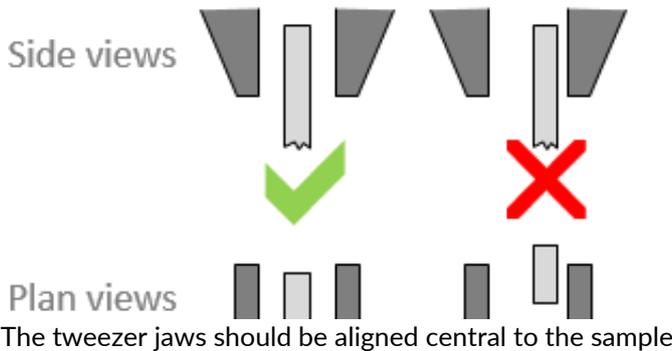




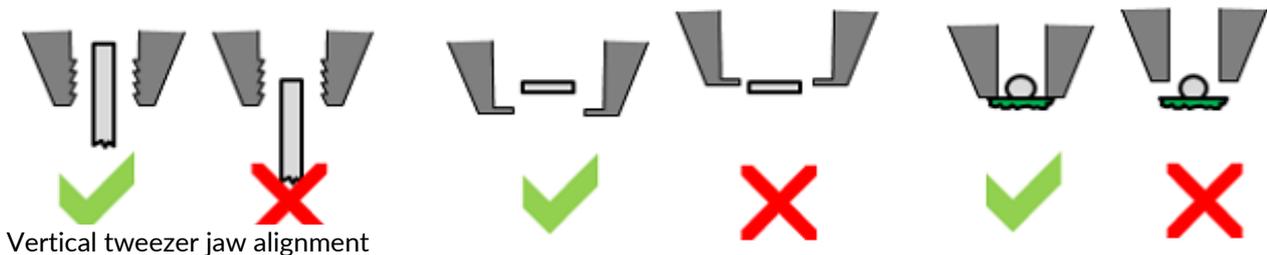
## How to test bonds » Tweezer Pull » Alignment and Failure Modes



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### 4. Alignment

For best results, generally the tweezer jaws should be aligned central to the sample. Jaw features like serrations, hooks or cavities must be correctly engaged in the vertical axis as well. A sufficiently advanced bond tester can in many cases assist the operator by aligning automatically. This works by vision technology or the detection of surfaces.



### 5. Gold Wire Tweezer Pull Failure Modes

Here we list the most common failure modes for gold wire tweezer pull. We also refer to our [grading library](#), where you can [download result codes](#).

#### XYZTEC Netherlands

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

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HAZ strength known  
Acceptability depends on strength



Wire break  
Wire strength known  
Acceptability depends on strength



IMC/Bond strength known  
Acceptability depends on strength



Pad crater  
Acceptability depends on strength  
Possibly bonder process problem  
Gold wire tweezer pull failure modes



Bond break  
Bond strength known  
Acceptability depends on strength  
Possibly weak bond



Jaws slip  
Bad test

## Continue to read:

Previous page: Tweezer Design

Next page: Ribbon Pull and Peel Testing

### XYZTEC Netherlands

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

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