



## Case studies and references » Large heater stage on Condor Sigma W12



XYZTEC has historically been very successful in working together with customers to develop customized solutions for new quality assurance challenges in a highly competitive world. This case study describes the solution XYZTEC found in order to enable a customer to test glued or solder interconnections on a coating at temperatures up to 175°C.

The temperature requirement in itself was nothing new for XYZTEC, which offers **heater work holders that can go up to 500°C**, but this customer wanted to test multiple kinds of carriers with sizes of over 50 centimeters squared. This had never been done. Automated testing was also a requirement.

### Quick and uniform warm up

XYZTEC adapted the Condor Sigma W12 and equipped it with a rotating 13500W 518x513mm heater stage that can uniformly warm up your sample to temperatures up to 175°C. With 27 heater elements in 7 different control groups it quickly warms up its aluminum table and customer sample with an accuracy of less than ±5°C. The table was designed to remain extremely flat and to deliver a perfect vacuum even at the highest temperatures.



Triple heat shieldings around the **Revolving Measurement Unit (RMU)** protect the inner workings

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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**



of the bond tester against prolonged high temperatures. A Windows™ based temperature controller with various heating profiles gives the user complete flexibility. Multiple heating profiles can be configured and stored.

## Cooling down rack



With the high accuracy bond tester comes a sample carrier and cooling down rack to make the handling of the large (hot) panels easy. The carrier can be positioned accurately before testing and then safely cool down after the automatic tests.

## Full automation

To be able to test all of the sample area the large rotating heater stage can move to four fixed rotation positions and automatic testing is easily programmed by the engineer. All the flexibility that customers have come to expect from XYZTEC, including vision corrections, are also available.

## Calibration station

The **Condor Sigma W12** can be **calibrated** without having to remove the large heater stage making daily checks a simple task.

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Condor Sigma W12 with large heater stage, showing a 12 inch round carrier to be tested

## Learn more about the Condor Sigma

If you are interested in a live demonstration of the **Condor Sigma** on your sample or perhaps for more bond testing inspiration, [contact us today!](#)

This case study was first presented in our newsletter. [Subscribe now](#) if you wish to [stay up to date](#) about XYZTEC's innovations.

## Case studies

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- [Large heater stage on Condor Sigma W12](#)

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## Contact form

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