

# MicroVision



**Model 853**  
**IC Mark / Lead Inspector**

Microvision Model 853 IC Mark / Lead Inspection system has significantly increased the throughput using constant motion inspection with strobed illumination, while maintaining extremely high accuracy and repeatability.

## Key System Features

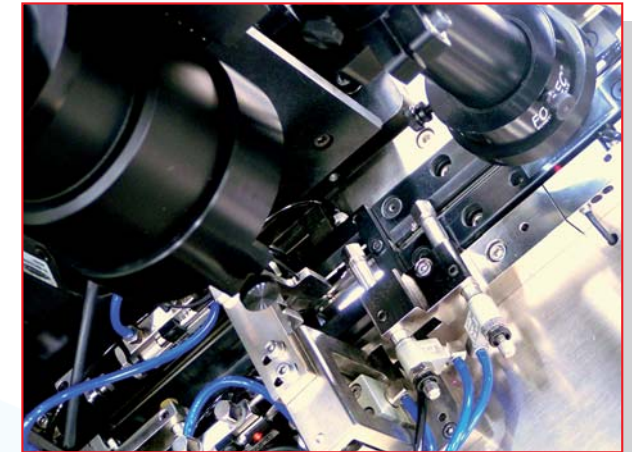
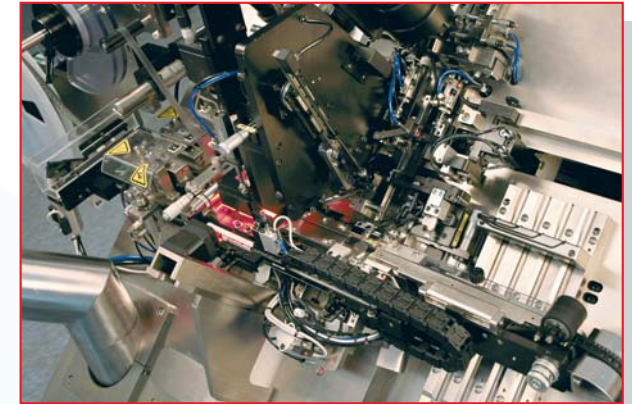
- True Standoff and Coplanarity
- Typical UPH:  
Up to 12,000 units per hour (UPH) for TNR  
Up to 13,000 units per hour (UPH) for Tube with both mark and lead inspections enabled for SOIC 8 leads narrow body
- The versatile system accommodates a wide range of device types (SOIC, SSOP, QSOP, TSSOP, MSOP and others) and Modular Changeover Kits are available for rapid conversion
- Windows XP OS with Microvision Software
- Software Temperature Controller from the menu recipe
- Carrier Tape embedded inside the system compartment, providing an economical, robust and reliable system
- 4 Programmable Reject Tubes
- Input Loader 40 tubes or Tesec Tray
- Output Loader 40 tubes or Tape and Reel or Tesec Tray
- 2D In-pocket Inspection ready with auto reject and replacement kit
- Laser Printer and Network ready
- Options include: Device Rotator, Automatic 4 Take-up Reels, Ionizer Blower Kit and Detaper
- Jam Rate Performance 1:5000 (incoming material dependant)

## Inspection Capabilities

- Accuracy: +/- 0.0005"  
(From a known standard device)
- Repeatability +/- 0.0003"  
(Most critical inspection criteria)
- Mark Inspection:  
Missing, incomplete or incorrect characters and logos, smeared, blurred, scratched, low contrast, angle, misaligned, reversed, double and additional marks
- Lead Inspection:  
Coplanarity, standoff, lead spacing, offset, tweeze, spread, gap, width, missing, broken, etc.

## Facilities Requirements

- Dimensions : 74" (W) X 29" (D) X 45" (H)
- Weight : 500 kg
- System Power : USA 110Vac +/- 10%, 50/60Hz  
Europe / Asia 220-240Vac +/-10%  
50/60Hz, 10Amps, single phase
- Compressed Air : 70 psi, 12 scfm
- Temperature : 5°C (41° F) to 40°C (104° F)
- Humidity : 10% to 90% non-condensing
- Classification : < Class 10 clean room



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