



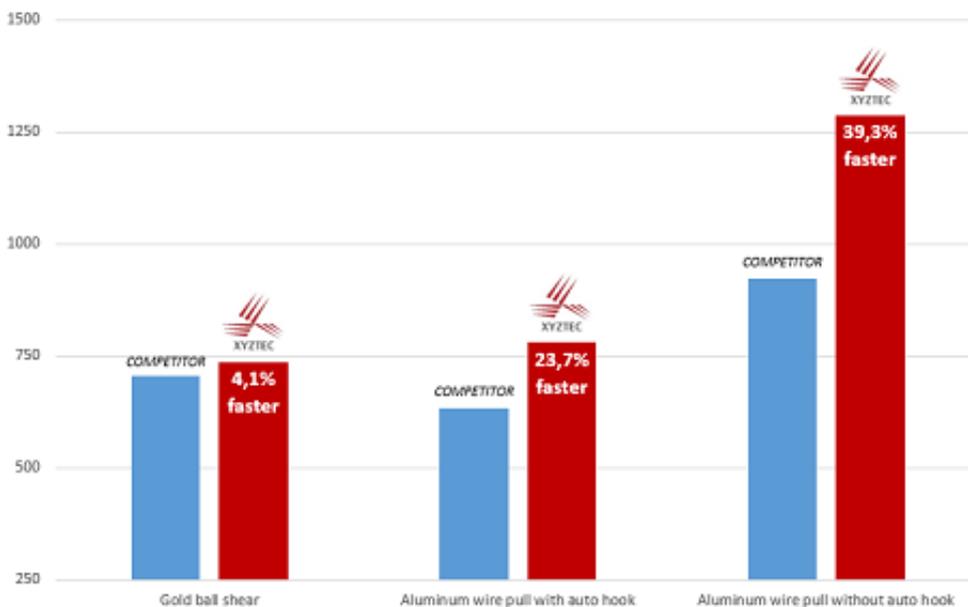
最新的技术摘要: Increase your bondtesting throughput

2015年6月19日

Did you know the Condor Sigma is the fastest bondtester?

It is well known that the **Condor Sigma** is the most accurate bondtester on the market, featuring unparalleled 0.075% accuracy. Fewer people know that it is also the fastest bondtester in the world. In a controlled study with experienced users, the throughput of both the **Condor Sigma** and the most well known competing system were compared. The **Condor Sigma** proved to be up to 39% faster.

Study results: Tests per hour



Units per hour study:

The throughput or units per hour (UPH) is affected by the many different test requirements and sample types. This comparison was made for fine wire first **bond shear** and **fine wire pull**. These being tests that typically require a high UPH. The shear tests were done on a sample with 35µm gold ball bond at 50µm pitch. The pull tests were done on 25µm aluminium wire at 150µm pitch.

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Bond testers

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

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Technology leader in bond testing worldwide



| Shear test settings | COMPETITOR | Condor Sigma |
|----------------------|---------------------|----------------------------|
| Test speed (µm/s) | 300 | 300 |
| Landing speed (µm/s) | 100 | 100 |
| Shear height (µm) | 3 | 3 |
| Overtravel (µm) | 0 | 0 |
| Fallback | Normal (50%) | 5gf (in nominal 10gf test) |
| Landing force (gf) | Factory set at 14gf | Programmable set to 5gf |
| Return speed (mm/s) | not available | 10 |

| Pull test settings | COMPETITOR | Condor Sigma |
|---------------------|-----------------|-----------------------------|
| Test speed (µm/s) | 300 | 300 |
| Fallback | Normal (50%) | 3.5gf (in nominal 7gf test) |
| Return speed (mm/s) | not available | 10 |
| Auto hook | Clockwise along | Clockwise along |

The study shows that in the **shear tests** the **Sigma** is 4,1% faster than the competitor. In the **pull tests** with auto hook the **Sigma** is 23,7% faster and without auto hook the difference is even bigger at 39,3%.

It should be noted that these test were a basic comparison for the time to test a single row of bonds. This makes the comparison possible with identical setups on the two machines. In practice the sample would have to be moved long distances between the die, and/or turned to test other rows on the die or lead frame. If these times were taken into account, the **Sigma** would clearly increase its lead over the competition because of its following **advantages**:

- **Easier microscope setup** between operators at a shift changeick of a button

It should also be noted that the above and measured speed advantage of the **Condor Sigma** would apply equally when testing **automatically**.

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研討會

為了增進和提供我們客戶更多的剪切力測試的知識和解決方案, XYZTEC 賽世鐵克安排了一系列的 **研討會** 來傳遞專業知識並以最直接簡單的方式來簡報. 每一場的 **研討會** 都是專注在剪切力測試原理的特別定題.

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