

CBP Tweezer prior to closing

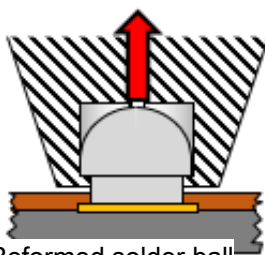
Cold Bump Pull

- Solder ball Pull 테스트
- 센서 정확도 $\pm 0.075\%$
- IMC bond failure 와 Pad Crater 와 같은 파괴 모드 분석
- 파괴가 일어날 때 Pull 응력값
- 볼 형상에 따른 80 μm 직경의 ball 측정(볼 높이/직경 비율에 따른)
- 볼을 잡는 힘
- 볼을 잡는 속도
- 볼을 잡고 푸는 위치
- The **RMU** can hold up to 6 sensors in any combination, including up to 4 USB Tweezers
- JEDEC JESD22-B115
- JEITA EIAJ ET-7407
- IPC-9708
- **CBP Jaw Cleaner**

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

How to: Cold Bump Pull

We have added an **extensive how-to on Cold Bump Pull (CBP)** to our website. By doing this we aim to spread knowledge about bond testing in the industry. [Click here to go there.](#)



Reformed solder ball

© 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

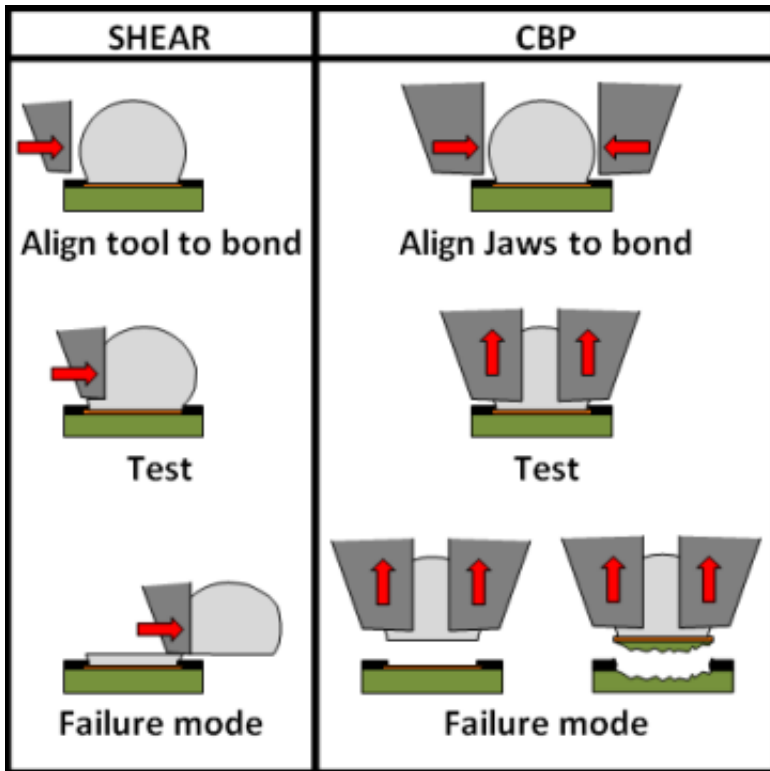
- Germany
 - Taiwan
 - Thailand
 - United Kingdom
 - USA: California
 - USA: Massachusetts
 - [Distributors](#)

Bond testers

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

This is page 1/4
[Click here](#) for the [web version](#).

Technology leader in bond testing worldwide



Shear 테스트와 CBP 테스트의 차이

CBP의 장점

XYZTEC USB tweezers 로 Cold Bump Pull (CBP) 테스트를 하면 정밀한 제어가 가능합니다. 많은 solder balls bond 는 solder resist layer 에서 형성된 cavity가 바닥에 형성되어 있습니다. Shear 테스트에서 이 Cavity가 solder failure modes 에 중요한 영향을 끼칩니다. Pull 테스터에서는 이 부분에 영향이 적으며, 상대적으로 다른 failure modes 가 일어납니다. 볼을 잡기 위해 특별히 제작된 Jaw 가 사용됩니다. 접합된 부분에 간섭을 받지 않고, 이 Jaw 가 볼의 윗부분이 Pull 응력측정에 적용 할 수 있도록 합니다.

CBP Jaw Cleaner

During use solder builds up in the cavity in cold bump pull (CBP) jaws. This reduces their grip efficiency and affects the quality of your measurements. Cleaning the cavities is very difficult and small ball cavities can be damaged easily. [Click here to find out more information about XYZTEC's patented solution: the CBP Jaw Cleaner.](#)

© 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

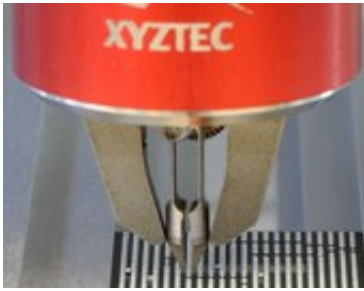
- Germany
- Taiwan
- Thailand
- United Kingdom
- USA: California
- USA: Massachusetts
- Distributors

Bond testers

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

This is page 2/4
[Click here for the web version.](#)

Technology leader in bond testing worldwide



USB Tweezers performing cold bump pull (CBP)

Tweezers flyer

[Click here](#) to download the **Tweezer Solutions flyer** (PDF) by XYZTEC.

Contact us

더 필요한 것, 견적서 또는 references 목록 등등이 있다면 [여기를 클릭하세요.](#)

Relevant products

- Condor Sigma
- Condor Sigma Lite
- Condor Sigma W12
- Condor 150HF
- Revolving Measurement Unit
- Sensors
- Tweezers
- Vision
- Software
- Calibration
- Work holders

Increase your bondtesting throughput

The **Condor Sigma** is not only the most accurate bondtester in the world, but also the fastest. [Click here](#) to read the study that proves the **Condor Sigma** is up to 39% faster than the competition.

Special applications

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

Condor Sigma brochure

© 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 3/4
[Click here](#) for the [web version](#).

Technology leader in bond testing worldwide



Click [here](#) to download the [Condor Sigma brochure](#), the [Condor Sigma W12 brochure](#) or the [Condor Sigma Lite brochure](#) or the [Condor Sigma Vision brochure \(PDF\)](#).

Representatives

To find your local representative, please select a region:

- [Americas](#)
- [Europe, Middle East, Africa](#)
- [Greater China](#)
- [Japan](#)
- [Asia / Pacific](#)



Click [here](#) to access the XYZTEC consumables webshop

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 4/4
Click [here](#) for the [web version](#).