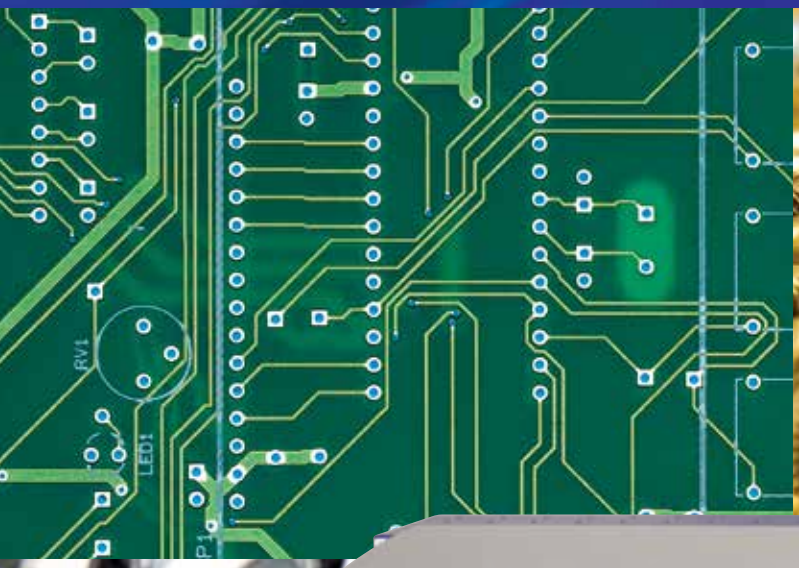
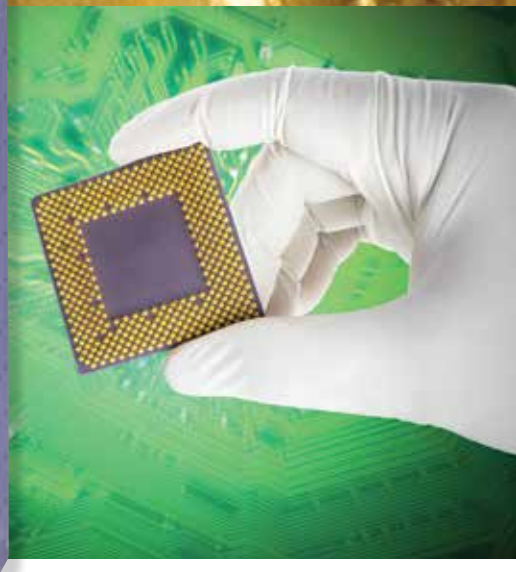
COATINGS

Coating Thickness Measurement and Material Analysis with XRF

Fast non-distructive analysis for consistent production and high product quality





Where every mil or micron counts

OXFORD INSTRUMENTS

The Business of Science®

COMPACT Series / **MAXXI** Series

High versatility and best price-performance

The right range of products for your analytical requirements

Our coating thickness measurement instruments are based on X-ray fluorescence, which is a widely used and proven analytical technique offering easy to use, fast, non-destructive analysis with no sample preparation. Analysing solids and liquids over a wide element range of Ti^{22} to U^{92} in the periodic table.

Advantages

- Excellent price-performance ratio
- Ease of use
- High quality reliability for 24/7 operation
- Fast service response time

COMPACT Eco and **MAXXI** Eco offer the best price-performance ratio available today, **COMPACT** 5 and **MAXXI** 5 are ideal for users who demand the highest measuring precision with the added benefit of optimum versatility.

The sample chamber design with optimised X-ray geometry allows the use of small collimators for highest accuracy and best precision.

Non-destructive measurement in only a few seconds

- Single or multi layer analysis for quality assurance and process control
- Quantitative analysis of alloy composition
- Metal ion content for optimum plating bath control

Options for COMPACT 5 & MAXXI 5

- For best results regardless of sample size: Automatic multiple collimators with programmable X-ray tube current
- For automated and batch measurement: Software-controlled XYZ table and analysis head movement for greatest flexibitlity

Best price-perfomance ratio

COMPACT Eco

MAXXI Eco
Large sample chamber

Manual XYZ table option

COMPACT 5

MAXXI 5
Large sample chamber

Automatic XYZ table and
automatic collimator changer options

Conformance to ASTM B568 and ISO3497 International test methods

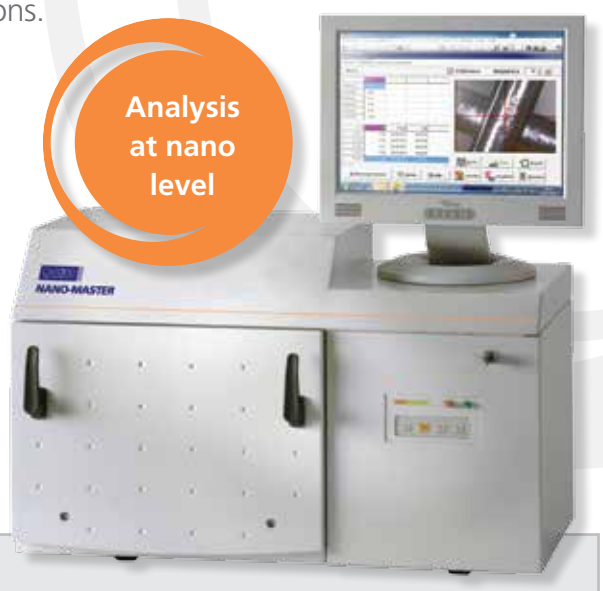
NANO-MASTER / CONTI System

Measurement of coating in nanometre range / inline measurement

The **NANO-MASTER** is an innovate μ-XRF benchtop analyser for the measurement of the latest generation of very small electronic components and thin coatings using standardless analysis down to the nanometre scale. The **NANO-MASTER** has lowest limits of detection and allows component compliance testing to the RoHS, WEEE, ELV specifications.

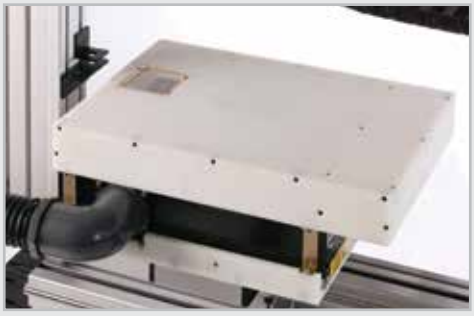
Highlights

- High resolution Peltier cooled Si-PIN detector for simple element identification
- HiSpex digital pulse processing for greatest X-ray flux with minimal analysis time
- X-ray beam down to <25 μm for smallest spot analysis
- Vacuum measuring chamber for extended element range from Al^{13} to U^{92}



CONTI System

For inline measurements we custom design the **CONTI** System to integrate into your production process. After analysing the measuring task in respect of possibilities and restrictions, we develop, plan, implement and control an individual system in close cooperation with you.



X-Master

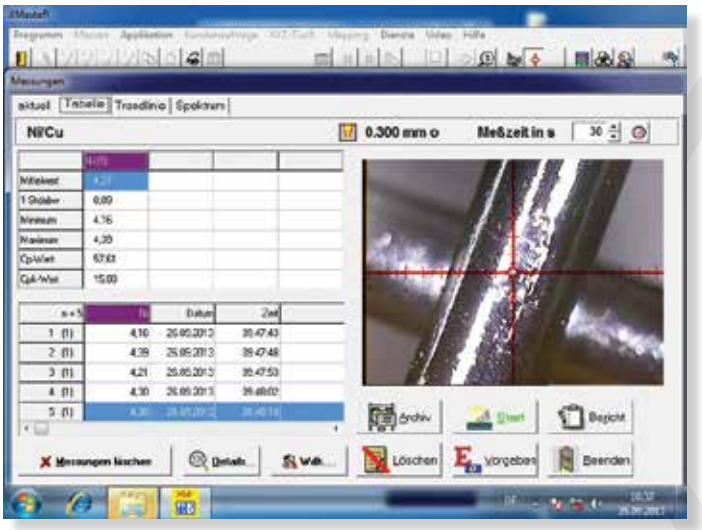
Operating software

X-Master

The operating software **X-Master** is used highly successfully with a huge number of applications, new ones are constantly added.

Optional software modules

- **µ-Master** for coating thickness measurement
- **Element-Master** for material analysis
- **%-Master** for material analyses (jewellery)
- **Report-Master** for reports in MS Word
- **Data-Master** for database management
- **Liquid-Master** for bath solutions



visit **www.oxford-instruments.com/coatingthickness** for more information

OiService
worldwide service and support

Oxford Instruments Customer Service recognises there are many decisions to make when choosing the right product and company with which to partner. It is not just about superb instrument functionality or the rugged design of the analyser. The OiService teams are aware of the necessity to demonstrate our depth of knowledge, skills, experience and expertise with regard to supporting our customers.

Oxford Instruments offers a range of support packages that provide you with the level of service you require:

- Extended warranty contracts
- Tailored service support contracts
- World class training academy
- Technical help desk support
- Genuine approved Oxford Instruments spare parts
- Consumable products
- Service repair at OiService facility

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