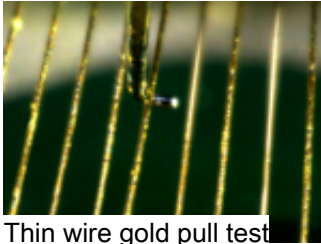




Wire pull test

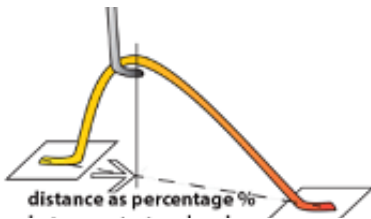


Thin wire gold pull test

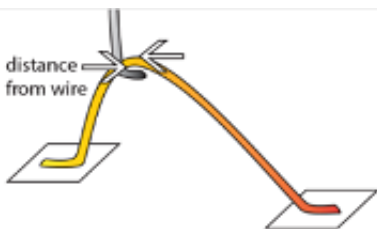
- Sensor accuracy $\pm 0.075\%$
- Rotational accuracy $\pm 0.05^\circ$
- Complies with industry standards
- Destructive and non-destructive testing
- Pull angle modeling is also available with DVS2811 software
- External standard MIL-STD-883 (Methods 2011.9 for destructive testing and 2023.7 for non-destructive)
- Possible to combine with loop height test
- Automatic wire detect functionality

Thin wire

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



Program where to pull the wire between the first and second bonds



Program the distance from the wire to position the hook during automation

Wire Pull Testing applies an upward force under the wire, effectively pulling it away from the substrate. There are many types of pull tests, therefore XYZTEC offers a solution for each type. The pull test can be performed on wires or ribbons. The material of the wires or ribbons is

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Bond testers

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

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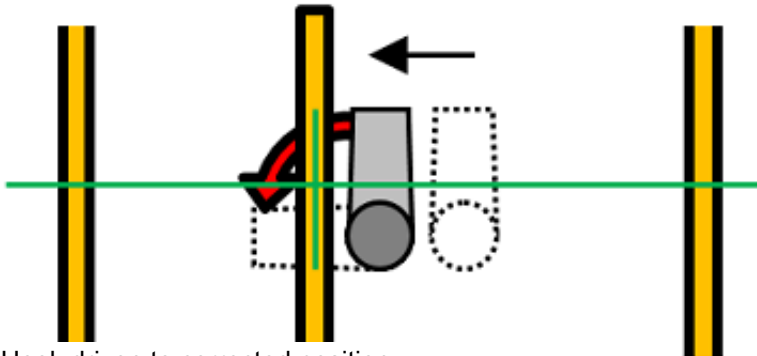


mostly gold, aluminium or copper.

Majority of tests are performed with a 90° hook that is positioned under the wire. The Z-stage then moves up and the wire is pulled. The alignment of the hook under the wire is very important to obtain reproducible measurements. This can be ensured using our semi-automatic or fully automatic testing compliant with DVS2811.

Thick wire

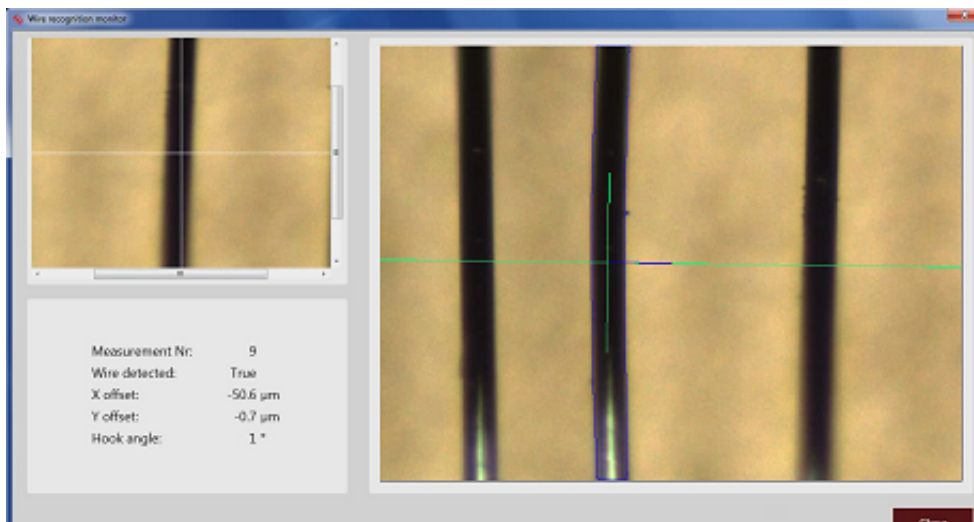
[Video not included in PDF: [click here to view online](#)]



Hook driven to corrected position

Automatic wire detect

As more and more companies are making the transition to **automatic** wire pull testing, the engineers are also finding out its limitations. On many products, the placement of wires is not consistent and simple automation programs will miss the wire or pull two wires at once.



Wire detect on Condor Sigma; wire detected at 50µm offset from the expected position

XYZTEC's **Condor Sigma** is the only bond tester in the world to overcome this problem with its

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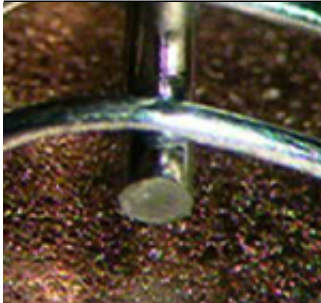
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automatic wire detect functionality.

The illustration shows how the hook is driven to a corrected position, after the wire was detected at the position of the green crosshairs. Thereafter, when the bond tester performs the pull test, it does not miss the wire but pull it in exactly the same position as every other wire. This enables a higher degree of consistency than possible when doing manual tests.



Thick wire aluminium pull test

See also: [ribbon pull](#) and [vector pull](#).

Contact us

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

Relevant products

- [Condor Sigma](#)
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- [Tweezers](#)
- [Vision](#)
- [Software](#)
- [Calibration](#)
- [Condor Classic](#)
- [Condor 150HF](#)
- [Work holders](#)

Special applications

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

Condor Sigma brochure

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