ASC International

AV 871
Series

Automatic Optical Inspection Machine

AV-871

Precise
Efficient
User Friendly

AV 871 Series Off Line AOI Machine

AV 871 Series have been enhanced with Image Base and Algorithm Analysis for more precise inspection. Improved structure and hardware for operation stability, speed, user friendly, quality control and productivity.

Machine Characteristics

Graphic User Interface, Simple Programming, Optimized Learning Mode, Real Time 'NG' Verification

Functions

- Programming By CPL Data
- Realtime Process Control
- Bad Board Auto Skip
- Program Optimization
- Multi Master Images
- OCR Recognition
- Component Data Export
- SPC and Image Export
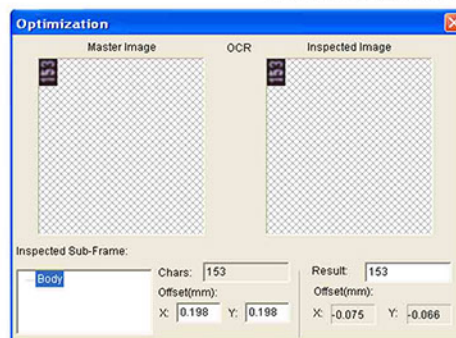- Barcode Reader (Optional)
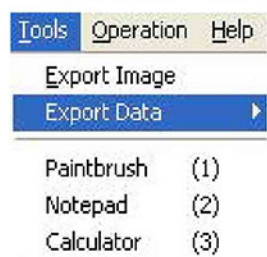- Rework Station (Optional)

Machine Graphic User Interface

Program Optimization

Optimization

- Auto Learning (1)
- Manual Learning (2)
- Test (3)

Apply   Close

OCR Recognition

Optimization

Master Image   OCR   Inspected Image

Inspected Sub-Frame:

Body

Chars: 153   Result: 153
Offset(mm):   Offset(mm):
X: 0.198   Y: 0.198   X: -0.075   Y: -0.066

Data, Image Export

Tools   Operation   Help

Export Image
Export Data ▶

Paintbrush (1)
Notepad (2)
Calculator (3)

Good

No Good

| Wrong Part | IC leg bend | Bridge | Damaged | Less Solder | Upside down | Missing | No Solder |

Realtime Inspection Result

System instantly displays realtime 'NG' Data for verification.

Performance

- Realtime Inspection Verification
- Stable PCB Holding Fixture
- Fast Tact Time
- Graphic User Interface
- Simple Programming
- Optimized Learning Mode
- Stable Structure
- Safety Light Curtain
- Minimum False 'NG' Detection
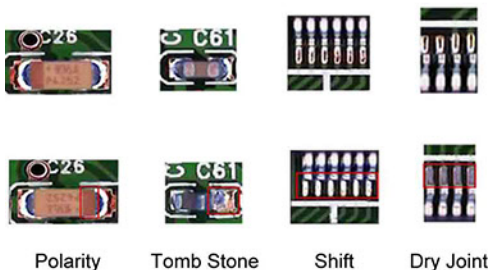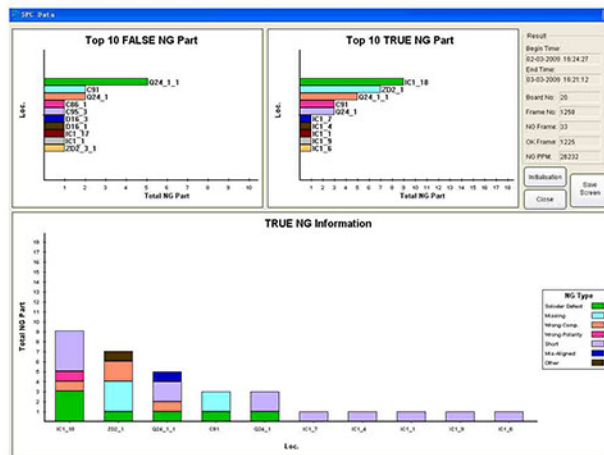- Near 'Zero' Escape or Leak

NG Data

NG:2

Programming by Mounter Data

Statistical Process Control Data

Polarity   Tomb Stone   Shift   Dry Joint

AV-871

AV 871 *Off Line AOI Machine*

Specification

Application

For Inspection	SMT Components and Solder conditions

Imaging Technology

Camera	Industrial CCD Camera 0.3M / 1.3M-pixel
Field of View	12 x 16mm / 15 x 19mm / 24 x 32mm
Image Resolution	15um / 25um. (01005/Metrix 0.4 x 0.2mm)
Lighting	Multi-Layers, Multi Color High Intensity LED

Software

Interface	Graphical Display
Language	English and Chinese
Analysis Method	Image Based with Algorithm Analysis
Inspection Techniques	Auto Learning with Statistical Modeling Technology
Programming Method	CAD Import, Board Copy or Manual
Character Recognition	Optical Character Recognition (OCR)
Monitor and Reports	Statistical Process Control, 'NG' Statistical Analysis
'NG' Confirmation	Verification Station
Computer	CPU P4, Duo Core, 1GB, 160GB

System Specification

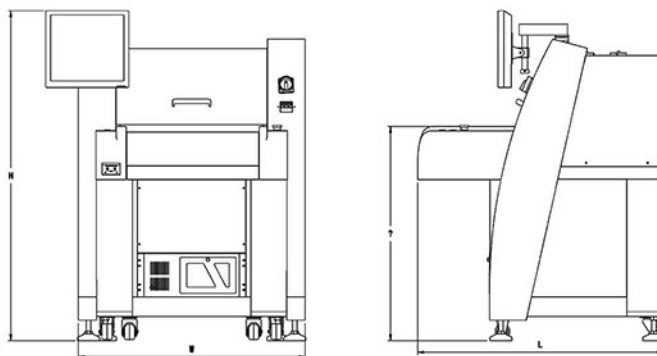|	
Inspection Speed	40cm² /Sec
Motion Max. Speed	700mm/Sec, Servo Motor
Component Height	Top: 30mm Bottom: 50mm
Electrical Power	220VAC, 1ph, 50/60Hz, 1.0Kw
Operation Environment	Temperature: 10°~ 40°C, Humidity: 30 ~ 80%RH
Optional	Hand Held Barcode Reader, Rework Station

AV 862 Range of Products	M Size	L Size
Machine Specification	Standard	Large
PCB Size (mm)	350 x 460mm	560 x 660mm
Machine Size (cm)	110(L)×110(W)×143(H)	142(L)×120(W)×148(H)
Weight (Kgs)	430Kgs	550Kgs

Machine Dimension

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