The torque is applied such that the axis of rotation is perpendicular to the sealing plane and the axis of rotation is located at the geometric center of the sealing area.

A device where package separation or breakage occurs at a torque value less than specified is a failure.

Video showing sample being tested

[Video not included in PDF: [click here to view online](#)]

Contact us

Did we catch your attention? Please [contact us](#) for more information, to request a demonstration or a quotation.

Relevant products

- [Condor Sigma](#)
- [Condor Sigma Lite](#)
- [Condor Sigma W12](#)
- [Condor 150HF](#)
- [Revolving Measurement Unit](#)
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- Vision
- Software
- Calibration
- Work holders

Increase your bondtesting throughput

The **Condor Sigma** is not only the most accurate bondtester in the world, but also the fastest. [Click here to read the study that proves the Condor Sigma is up to 39% faster than the competition.](#)

Special applications

Please [contact us](#) if you have any questions or special bond testing requirements.

Condor Sigma brochure

[Click here](#) to download the **Condor Sigma brochure**, the **Condor Sigma W12 brochure** or the **Condor Sigma Lite brochure** or the **Condor Sigma Vision brochure (PDF)**.

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