MAXXI 6

Robust / Flexible / Total Reliability / High Precision



coating thickness and materials analysis

- Ensures consistent production and high product quality
- No sample preparation
- Delivers highest accuracy and best precision
- Provides high versatility and best price-performance ratio



The Business of Science®

KARI 6

For consistent production and high product quality

Coating thickness measurement, based on X-ray fluorescence (XRF), is a widely accepted and industry-proven analytical technique, offering easy to use, fast and non-destructive analysis, requiring little to no sample preparation, capable of analysing solids or liquids over a wide element range from ¹³Al to ⁹²U on the periodic table.

With superior resolution and high efficiency SDD, the **MAXXI** 6 is the ideal instrument for measuring the thinnest coatings and element composition at trace level.

Key features

- Micro-focus Be window X-ray tube combines high precision, short measurement time with field-proven high reliability, outstanding product life expectancy and low cost of ownership
- Superior resolution Silicon Drift Detector (SDD) offers optimal efficiency at all energy levels with improved limits of detection (LOD)
- Multi collimator optimizes flux generation, enhancing measurement throughput



- Giant slotted chamber design with generous interior volume, ideal for a big variety of standard and oversized samples
- The "USB easy choice" allows operation using a standard computer through USB connection with no additional hardware or firmware
- Made in Germany to the highest engineering standards, robust design for long term reliability
- Approved by PTB (Physikalisch Technische Bundesanstalt), ensures highest level of radiation safety

















MAXXI 6

Where every mil or micron counts

Performance and compliance

- Made-In-Germany ensures the highest quality and reliability
- PTB approval ensures the highest level of radiation safety
- Measurement methods according to ISO 3497, ASTM B568, DIN 50987, IEC 62321

Giant slotted chamber

- Programmable XY stage
- Internal volume (w x d x h): 500 mm x 450 mm x 170 mm
- Innovative crash protection design

Programmable stage

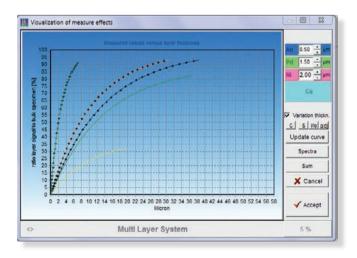
- Easy load feature with prepositioning laser
- Maximized table travel range and speed
- Automated measurement

Software and calibration

- Intuitive Windows[™] 7 based MaxxControl software
- Choice of empirical calibrations for highest accuracy or FP model for easy calibration
- Free selection of elements for composition analysis and free definable layer structure for thickness analysis
- Factory preloaded calibration for RoHS and precious metals (optional)







Coating Thickness Analysis

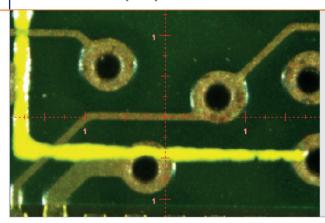
As easy as...

1 Place samples in large analysis chamber



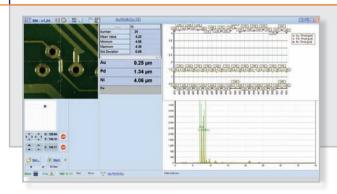
- Non-destructive analysis: no sample preparation
- Easy sample introduction large door and slot for large flat samples
- Safe and secure operation
- Side window design provides easy observation of the sample during measurement

2 Select sample point to measure



- Clear pin-point accuracy high resolution colour video camera with high magnification
- Rapid and simple sample positioning using a joystick or mouse
- Single or multi point analysis with customer defined analysis patterns
- Unattended operation using optional programmable XY stage

3 Press Start



- Results displayed in seconds
- Clear, large colour graphics for clarity and ease of use
- Simple "One click reporting" for results transfer into Word, Excel, HTML, PDF format
- Customised reports for total flexibility

MAXXI 6: Application optimised solutions



Metal Finishing

	Cr		
	Zn		Corrosion
Fe	Fe	Fe	resistance

TiN	TiAIN	Cr	vvear/neat
Tool-steel	W-carbide	Fe	resistance

	<u></u>		
	Ni	AuCuCd	Cosmetic
	Cu	Ni	finish
Brass	Al	Cu	

Minimise production cost of the plating process and maximise production output



Electronics

SAC	Au		
Ni	Ni	Ag	
Ag	Cu	Cu	
Ceramic	Ероху	Ероху	Solderabilit
	Au/Ag		
Au	PdNi		
Ni	Ni	Ni	Electrical
Cu-alloy	Cu	Cu	contact
NiP			
Al	Surface	finish	

Increase productivity with better process control

Top layer: SAC (SnAgCu) alloy composition and coating thickness Second layer:

Ni coating thickness

Ag

Third layer:

Ag coating thickness

Ceramic Bottom layer: Substrate



Compliance Testing



High Reliability

RoHS/WEEE/ELV compliance testing

Improve quality control to ensure products meet specifications



Metal Alloy

% Au	% Cr	% Au
% Ni	% Fe	% Ag
% Cu	% Ni	% Cu
	% Mo	% Zn

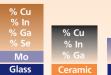
Assay and ID

Metal alloy composition and identification

Rapid, non-destructive analysis of jewellery and other alloys



Alternative Energy



% Cd	
% Te	ı
Glass	ı

Photovoltaic Cells

Solar panels and fuel cells

Ensure product efficiency and uniformity

Oxford Instruments: The only supplier who offers a complete range of coating thickness analyzers



Mag/Eddy gauges



Coating thickness systems for metal finishing, galvanizing and electroplating



Handheld XRF

Portable XRF solution for single or double layer coating thickness measurement



Benchtop XRF

Fast, reliable, high performance non-destructive coating thickness measurement and materials analysis



Inline system

Inline coating thickness measurement, custom designed and integrated into the production process

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 **Oi**Service teams are aware of the necessity to demonstrate our depth of knowledge, skills, experience and expertise with regard to supporting our customers.

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- Technical help desk support
- Extended warranty contracts
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- World class training academy
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- Rental analyser scheme on certain products
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