Multi Line Assist

Assembly assistance & inspection for THT assembly stations

· visual worker guidance via projection unit
· permanent optical monitoring in real time with camera
· three different image field sizes and resolutions
· MagicLight technology for perfect illumination
· connection to MES systems

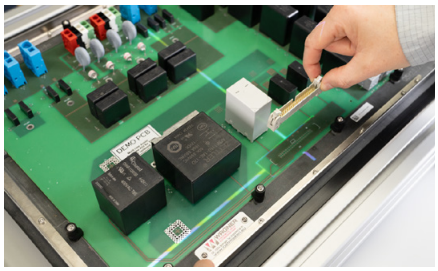
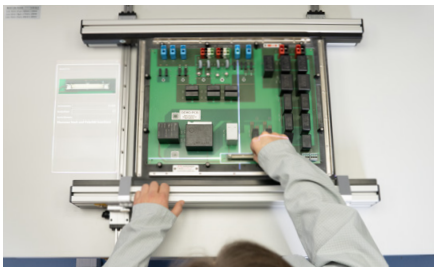
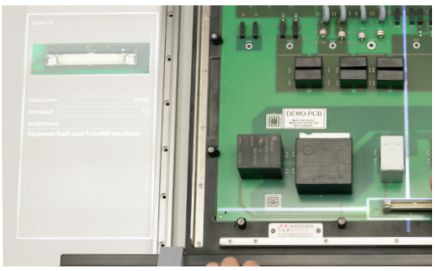


GOPEL electronic

Technical specifications

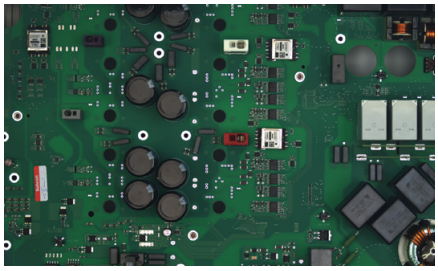
Assembly assistance

- visual worker guidance by projecting information into the operator's field of vision

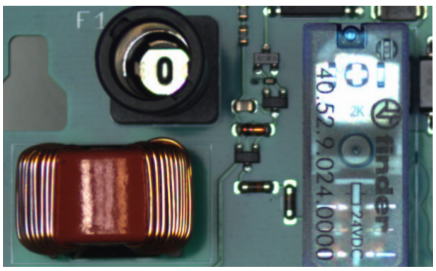




Inspection

- permanent visual inspection in real time or final inspection at the end of assembly
- completeness check, position and colour recognition
- presence, correct positioning, polarity and labelling (OCR)







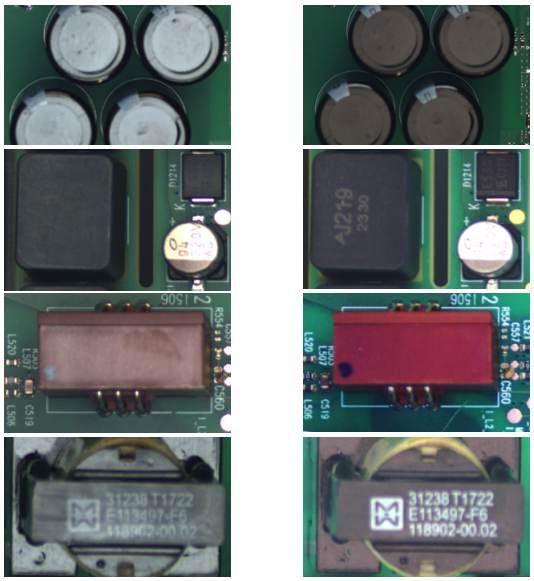



MagicLight Technology

- Top and side illumination for ideal image contrast
- minimal flashing when illumination changes
- up to 50% interference light suppression
- different image brightness levels with constant illumination
- dimmable assembly

MAGICLIGHT

without MagicLight | with MagicLight



Multi Line Assist - Assembly assistance & inspection for THT assembly stations

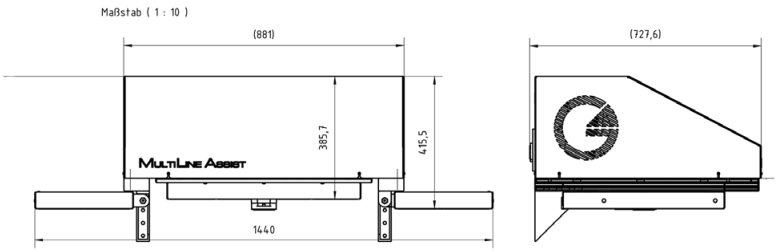
Technical specifications

MES/Industry 4.0

- flexible data interfaces for MES and traceability connections
- data management and comprehensive error evaluation via PILOT Connect



Assembly drawing



Technical data

Illumination	LED top and side lighting MagicLight technology light colour 4,000 Kelvin (neutral white) illuminance on work surface approx. 2,500 lux			
field of view & recognition accuracy	focal length	field of view	resolution	recognition accuracy*
	35 mm	660 mm x 450 mm	81 µm/pixel	0.7 mm
	50 mm	475 mm x 320 mm	58 µm/pixel	0.6 mm
	75 mm	300 mm x 200 mm	37 µm/pixel	0.5 mm
camera	47 megapixels, colour			
max. inspection height	100 mm			
monitor	24“ oder 32“			
projector	Full HD DLP laser projection unit			
integration	self-integration: integration into existing table table solution: complete solution with height-adjustable table tabletop solution: tabletop frame for existing table working distance to test object 1310 mm			
module weight	45 kg (with side lighting an with mounting brackets)			
energy requirement	230 VAC/0.5 kVA			
operating system	Windows 11 i7, 32 GB RAM, 512 GB SSD integrated into basic module			

*Recognition accuracy is based on practical experience (e.g. inspection of small features such as lettering, pole marks, data matrix codes). Recognition accuracy improves under optimal conditions.

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