

Condor 250-3 designed for Solar peel test

Solutions » Solar testing

Sustainable energy is an important driver for photovoltaic cells (silicon solar cells). This technology and efforts regarding the efficiency factor, quality, and costs are still under development. Currently, typical silicon solar cells are connected to so called strings by two or three solder coated copper ribbons.

XYZTEC provides an optimized solution for solar cell testing with the **Condor Sigma**, combined with a specially developed work holder and tweezers.



Sigma

320x168x168mm

Solar panels are sizable. The Condor Sigma has the biggest test envelope in the industry.

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Other offices

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

Bond testers

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

This is page 1/3
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Technology leader in bond testing worldwide



New test method for mechanical strength evaluation of solar cell solder joints

Read the [article](#) by R. Klengel, R. Härtel (Fraunhofer IWM), S. Schindler (Fraunhofer CSP), D. Schade, B. Sykes.

Technical Informer

Click [here](#) to download the complete "Solar Cell Ribbon Peel Testing Technical Informer" (PDF) by XYZTEC.

Bond testing seminars

Aiming to improve understanding of bond testing in the industry, XYZTEC organizes [seminars](#) to present and disseminate knowledge in a straightforward format. [Click here to find out more about bond testing seminars.](#)

SMart Chain

XYZTEC participates in the project SMart Chain. [Click here for more information.](#)

provincie limburg



Provincie Noord-Brabant



Agentschap NL
Ministerie van Economische Zaken



Samenwerkingsverband
Regio Eindhoven

Contact us

Please [contact us](#) for more information, to request a demonstration or a quotation.

Fracture strength of thin wafers and die

There are many types of wafer and die and many different reasons to test them. Your concerns might be stress crack propagation, delamination or the effects of the crystalline structure on strength.

[Click here to read our article](#) that elaborates on the subtle differences between several types of bend tests: [3 point bend test](#), [4 point bend test](#), [ball and ring test](#), [ring and ring test](#).

Relevant test types

A wide variety of [test types](#) are relevant for solar, among which are:

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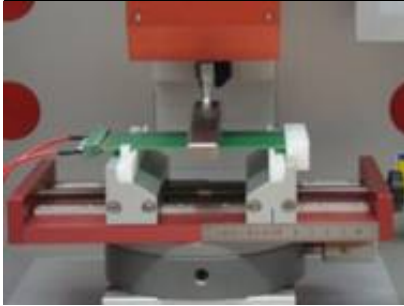
This is page 2/3
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Tweezers

- Ribbon peel
- Tweezer pull



Bending test

- 3 point
- 4 point
- ball and ring
- ring and ring

Bending test

Special applications

Please [contact us](#) if you have any special tweezer requirements.

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This is page 3/3
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