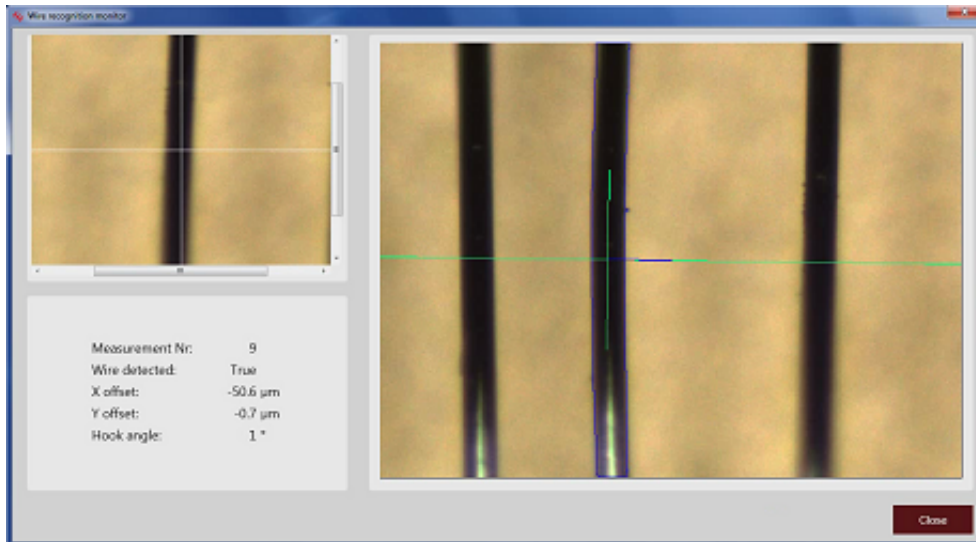




Newsletter: Automatic wire detect

29 November 2015

As more and more companies are making the transition to **automatic wire pull testing**, the engineers are also finding out its limitations. On many products, the placement of wires is not consistent and simple automation programs will miss the wire or pull two wires at once. XYZTEC's **Condor Sigma** is the only bond tester in the world to overcome this problem with its automatic wire detect functionality.



The **Condor Sigma high resolution cameras** combined with advanced wire detect algorithms allow the bondtester to correct for production tolerances for every single wire and allow for automation, even with fine pitch wires. Additionally, the **Sigma** offers automatic and consistent positioning along the wire, which can be setup as a percentage between the first and second bond. Alternatively the pull position may be calculated to produce any required angle at either the first or second bond and the forces at both bonds calculated. Missing wires or recognition problems can be handled during the automation cycle or after, via extensive reports.

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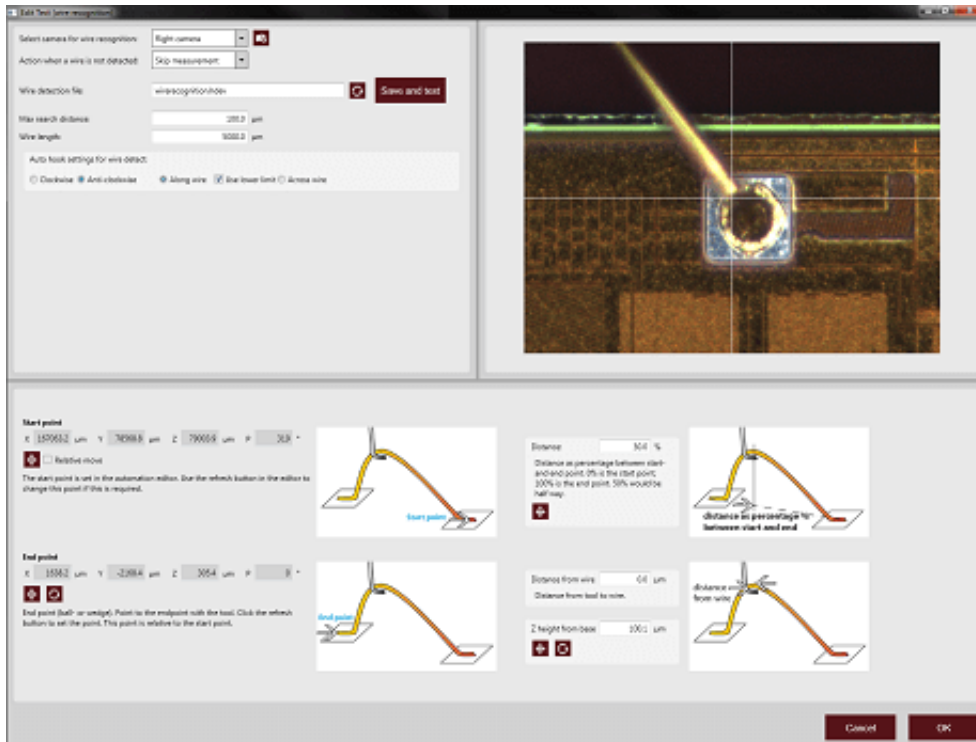
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Bond testers

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

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The system is surprisingly easy to use, with a flexible AOI editor. Positions can be taught by means of the microscope (3D) and/or any of the **three cameras** that can be fitted on the **Condor Sigma**. Wire detect is one of many image processing capabilities of the **Sigma**. The automatic wire detect function was introduced at **Productronica** in Germany and is most relevant to automotive customers, hybrids, LTC, COB, leadframes and strips with multiple wires.

Contact us to see what is possible on your samples.

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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.](#)

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