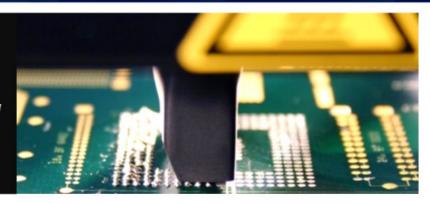


BGA Rework Station

R-FΔ-016

BGA rework station offers proven rework technology.

It includes thermal demount from PCB (de-soldering), solder removal of irregular shaped residues, and soldering after re-ball of a wide spectrum of SMT components.



Applications of Rework Fields

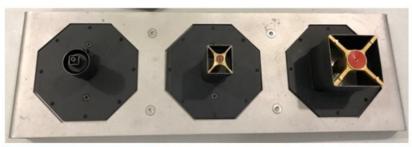
- BGA, μBGA/CSP, QFN, PoP, QFP, PGA
- Small passives
- · RF shields, RF frames
- · Connectors, sockets
- · Sub assemblies, daughter boards

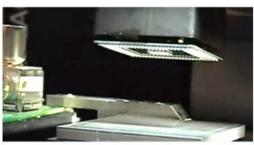
Through hole technology pin in paste reworkable underfill, conformal coating

Executable sample size: 2 mm*2 mm ~ 30 mm*30 mm

Benefits

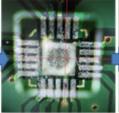
- · Independent process operation
- · Fixed prism doesn't need regular calibration
- The complete rework cycle is a cost-effective system solution
- Reproducible placement accuracy
- Coordinated control of all process parameters: temperature, gas flow, soak time, process environment
- Immediate visualfeedback reduces process development
 time
- · Repeatable profiles from machine to machine

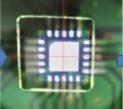














Case Log-in, please Call: +886-3-611-6678 (TW)

- Business WindowTechnical Window
- ext.3821 ext.3920
- 🗷 sales@ma-tek.com
- 🔀 vichuang@ma-tek.com

You are highly welcome to use **Fedex** (Account No.2665-9953-6), **DHL** (Account No.968368648) or **UPS** services for sample shipping. MA-tek will pay the courier charge upon sample arrival.



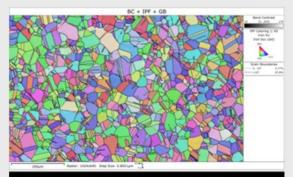
Electron Backscatter Diffraction (EBSD)

Uniquely suited to characterize crystallographic properties!

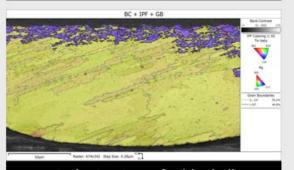
3-MA-014



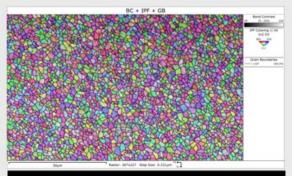
- A. Substructure analysis
- B. Grain size/boundary distribution
- C. Crystal orientation analysis
- D. Phase identification and distribution
- Deformed and recrystallized structures analysis
- F. Texture analysis



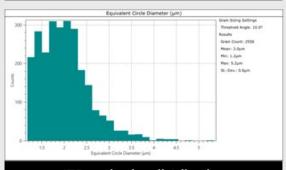
Orientation Map of Stainless steel



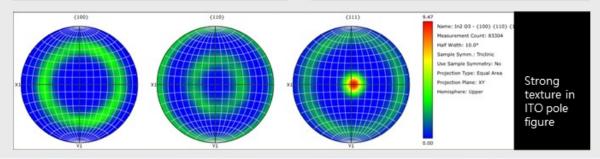
Grain structure of solder ball



Preferred orientation of ITO grain structure



ITO grain size distribution



Case Log-in, please Call: +886-3-611-6678 (TW)

- · Business Window
- c ext.3821
- 🗷 sales@ma-tek.com
- · Technical Window
- € ext.3896
- tem@ma-tek.com



Waterproof Test Services

Ingress Protection

3-RA-021

Protected Against Water Test Equipment



This equipment is suitable for the waterproof performance verification of the following industry and products.



Automobile / Motorcycle Lamps



5G Products



Medical Equipment



Wearable Products



Aerospace Industry



Mobile Phones



Watches



Electrical Enclosures



IPX9K Powerful High-Temperature Water Jets

A. Water Temperature: 80±5°C

B. Pressure: 8000~10000 KPa

C. Test Angle: 0/30/60/90°

D. Test Angle: 30 seconds per angle

E. Test Platform Rotation Speed: 5±1r.p.m

Standard

ISO 20653 \ ISO 16750 \ IEC 60529 \ GB 4208 \
GB 2423.38 \ CNS 7138 \ DIN-40500-9

Case Log-in, please Call: +886-3-611-6678 (TW)

- · Business Window
- c ext.3821
- 🔀 sales@ma-tek.com
- · Technical Window
- € ext.6555
- pd_service@ma-tek.com

You are highly welcome to use **Fedex** (Account No.2665-9953-6), **DHL** (Account No.968368648) or **UPS** services for sample shipping. MA-tek will pay the courier charge upon sample arrival.



X-ray Fluorescence Spectrometer - XRF

portable XRF is Ready!

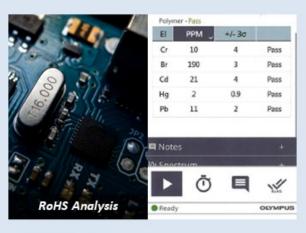
3-SA-014



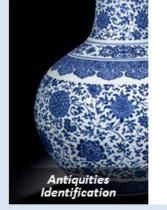
Applications and Strengths

- A. Non-contact and non destructive analysis
- B. Liquid, powder or solid can be analyzed
- C. The analysis diameter is 2mm in minimum
- D. Mg to U can be detected. The detection limit is able to reach ppm level.
- E. The thickness analysis of metal coating
- F. XRF is able to do the analysis of PMI, precious metals, RoHS and Halogen free









Si 318996.48(ppm) 20475.95(ppm) 41247.82(ppm) 0.00(ppm) Ti 625.85(ppm) 26497.94(ppm) 7584.39(ppm) 105.29(ppm) 30.91(ppm) 27.80(ppm) 22.82(ppm) 158.72(ppm) Ga As 275.59(ppm) 89.44(ppm) 12.32(ppm) Sr 256.25(ppm) 34.48(ppm) 1171.63(ppm) 12.07(ppm) 582374.25(ppm) Ba

Case Log-in, please Call: +886-3-611-6678 (TW)

- · Business Window
- c ext.3821
- 321 🛮 🗷 sales@ma-tek.com