



Newsletter: Axis accuracy of $\pm 1\mu\text{m}$: essential for automatic bond testing

31 July 2015

Although a well-established technology the majority of bond tests are deficient. The reason stems from the evolution of a manual machine into an automatic one. In a manual tester the operator aligns the test tool to the bond. This requires fine control of small movements but not ultimate accuracy. Many of these systems rely on rotary encoders fixed to their drive motors. This does an adequate job of positioning the motor but backlash and hysteresis in gearboxes, lead screws and linear guides induce very significant errors. Errors of $\pm 50\mu\text{m}$ are common. The **XYZTEC Condor Sigma** platforms all use **linear encoders** and have a positioning accuracy of $\pm 1\mu\text{m}$.



The **Sigma** direct drive motor and linear encoder ensure $\pm 1\mu\text{m}$ accuracy.

It works on your sample too!

If you are interested in a live demonstration of the **Condor Sigma** on your sample or perhaps for more bond testing inspiration, **contact us today!**

Watch our videos

© 1999-2019 XYZTEC BV

XYZTEC Netherlands

J.F. Kennedylaan 14-B
5981 XC Panningen
Netherlands ([map / route](#))
Tel: +31-77-3060920
Fax: +31-77-3060919
sales@xyztec.com
support@xyztec.com

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
Click [here](#) for the **web version**.

Technology leader in bond testing worldwide



Click [here](#) to watch our automation video or [here](#) to watch the video of the contactless cavity cleaner.

Go to [this page](#) to subscribe to our newsletter.

Other newsletters

Jul 2019
Apr 2019
Aug 2018
Jul 2017

May 2017
Mar 2017
Feb 2017

Jan 2017

Dec 2016
Nov 2016

Oct 2016
Sep 2016
Aug 2016
Jul 2016
Jun 2016
May 2016
Apr 2016
Mar 2016
Feb 2016

Jan 2016
Dec 2015
Nov 2015
Oct 2015
Sep 2015
Aug 2015

Meet the world's biggest bond testers
Free SMTconnect ticket? Register now
Is Fully Automatic Bond Testing Possible?
Advances in Thin, 3D and MEMS Die Bond Strength Testing
Shear testing copper pillar
Fracture strength of thin wafers and die
Centralized database for enhanced security and SPC options
Full Automation with Improved Pattern Recognition, Fiducial Marks Analysis, Wire Detect and Failure Mode Analysis
Coating and film testing
Latest software release enables automatic grading
Vision enhanced materials testing
XYZTEC makes lid pull easy
Condor Sigma W12 with large heater stage
How to: Wire Pull
Get 10% off your next tools order
Pull testing bumped wafers
SMD gull wing leads testing
Automation: matrix bond testing made easy
Fully integrated solution for automated wafer testing
In bond testing, size does matter
XYZTEC goes from strength to strength
Automatic wire detect
Highly reproducible stud pull tests are possible
What is the quality of your coatings?
Loading samples has never been so easy

Subscribe to our [RSS-feed](#) to be notified of the latest news automatically. You can also find us on [Facebook](#), [LinkedIn](#), [Twitter](#), [Weibo 微博](#), [Google+](#), [YouKu 优酷](#) and [YouTube](#).

Bond testing seminars

© 1999-2019 XYZTEC BV

XYZTEC Netherlands

J.F. Kennedylaan 14-B
5981 XC Panningen
Netherlands ([map / route](#))
Tel: +31-77-3060920
Fax: +31-77-3060919
sales@xyztec.com
support@xyztec.com

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 2/3
Click [here](#) for the [web version](#).

Technology leader in bond testing worldwide



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.](#)

XYZTEC Netherlands

J.F. Kennedylaan 14-B
5981 XC Panningen
Netherlands ([map](#) / [route](#))
Tel: +31-77-3060920
Fax: +31-77-3060919
sales@xyztec.com
support@xyztec.com

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 3/3
[Click here](#) for the [web version](#).