

OptiCon THT-Line

AOI System configured specifically for efficient Quality Check of THT Assemblies in the Production Process



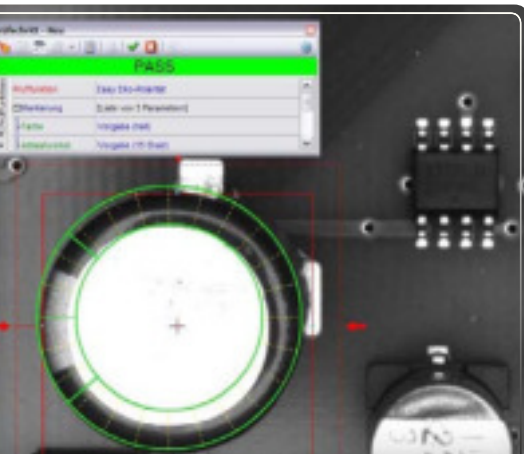
OptiCon THT-Line enables the automated inspection of THT assemblies with a component height of up to 80 mm. The system can be utilised in the production process either for manual loading or for inline integration into an accumulation roller conveyor system. During the inspection process PCBs may remain in the production specific carrier. Depending on production organisation, carriers with or without assemblies can be returned in the lower part of the AOI system.

The software package OptiCon PILOT controls test program generation as well as assembly inspection. For efficient system utilisation, repair station software, statistical fault evaluation and offline programming software modules are available. Flexible data interfaces provide the opportunity to communicate with external MES and quality management systems.

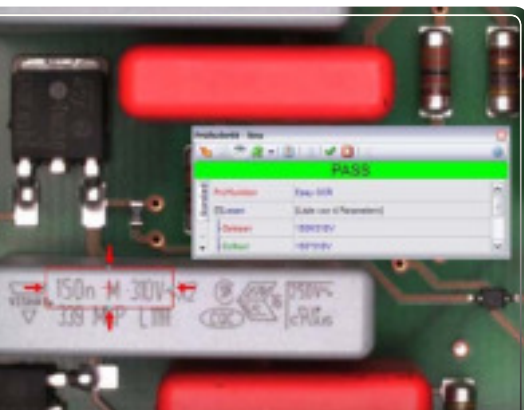
Automated Optical Inspection OptiCon THT-Line



Typical THT assembly



Polarity check at THT components



Optical character recognition for components
by means of easyOCR™ function

OptiCon THT-Line		
Transport system	Inspection area	X = 540 mm, Y = 450 mm
	Maximum carrier size	X = 620 mm, Y = 510 mm
	PCB clearance above PCB	80 mm
	PCB clearance underneath PCB	10 mm
Inspection module	OptiCon THT camera module with Extended Colour Technology™	
	Resolution	35 µm per pixel
	Inspection height	up to 80 mm
	Illumination system	TopFlash and QuattroFlash multi spectral illumination
	Inspection speed	up to 60 cm ² per second
Inline system	Power requirements	230 VAC / 2 kVA 6 bar compressed air, consumption < 20l/h
	Carrier transport system	accumulation roller
	Transportation direction	left-right / right-left / left-left / right-right
	Inline interface	SMEMA, Siemens, Sensor
	Dimensions (W x D x H)	1150 mm x 1300 mm x 1800 mm
Stand-alone system	Power requirements	230 VAC / 2 kVA 6 bar compressed air, consumption < 20l/h
	PCB loading/reloading	one-sided/double-sided
	Dimensions (W x D x H)	1050 mm x 1200 mm x 1600 mm
Options	barcode/2D code reading system	
	communication with RFID reading systems	
	inspection module for PCB bottom side	

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