

# Micronas

## 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.

Micronas is one of the world's leading semiconductor designers and manufacturers, supplying cutting-edge semiconductor and sensor system solutions to major consumer and automotive electronics customers across the globe. They are a market leader in innovative global TV system solutions, and also provide a variety of microcontrollers and Hall-sensors for automotive and industrial applications such as car dashboard, body control, motor-management and comfort functions.

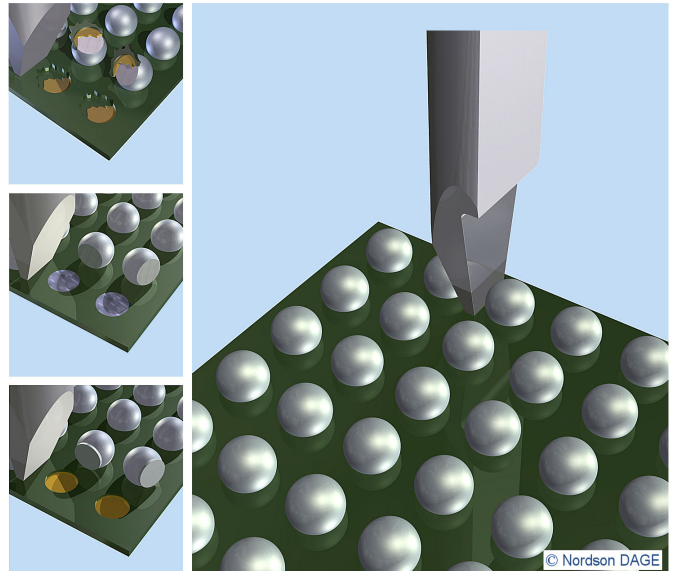
Employing around 1,800 people world-wide, the Micronas operational headquarters are based in Freiburg, Germany. The quality assurance team utilizes Nordson DAGE bond testers and has been successfully using Nordson DAGE equipment for well over fifteen years.

“ If anyone asks me about bond testing equipment I would always recommend Nordson DAGE. In my opinion they are probably the best in the market. ”

**Joachim Zenker**  
**Quality Assurance Manager**  
**Micronas**



Nordson DAGE 4000 Bondtester and solder bump shear test



Ball shear test

## Evaluating the Options

In 2004, Micronas needed to replace its existing bond testing equipment as it was nearing the end of its lifecycle. Joachim Zenker, Quality Assurance Manager at Micronas, was tasked with reviewing the market and selecting the best products for the laboratory. Despite having a good history with Nordson DAGE equipment, Zenker carried out an exhaustive evaluation, to ensure they still had the best option going forward. He concluded that the Nordson DAGE machines offered the best solution, as he explained: “We tested different machines from a range of suppliers and the Nordson DAGE equipment was by far the most developed as well as having the best features. Additionally, we recognized Nordson DAGE’s experience as a global operator with significant know-how and support to back up their products.”

## In Action

In 2009 Nordson DAGE bond testers are a vital ingredient in ensuring the highest levels of quality are maintained at Micronas. The quality assurance team uses the Nordson DAGE 4000 and 5000 machines to carry out a range of tests, including die shear, bond pull and bond shear. At the start of every new production run, first line samples are tested to ensure the product meets exacting quality specifications. Results from the Nordson DAGE bond testers give the quality assurance team all the information they need to assess whether to give the green light for full production. “With a 24-7 production line, it is essential that our testing equipment is reliable and robust because if we can’t test our first line samples we can’t authorize production and everything would come to a stop”, said Zenker.

## Why Nordson DAGE?

When Micronas came to choose its bond testing equipment, it recognized some key elements that set Nordson DAGE apart from its competition. The robustness and reliability that they had experienced over many years with Nordson DAGE equipment remained a big factor, but the multi-functionality of being able to carry out a number of tests on the same machine provided significant flexibility, and was also more cost-effective than buying separate testers.

The final factor was ease of use, meaning that the quality assurance team only required a relatively short amount of time to familiarize themselves with the new equipment.

## Outstanding Service

Zenker was pleased with the end to end service offered by Nordson DAGE, from initial sales consultations right through to technical support and delivery.

“ We had no problems whatsoever in dealing with Nordson DAGE. They deliver on time and can adapt according to our requirements – if we need things quickly, they react accordingly. ”

**Joachim Zenker**  
**Quality Assurance Manager**  
**Micronas**

**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](http://www.nordsondage.com).**

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