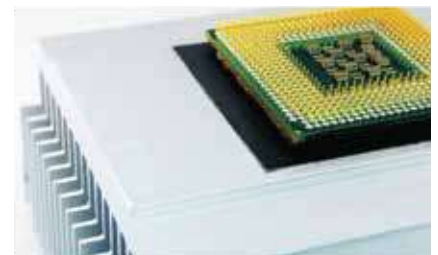


PT-3800A

Plating Thickness Analyzer



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

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►► Plating thickness measurement Element categories and contents analysis

PT-3800A is specially designed for rapid and non-destructive detection of plating thickness, element categories and contents. The Characteristics are summarized as below:

1. Top light tenting
2. Up-and-down platform
3. High-accuracy movable platform
4. Small-aperture collimator
5. High-resolution detector
6. Visual operation
7. Auto height positioning
8. Auto spot search
9. Mouse positions the test point
10. Excellent ray shielding
11. Super large chamber design
12. Safe protection of test interface



X-ray tube

- ◆ Analyzable minimum thickness down to 0.01 μm
- ◆ Collimator is 0.2mm
- ◆ Electronic height sensor
- ◆ High stability copper X-ray tube with micro facula
- ◆ High-accuracy movable sample platform



movable platform



X-ray tube

►► Performance and characteristics

- Measurement of samples with different thicknesses and irregular shapes
- Φ 0.2 micro collimator can test the point
- High-accuracy movable platform can precisely locate the test point with repeated accuracy less than 0.005mm
- Height positioning laser can auto locate the height
- Positioning laser can precisely locate the facula to ensure the test point aligns to it
- The mouse can control the movable platform; the mouse clicking position is the test point
- High-resolution detector can improve the analysis accuracy
- Excellent ray shielding
- The test interface is protected by high sensitivity sensor

►► Application Fields

Measurement of plating thickness, element composition of plating and solutions.

Measurement of gold, platinum, silver, other precious metals and various jewelries composition. Precious metal and ornament processing industries; banks, ornament sale and detection institutes; electroplating industries.



►► Configurations

- Open sample chamber
- Double-laser positioning system
- Lead glass shield cap
- SDD detector
- Electronic circuit for signal detection
- 3-D movement is realized by using 2-D movable platform and up-and-down movement of detector and X-ray tube..
- High and low voltage power supply
- X-ray tube
- Height sensor
- Sensor protection
- Computer and ink jet printer

►► Specifications:

Measurable elements:	Na~U
Simultaneously analysis ability:	maximum 24 elements & 5 plating layers
Temperature control range:	4°C ~ 450°C above room temperature
Excellent repeatability:	0.1%
Long-time working stability:	0.1%
Ambient temperature:	15°C - 30°C
Power supply:	AC 220V ±5V, AC purified stabilized power is suggested
Dimension:	576(W)x495(D)x545(H)
Weight:	90kg
Analyzable detection limit of element content reaches 2ppm	
Analyzable minimum layer is 0.01μm	
Analyzable maximum thickness is within 50μm(depend on different matrix)	
Arbitrary optional analysis and identification models	
Independent matrix effect correction models	
Multi-variable non-linear regression procedure	

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



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1. Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personalities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXYFY human minds,souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

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