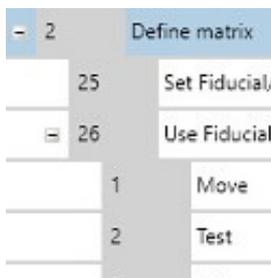




PCB board

PCB assembly

With the directive for 'hazardous substances' ([RoHS directive 2002/95/EC](#) and [WEEE directive 2002/96/EC](#)) the European Union has made an important step for the implementation of environmental requirements into the manufacturing of electronic assemblies.



Matrix automation programming snippet

Prior to the introduction of this directive on July the 1st 2006, companies performed many studies on the process capability and technical reliability of Pb-free solders to ensure equivalent products. The mechanical stability of the bonded assemblies played an integral role during the research. To test the stability, a shear test can be used to determine the strength of different components. In other cases, pull or mechanical shock testing may be more appropriate. Miniaturization of structures and components demand more and more from production equipment and operator.

XYZTEC provide special testing procedures for PCB boards, our standard [Condor Sigma](#) and [Condor 150-3](#) are qualified for high precision shear and creep tests which are ideal for production QA and product development.

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.](#)

Contact us

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

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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*

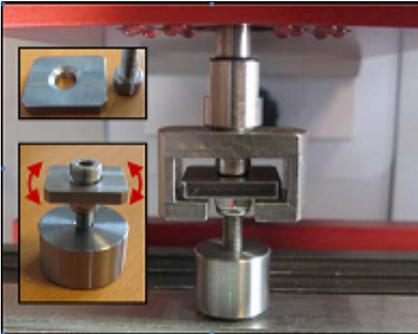
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Technology leader in bond testing worldwide



Relevant test types

A wide variety of **test types** are relevant for PCB assembly, among which are:



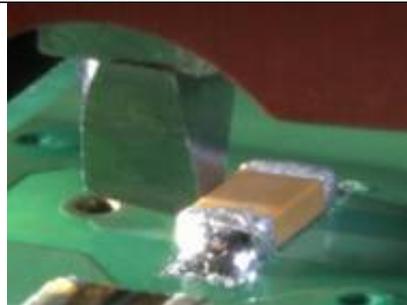
Stud pull with self aligning plate

Pull testing

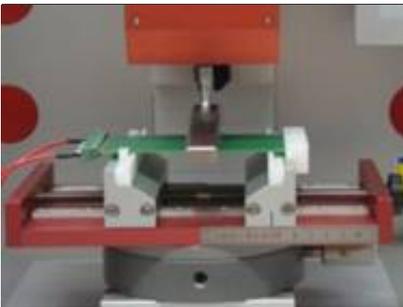
- Stud pull
- Tweezer pull
- Wire pull
- Bending test

Shear testing

- Ball shear
- Cavity shear
- Die shear



SMT component impact test



Bending test

Bending test

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

Special applications

Please **contact us** if you have any special tweezer requirements.

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