

Amkor Technology

Nordson DAGE Case Study

Nordson DAGE is the market leading provider of award winning bond testing systems for destructive and non-destructive mechanical testing of electronic components. This case study demonstrates our commitment to providing solutions that help our customers succeed.

Since its foundation in 1968, Amkor Technology has grown into one of the world's largest semiconductor manufacturers serving many of the world's leading semiconductor companies. The company is an industry leader in application-specific semiconductor package design and assembly; the right packaging being critical to ensure optimal system performance as integrated circuits continue to increase in speed and complexity. Amkor offers the industry's broadest range of package formats and sizes, from "off-the-shelf" through to highly customized designs.

Employing over 20,000 people worldwide, the company has developed expertise in high-volume manufacturing techniques and has continually diversified and expanded its operations across the globe.

Amkor in China

The company has seen significant expansion throughout Asia with the development of production centres in strategic locations. The manufacturing facility located in Shanghai, China, focuses upon the production of laminate and leadframe packages using chip scale, plastic ball grid array, stacked die, flip chip and Amkor's MicroLeadFrame® format. Amkor China started using Nordson DAGE bond testing equipment for their quality assurance testing in 2001. They now have multiple Nordson DAGE bond testers, most of which are Nordson DAGE 4000 machines, providing the facility with a uniform testing platform.



Nordson DAGE 4000 bondtester. Used by Amkor Technology China to perform solder ball shear, wire pull, die shear, bump pull and zone shear tests.

“ We will continue to invest in Nordson DAGE bond testing equipment as we expand our operations. I cannot recommend Nordson DAGE highly enough. ”

William Zhang
Quality Assurance Manager
Amkor Technology China

In Action

Due to the broad array of products that Amkor China manufacture, the Nordson DAGE 4000 bond tester is used to carry out a wide range of applications including solder ball shear, wire pull, die shear, bump pull and zone shear. The multipurpose nature of the Nordson DAGE 4000 machine has proved crucial to their operation as William Zhang, Quality Assurance Manager, Amkor Technology China explains: "It just wouldn't be practical in terms of time, space and data correlation for us to have different machines performing separate tests. We need one system that can take care of all our testing requirements which is exactly what the Nordson DAGE bond tester gives us."

Why Nordson DAGE?

When Amkor China were looking to purchase new bond testing equipment in 2001, Zhang didn't feel the need to look at any other equipment suppliers based on his previous experience of Nordson DAGE. "The quality and data accuracy of the Nordson DAGE bond testing equipment is unsurpassed and their after sales support is the best in the world" enthused Zhang. "That coupled with the fact that many semiconductor companies use Nordson DAGE bond testers meant there was no decision to make. Nordson DAGE was the natural choice. What's more, our operators like the easy to use ergonomic design which results in increased efficiency."

Sound Investment

Zhang has been very impressed with every aspect of Nordson DAGE and would highly recommend them. "All the way through the process from the initial installation and operator training to ongoing applications support, we have found Nordson DAGE to be extremely knowledgeable, professional and responsive" concluded Zhang.

“ The quality and data accuracy of the Nordson DAGE bond testing equipment is unsurpassed and their after sales support is the best in the world. For me there is no other choice of bond tester. I cannot recommend Nordson DAGE highly enough. ”

William Zhang
Quality Assurance Manager
Amkor Technology China

For more information, please contact your Nordson DAGE regional office or speak with your Nordson DAGE representative, all of which are listed on www.nordsondage.com.

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