



USB Tweezers wire pull

## Tweezer pull test

- Measured force equals the applied force
- Very accurate test results
- **USB tweezers** with programmable closing force and closing speed
- The **RMU** can hold up to 6 sensors in any combination, **including up to 4 USB Tweezers**
- Thin wire pull test
- Ribbon peel test
- [Click here for cold bump pull](#)
- And many other applications

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## How to: Tweezer Pull

We have added an **extensive how-to on Tweezer Pull** to our website. By doing this we aim to spread knowledge about bond testing in the industry. [Click here to go to www.tweezerpull.how](http://www.tweezerpull.how).

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

## Pin pull test

Tweezer pull testing is comparable to standard pull testing. The difference between them is that special tweezers are used to clamp the part and hold it before pulling the part. Tweezer pull testing is used to perform pull tests on wires, ribbons, pins, balls or components. It is important that the part that is tested is not dislocated when the tweezers are closed.

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### **Other offices**

- Germany  
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- Thailand  
- United Kingdom  
- USA: California  
- USA: Massachusetts  
- [Distributors](#)

### **Bond testers**

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

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***Technology leader in bond testing worldwide***



Pin pull on FR4

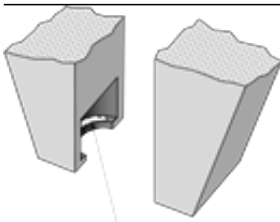
For a standard wire pull test the hook applies the force by pulling the wire. The applied force on the wire is not equal to the force applied to the ball or wedge, because the force is not applied exactly above this ball or wedge. With a tweezer pull test it is possible to apply the force directly above the ball or wedge. The measured force will equal the applied force. Before performing this test, it may be necessary to cut the wires first. This can be done with special tips that can cut the wire. It is also possible to shear the bond on one side, straighten the wire with the tweezer and then perform the test.

XYZTEC offers the **USB tweezer** as a general solution for most tweezer pull tests. The tips on this tweezer can be changed and the required force to clamp a part can be set in the software. We also offer special tips to cut a wire, and we have specialized tweezers for higher forces or very small parts.

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

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Contamination inside CBP tweezer jaws

## Contactless Cavity Cleaner

During use solder builds up in the cavity in cold bump pull (CBP) jaws. This reduces their grip efficiency and affects the quality of your measurements. XYZTEC offers **the best solution** for this problem: the patented **Contactless Cavity Cleaner**.

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## Tweezers flyer

[Click here](#) to download the **Tweezer Solutions flyer** (PDF) by XYZTEC.

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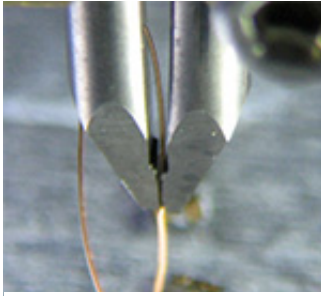
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Copper wire pull test on RFID

## Advances in tweezer pull testing

[Click here](#) to read the article that was first published in *Chip Scale Review* May June 2014.

## Micro drives with the 'strength of a giant'

[Click here](#) to download an article by Faulhaber, called "Mechanical stress test for component solder joints and bonding wires - Micro drives with the 'strength of a giant'" (PDF) on the *USB Tweezers*.

## Contact us

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

## Advances in tweezer pull testing

[Click here](#) to read the article that was first published in *Chip Scale Review* May June 2014.

## Relevant products

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

## Increase your bondtesting throughput

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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.](#)

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## Special applications

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

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## 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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## Representatives

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[Click here to access the XYZTEC consumables webshop](#)

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