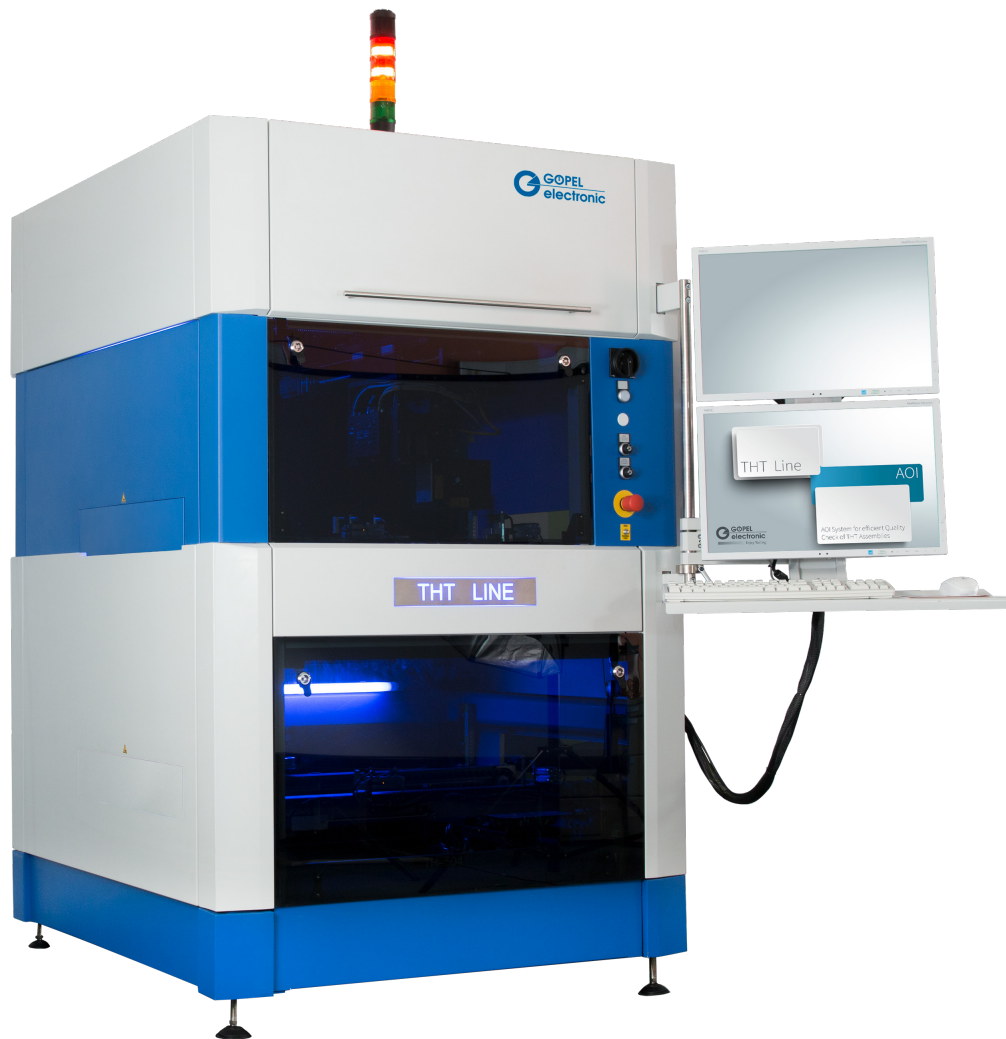




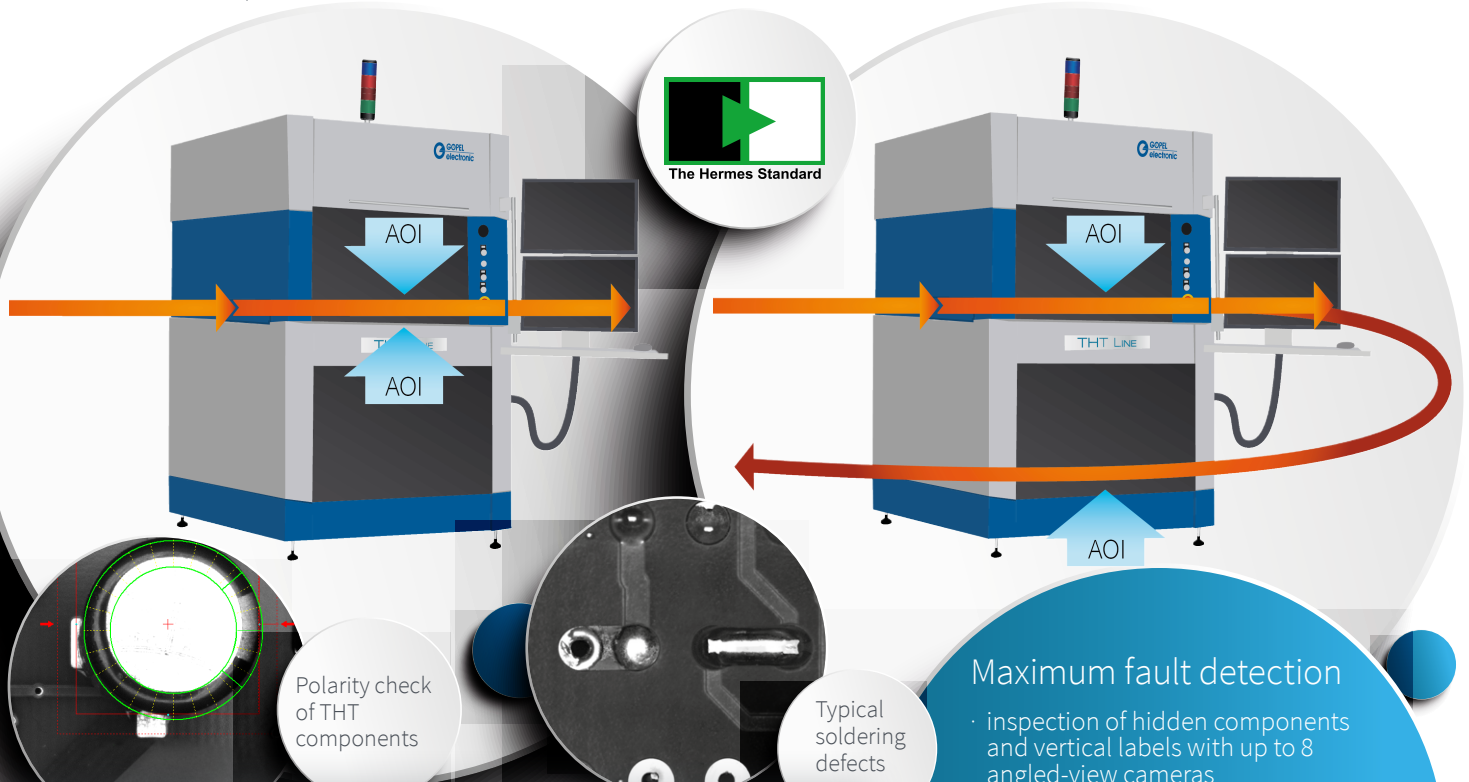
THT Line

AOI system for THT assemblies



- inspection of THT components, THT solder joints and wave-soldered SMD components
- automatic or manual loading of assemblies with or without carrier
- double-sided inspection of THT assemblies on the upper transport or lower return





Parameters	AOI module component side	AOI module solder side
integration possibilities of AOI module	on upper transport	on upper transport or lower return
image capturing	orthogonal camera (telecentric), up to 8 angled-view cameras	orthogonal camera (telecentric)
max. inspection height	up to 80 mm	up to 10 mm
illumination system	multispectral, multidirectional	
inspection speed	up to 100 cm ² /s	
max. inspection area	540 mm x 450 mm	
max. carrier size	up to 620 mm x 510 mm	
component clearance	above PCB: up to 135 mm below PCB: up to 35 mm	

Technical specifications of overall system

power requirements	230 VAC / 2 kVA, compressed air at 6 bar, consumption <20 l/h
transport system	belt conveyor for assemblies with or without carrier
transport direction	left-right, right-left, left-left, right-right
in-line interface	SMEMA, Siemens, Sensor
dimensions (W x D x H)	1150 mm x 1300 mm x 1800 mm

Options

laser height measurement system
barcode, DMC or RFID reader system
system configuration for manual loading

Maximum fault detection

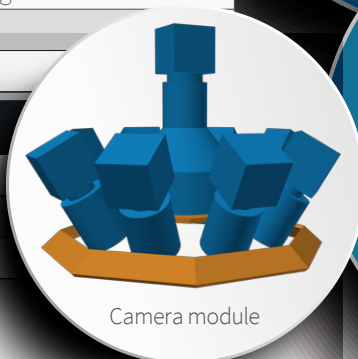
- inspection of hidden components and vertical labels with up to 8 angled-view cameras
- unique multispectral / multidirectional illumination
- inspection height of up to 80 mm both for orthogonal inspection and angled-view inspection

Efficient use for production

- inspection of the solder side on the upper transport or the lower return
- AOI modules operating in parallel and independently in one system
- fully automated generation and optimization of test programs for THT solder joints with MagicClick

MES/Industry 4.0

- flexible data interfaces for MES and traceability
- data management and comprehensive fault analysis via PILOT Connect
- central verification of inspection results via PILOT Supervisor



Camera module