



Newsletter: What is the quality of your coatings?

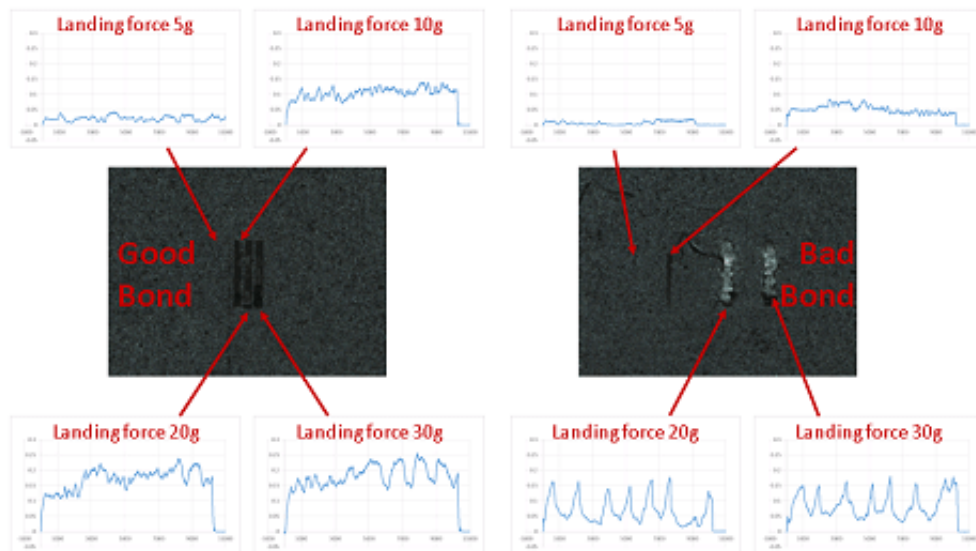
30 September 2015

UPDATE: [newsletter december 2016 "coating and film testing"](#)

Maintaining high quality coatings and films is an important requirement within the semiconductor industry. The XYZTEC "Scratch Test" (PDF) provides a new means of measuring the quality of the adhesive bond of single or multiple coatings to the substrate and/or each other. As shown in the video a special shear tool is used to land on to a coating or multiple coatings and then scratch along the surface.

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

The depth of the cut and layer being tested can be controlled by a programmable landing force and the ability to drive down into the coating or coatings to a programmable depth. Weak bonds can be seen in the failure mode of delamination and the force displacement graph of the shear tool. In the example shown the difference between a good and bad bond can be clearly seen.



[Click here to view the PDF on Scratch Testing.](#)

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

Other newsletters

Apr 2019
Aug 2018
Jul 2017

May 2017
Mar 2017

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

© 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 1/2
[Click here](#) for the [web version](#).

Technology leader in bond testing worldwide



Feb 2017	Centralized database for enhanced security and SPC options
Jan 2017	Full Automation with Improved Pattern Recognition, Fiducial Marks Analysis, Wire Detect and Failure Mode Analysis
Dec 2016	Coating and film testing
Nov 2016	Latest software release enables automatic grading
Oct 2016	Vision enhanced materials testing
Sep 2016	XYZTEC makes lid pull easy
Aug 2016	Condor Sigma W12 with large heater stage
Jul 2016	How to: Wire Pull
Jun 2016	Get 10% off your next tools order
May 2016	Pull testing bumped wafers
Apr 2016	SMD gull wing leads testing
Mar 2016	Automation: matrix bond testing made easy
Feb 2016	Fully integrated solution for automated wafer testing
Jan 2016	In bond testing, size does matter
Dec 2015	XYZTEC goes from strength to strength
Nov 2015	Automatic wire detect
Oct 2015	Highly reproducible stud pull tests are possible
Sep 2015	What is the quality of your coatings?
Aug 2015	Loading samples has never been so easy
Jul 2015	Axis accuracy of $\pm 1\mu\text{m}$: essential for automatic bond testing

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

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.](#)

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