

# 能源與冷凍空調工程系 Department of Energy and Refrigerating Air- Conditioning Engineering

## 節能檢測與分析 Inspection and Analysis for Energy Saving

電力電子與超音波  
節能檢測實驗室  
Energy Saving and Inspection by  
Power Electronic and Ultrasound  
Lab.



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### 研究領域

超音波技術、非破壞檢測、塑膠製程檢測與節能分析、冷凍真空乾燥檢測技術、節能分析與檢測技術、人體舒適度

### 近期研究主題

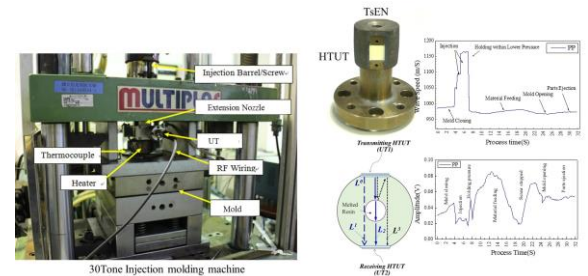
- 高溫超音波感測器
- 冷凍乾燥過程檢測
- 氣體輔助熱壓檢測
- 塑膠熔解混合檢測
- 生產過程節能分析
- 射出過程資料分析
- 節能分析與檢測技術
- 人體舒適度探討

### Research Area

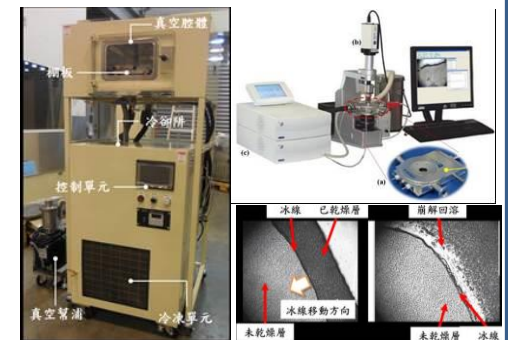
Ultrasound technique, Nondestructive testing, Inspection and energy saving analysis of polymer processes, Inspection and analysis of freeze-drying process, Energy saving technology, Human comfort inspection

### Recent Topics

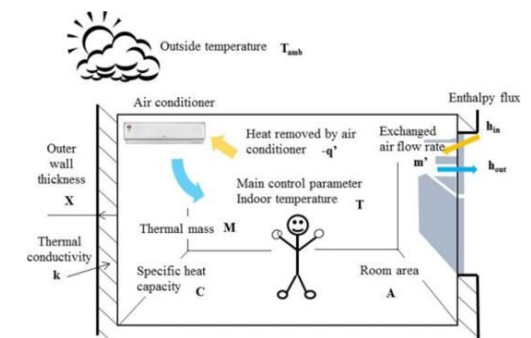
- High temperature ultrasonic sensor
- Inspection of freeze-drying process
- Inspection of gas-assisted hot embossing process
- Inspection of polymer melting and mixing process
- Energy saving analysis of manufacturing process
- Data mining of injection molding process
- Energy saving and human comfort



超音波感測器與量測系統開發  
Developing Ultrasonic sensors and  
monitoring system



冷凍真空乾燥過程檢測  
Inspection of freeze-drying process



人體舒適度探討  
Inspection and analysis of human  
comfort