

OptiCon THT-Line

AOI System for efficient Quality Check
of THT Assemblies



Maximum Fault Detection

- Unique multispectral illumination
- THT component, THT solder joint and wave-soldered SMD component inspection
- Freely configurable test functions and illumination opportunities

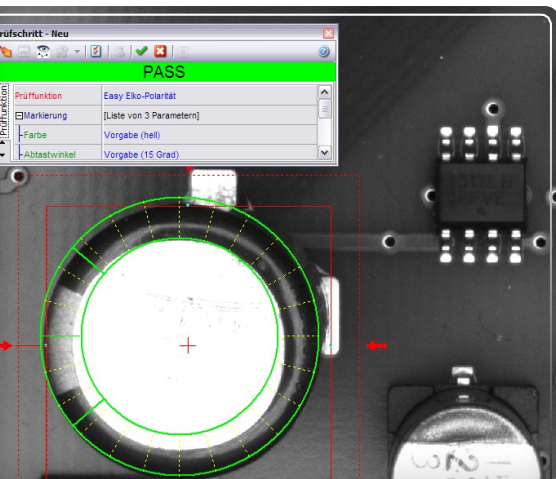
Integration Options for THT Production Process

- Manual or automated feeding via accumulating transport system
- Component side and solder side can be inspected at multiple positions within the production line
- Solder side inspection either on the upper conveyer belt or during the PCB return in the lower system area

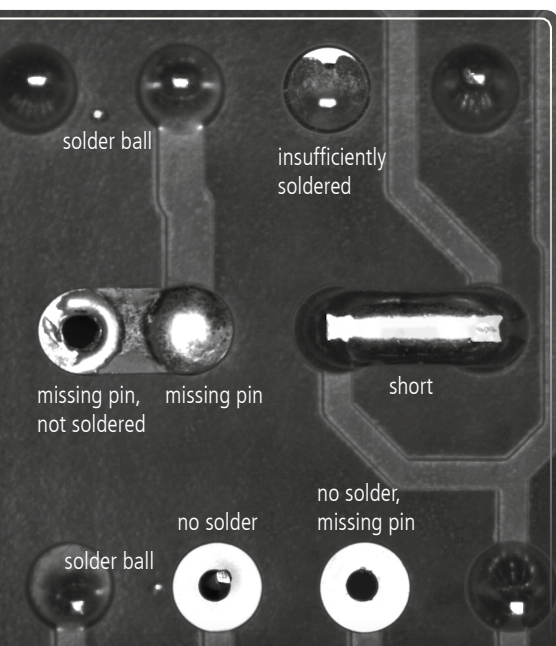
Speed Advantages over common AOI Systems

- "Flip free" double-sided inspection of THT assemblies
- Multiple and independently working AOI modules in one system

OptiCon THT-Line



Polarity check at THT components

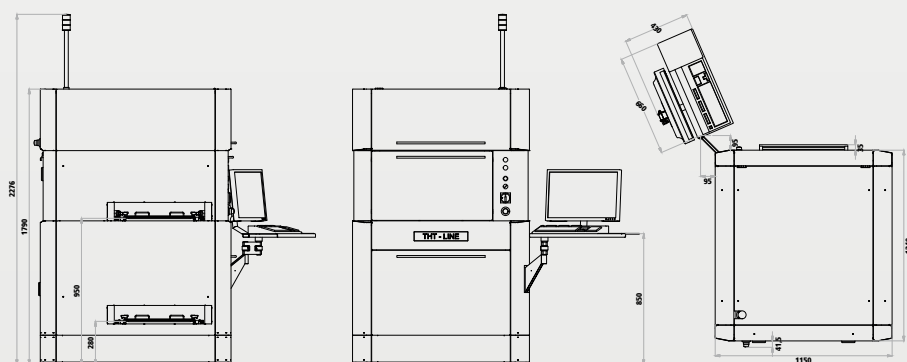


Typical solder faults

OptiCon THT-Line	Top-side AOI module	Bottom-side AOI module
Image capturing technology	CCD matrix camera	CCD matrix camera
Colour depth	up to 24 bit	up to 24 bit
Integration	in upper transport system	in upper and lower transport system
Inspection scope	Presence, placement/positioning, polarity and labelling (OCR) of THT assemblies	THT solder joints, SMD components, SMD solder joints
Illumination system	multispectral, multi-directional	multispectral, multi-directional
Inspection speed	up to 60 cm ² /s	up to 100 cm ² /s
Maximum carrier size	up to 620 mm x 510 mm	up to 620 mm x 510 mm
Maximum inspection area	540 mm x 450 mm	540 mm x 450 mm
Inspection height	up to 80 mm	5 mm
Clearance	above PCB: 80 mm below PCB: 20 mm	above PCB: 80 mm below PCB: 20 mm

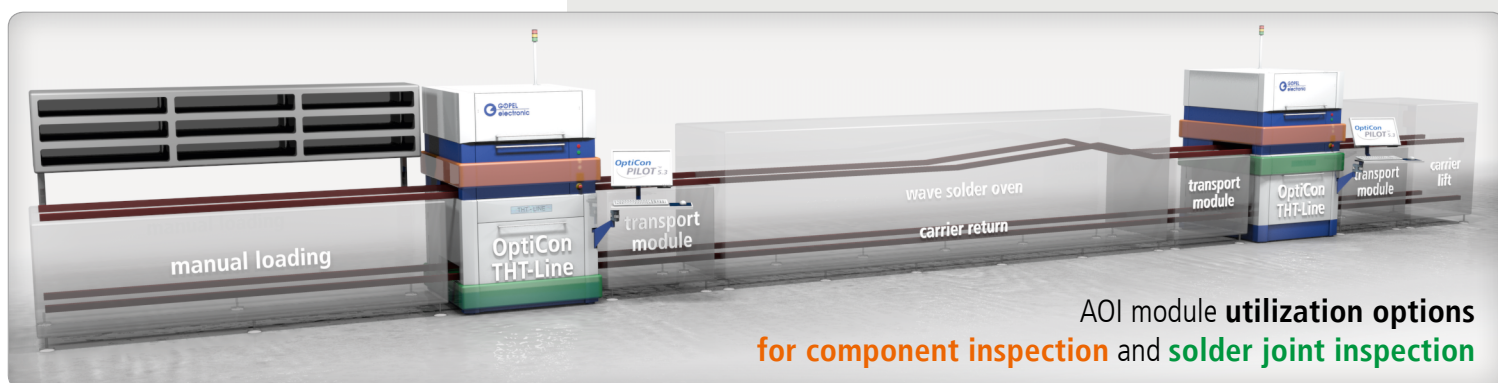
System Specifications

Power requirements	230 VAC / 2 kVA; 6 bar compressed air, consumption < 20 l/h
Carrier transport system	accumulation roller
Transportation direction	left-right / right-left / left-left / right-right
Inline interface	SMEMA, Siemens, Sensor
Dimension (W x D x H)	1150 mm x 1300 mm x 1800 mm



Options

- Barcode/2D code reading system
- Communication with RFID reading systems
- System configuration for manual loading



AOI module **utilization options**
for **component inspection** and **solder joint inspection**



AOI-THT/E/2013-04

ISO 9001 certified

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