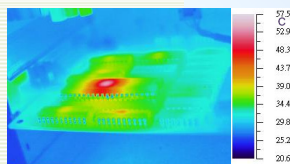
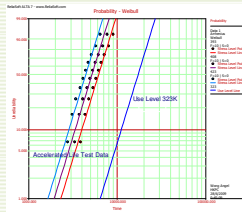


### Services On Offer

- High Low Temperature Test
- Temperature & Humidity Test
- Thermal Shock Test (Air Type/Liquid Type)
- Vibration and Shock Test
- Combined Climatic Vibration Test
- HALT & HASS Test
- Printed Circuit Board Qualification Test
- High Reliability Reflow Simulation
- Resistance to Reflow Soldering Heat Test
- Resistance to Wave Soldering Heat Test
- Push and Pull Test
- Dye and Pry Test
- Autoclave Test
- Infrared Thermography
- Vibration and Shock Test for Railway & Automotive Electronics Device

### 服務範圍：

- 高低溫測試
- 恆溫恆濕測試
- 熱衝擊測試（氣態／液態）
- 振動及衝擊測試
- 三綜合環境測試
- 高加速壽命測試
- 電路板資格測試
- 高可靠性回流焊模擬測試
- 對回流銲接的抗熱能力測試
- 對波峰銲接的抗熱能力測試
- 推拉力測試
- 紅墨水浸染分離測試
- 高溫高壓蒸煮測試
- 紅外線溫度影像測試
- 鐵路及汽車電子設備振動及衝擊測試



Our Centre can help you  
**Improve Product Quality**

本中心可靠性測試及分析服務能助你  
**提升產品質素**

Through upgrading its testing facilities, the Reliability Testing Centre is offering new services to assist local electronics practitioners to shorten the product production cycle, reduce product development time and cost, discover potential product defects at early stage to enhance the reliability of their products effectively.

The Centre is also qualified by IBM to act as its first testing centre in Asia to conduct printed circuit board (PCB) testing at the IBM Mixed Soldering Assembly (MSA) Level.

透過提升中心的設備，可靠性測試中心現提供更多新的服務以協助本地電子廠商縮短產品由設計至推出市場的周期，減省產品開發的時間及成本，並可於早期找出產品的潛在缺點而加以改良，有效加強產品的可靠性。

本中心亦獲 IBM 認可，成為該公司首家亞洲區獨立印刷線路板測試實驗室，測試其印刷線路板是否符合應用於高端伺服器等可靠性電子產品的混銲製造水平。



Enquiry:  
查詢

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Ms Angel Wong 黃小姐 : 2788 5783 , angel@hkpc.org

**FREE of Charge  
免費**



## High Reliability Reflow Simulation System\*

高可靠性回流錫模擬測試\*

Model 型號: Vitronics Soltec XPM3.1240

- 12 top and bottom heating zones
- 4 cooling zones
- 350 °C max. operation temperature
- $\pm 1$  °C temperature control accuracy
- Lead free application
- 12 段上下加熱區域
- 4 段冷卻區域
- 350 °C 最高溫度設定
- $\pm 1$  °C 溫度控制精確度
- 無鉛製程



「中小企業發展支援基金」撥款資助  
Funded by SME Development Fund



\*This service is free of charge to local SME's till March 2014.  
\*此測試服務將免費提供予本地中小企業至 2014 年 3 月。

## Highly Accelerated Life Testing (HALT) & Highly Accelerated Stress Screening (HASS) Test System 高加速壽命及高加速應力篩選測試系統



Model 型號: Qualmark Typhoon 2.0

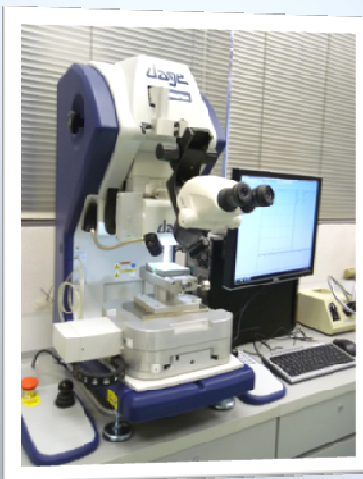
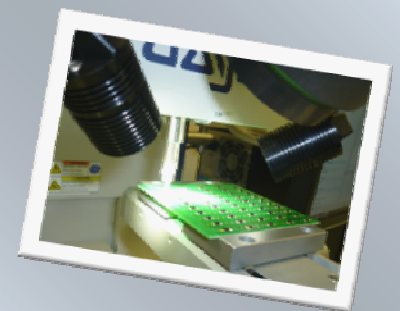
- Temperature: -100°C to +200°C
- Thermal Ramp Rate 70°C to 100°C /min
- Vibration: 5 to 75grms, 5 to 5000Hz
- Six degree of freedom
- 溫度範圍：-100°C 至 +200°C
- 升降溫速度 70°C to 100°C /min
- 振動範圍：5 至 75grms, 5 至 5000Hz
- 可同時多軸及多方向振動



## Solder Joint Shear Tester 焊點推力測試系統

Model 型號: Dage 4000+

- Accuracy:  $\pm 0.1\%$
- Maximum force: 50kg
- Maximum speed: 2mm/s
- Shear width: 1, 2, 3, 4, 5, 9mm
- 精確度： $\pm 0.1\%$
- 最大力度：50kg
- 最高速度：2mm/s
- 可推闊度：1, 2, 3, 4, 5, 9mm



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## Combined Climatic Vibration Test System

### 三綜合環境測試系統

Model 型號: CEPREI CEEC-THV-500B; STI S-0404; STI D-300-3

- Vibration with temperature and humidity change
- Temperature & Humidity range: -40°C to +150°C; 25% to 98%RH
- Frequency range: 5 to 1500Hz
- Acceleration range up to 98g
- Displacement range up to 25mm peak to peak
- Vertical and horizontal slip table
- 可調控溫濕變化振動測試
- 溫度及濕度範圍：-40°C 至 +150°C; 25% 至 98%RH
- 振動頻率：5 to 1500Hz
- 加速範圍可達 98g
- 峰峰值振動幅度可達 25mm
- 垂直及水平振台

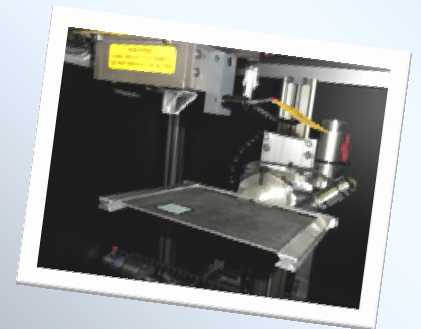
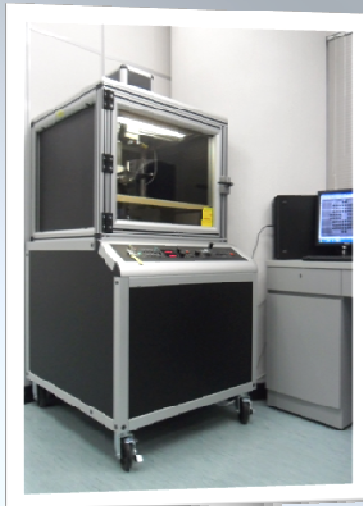


## X-ray Inspection System

### X 射線檢查系統

Model 型號: Glenbrook JewelBox-90T

- Five-axis control over the inspected product, including 360° rotation and tilt
- Magnification: from 7X to 2000X
- 五軸控制：包括 360° 轉動及傾斜
- 放大範圍：由 7 倍 至 2000 倍



## Air Thermal Shock Chamber

### 熱衝擊試驗箱

Model 型號: Votsch VT7012

- Air to air thermal shock test within the range of -80°C to +220°C
- Can perform various international test standards, including MIL-STD-883, MIL-STD-810, MIL-STD-202, IEC 60068-2-14, IPC-TM-650 and others
- 高低溫測試範圍：-80°C 至 +220°C
- 乎合國際不同標準測試要求，包括：MIL-STD-883, MIL-STD-810, MIL-STD-202, IEC 60068-2-14, IPC-TM-650 等



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## Liquid Thermal Shock Tester 液態熱衝擊測試裝置

Model 型號: Votsch VFS 2/07/15/2

- Temperature range of -65 °C to +150 °C
- Can perform various international test standards, including MIL-STD-202, MIL-STD-750, MIL-STD-883, JEDEC A106 and others
- 溫度範圍: -65 °C 至 +150 °C
- 乎合不同國際測試標準要求, 包括: MIL-STD-202, MIL-STD-750, MIL-STD-883, JEDEC A106 等



## Autoclave 高壓高壓蒸氣測試

Model 型號: Express Test ET-244P

- Dimensions: Dia 9.5 x Depth 24 in
- Temperature range: 100~150 °C
- Maximum pressure: 56 psig
- Can perform JESD 22-A102
- 尺寸: 直徑 9.5 x 深度 24 in
- 溫度範圍: 100~150 °C
- 最高壓力: 56 psig
- 可進行 JESD22-A102 測試



## Universal Tensile Tester 拉力測試系統

Model 型號: QTest-II

- Maximum tension capacity: 1000N
- Speed range: 0.05in/min~15in/min
- Can perform ASTM D413 and D1367
- Can perform Peel Strength Test
- 最大強度: 1000N
- 速度範圍: 0.05in/min~15in/min
- 可完成 ASTM D413 及 D1367
- 可完成張力、剪切力、剝離強度測試



## Lead Free Reflow Soldering System 無鉛回流錫系統

Model 型號: SunEast NT-4007N

- Forced convection
- Seven heating zones
- Maximum temperature of 350 °C
- 強制對流
- 七段加熱區域
- 最高溫度為 350 °C



## Vibration Test System 振動測試系統

Model 型號: IMV VS-500-4

- Frequency 5~3000Hz, maximum acceleration 91G, maximum rated force 500kg
- Can perform sine or random vibration tests
- Frequency sweep test, resonance dwell test
- Can perform shock test/bump test (reference waveforms: half-sine wave, sawtooth wave, trapezoidal wave, triangle wave, synthesized wave and haversine wave)
- 頻率 5~3000Hz, 最大加速度 91G,
- 最大額定強度 500kg
- 可作正弦或隨機振動測試
- 可作頻率掃描及共振點駐留試驗
- 可作振動測試/衝擊測試 (波形: 半弦波形、鋸齒波形、梯形波形、三角波形、綜合波形和半正弦波形)。



## Lead Free Wave Soldering System 無鉛波峰錫系統

Model 型號: SunEast SAC-3JS

- Dual wave system
- Maximum solder bath temperature of 300 °C
- Conveyor speed range: 0.5~1.8m/min
- 雙波峰系統
- 錫缸最高溫度達 300 °C
- 傳輸速度為 0.5~1.8m/min



## Climatic Cycling Chamber 快速溫濕交變測試箱

Model 型號: Weiss WK-480/70/15

Model 型號: Angelantoni SU250C 15 ESS

- Temperature range of -70 °C to +180 °C
- Temperature change 15 °C/minute
- Humidity tests within the humidity range of 10% to 95% RH and temperature range of 10 °C to 95 °C
- 溫度範圍: -70 °C 至 +180 °C
- 溫度變化: 15 °C/min
- 濕度測試範圍: 10% 至 95% RH 及溫度範圍: 10 °C 至 95 °C



## Automatic Surface Insulation Resistance Test System 全自動表面絕緣電阻測試機

Model 型號: GEN3 AUTOSIR 128

- Measure range: 10<sup>6</sup> Ω ~ 10<sup>13</sup> Ω
- Bias voltage: 5V, 10V, 50V, 100V or external voltage supply
- Measurement channels: 128
- 量程: 10<sup>6</sup> Ω ~ 10<sup>13</sup> Ω
- 測試電壓: 5V, 10V, 50V, 100V 或外置供電
- 測試通道數量: 128

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