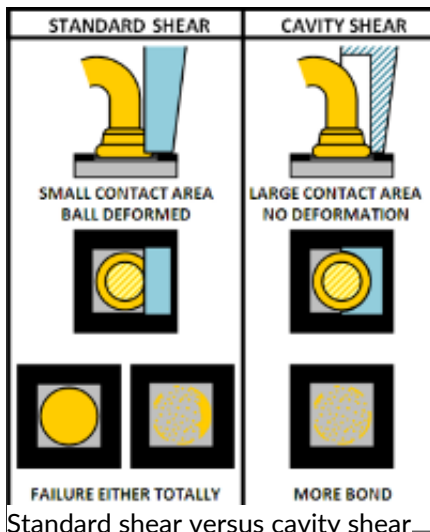




## Cavity shear test

- Increases test values
- Minimizes ball deformation
- Minimizes test influence on bond strength
- Sensor accuracy  $\pm 0.075\%$
- Enables testing with increased shear height

## Ideal solution for testing Ultra Fine Pitch Gold Balls



Cavity Shear tools have a semi-cylindrical recess (cavity) that distributes the shear load on a ball over a much larger surface area. This reduces ball deformation and increases the test result values. Although the test result increases, it also promotes more bond (IMC) failures. This occurs because the ball is not progressively deformed and sheared by the high stress concentrations produced by standard shear. More bond failures provide more data on the strength of the bond rather than the shear strength of gold.

The passivation layer in Ultra Fine Pitch applications often limits the shear height causing low test results as the tool simply cuts the top off the bond. Cavity Shear minimizes this affect by distributing the test load over the ball. The advantages of Cavity Shear also apply to Solder Ball applications.

## Contact us

Did we catch your attention? 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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## Relevant products

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

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## 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.](#)

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## Special applications

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

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## Condor Sigma brochure

[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)**.

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