



# Wafer X-ray Metrology

**Measuring the Invisible™**

Fast Automatic X-ray Measurement of TSVs, MEMS and Wafer  
Bumps for Voiding, Fill Level, Overlay & Other Critical Dimensions

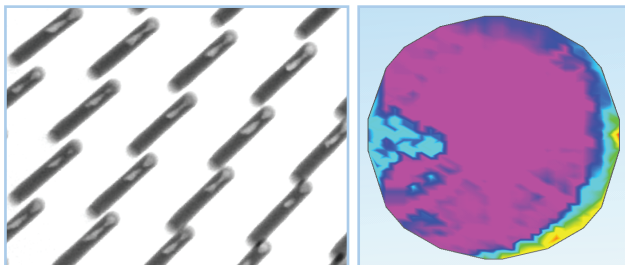
[www.nordsondage.com](http://www.nordsondage.com)

**Nordson**  
DAGE

# XM8000 Wafer X-ray Metrology Platform

## Advantages

- High-throughput x-ray metrology and defect review of both optically hidden and visible features of:
  - TSV
  - 2.5D & 3D IC Packages
  - MEMS
  - Wafer Bumps
- Non-destructive in-line wafer measurement of voiding and fill levels, overlay, critical dimensions and much more
- Industry standard handling of wafers - up to 300 mm
- Non-standard substrate handling versions available



X-ray image of 10  $\mu\text{m}$  x 100  $\mu\text{m}$  TSVs      Wafer level results

## X-ray Technology

Nordson DAGE, the leader in x-ray inspection for the electronics industry, presents the XM8000 x-ray metrology platform, for the fast, fully-automated, non-destructive measurement of, and within, metal features on up to 300 mm wafers. The XM8000 takes market-leading capabilities from Nordson DAGE's existing x-ray systems, such as the unique, filament-free, sealed-transmissive x-ray tube, and adds unprecedented levels of precision, detection, automation and throughput. This enables the XM8000 to be used as an integral part of the fabrication and packaging of integrated circuits or as part of quality control and product acceptance.

The XM8000 x-ray platform measures the invisible - fast - so you have no hidden surprises.

[www.nordsondage.com](http://www.nordsondage.com)    [www.measuringtheinvisible.com](http://www.measuringtheinvisible.com)

## Nordson DAGE

Nordson DAGE is the market leading provider of multi-award winning test and inspection systems for destructive and non-destructive testing of electronic components. We take pride in having delivered support to small and multi-national organizations globally since 1961.

With global headquarters in Aylesbury, UK, Nordson DAGE is part of the NASDAQ listed Nordson Corporation [NDSN] which has direct operations and sales support offices in more than 30 countries - see [www.nordson.com](http://www.nordson.com).

## For More Information

Please contact:

[xminfo@nordsondage.com](mailto:xminfo@nordsondage.com)

or contact your nearest local Nordson DAGE office listed below.

<b>Americas</b>	Tel: +1 510 683 3930 email: <a href="mailto:sales@nordsondage.com">sales@nordsondage.com</a>
<b>China</b>	Tel: +86 512 6665 2008 email: <a href="mailto:sales.ch@nordsondage.com">sales.ch@nordsondage.com</a>
<b>Germany</b>	Tel: +49 7021 950690 email: <a href="mailto:sales.de@nordsondage.com">sales.de@nordsondage.com</a>
<b>Japan</b>	Tel: +81 432 995851 email: <a href="mailto:sales.jp@nordsondage.com">sales.jp@nordsondage.com</a>
<b>South East Asia</b>	Tel: +65 6796 9500 email: <a href="mailto:sales.sg@nordsondage.com">sales.sg@nordsondage.com</a>
<b>United Kingdom</b>	Tel: +44 1296 317800 email: <a href="mailto:globalsales@nordsondage.com">globalsales@nordsondage.com</a>



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