

OptiCon TurboLine

Inline AOI System for High-End Inspection



Maximum Fault Detection

- unique multispectral illumination
- patented 360° inspection in 1° steps with adapted focal plane
- program optimisation by means of statistically recorded inspection data

18 different Camera Configurations

- orthogonal top inspection (optional microscopic resolution)
- orthogonal bottom inspection
- rotatory angled-view inspection with unique inspection area

Speed Advantages over common AOI Systems

- double-sided PCB inspection without flipping
- identical inspection areas of the orthogonal and angled-view cameras
- loading and reloading by three-segment-belt during inspection

Automated Optical Inspection OptiCon TurboLine at a Glance



Software user interface OptiCon PILOT

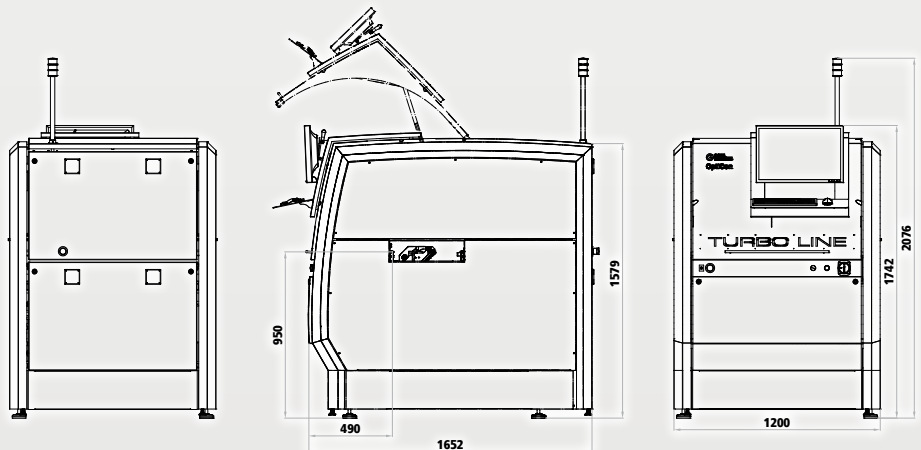


Repair station software



Statistics module

| Inspection Parameters | |
|--|--|
| Orthogonal top/bottom inspection, angled-view top inspection | |
| Image capturing technology | up to 48 megapixels, 24 bit colour depth |
| Lens | telecentric |
| Resolution | up to 6.5 μm |
| Illumination | multispectral, multi-directional |
| Handling time | 3 s |
| Inspection speed | up to 60 cm^2/s |
| Angled-view inspection | 0°–360° in 1° steps |
| Double-sided PCB inspection | without flipping |
| PCB size / carrier size | up to 610 mm x 460 mm |
| Max. PCB weight | 5 kg |
| PCB clearance top side | up to 80 mm |
| PCB clearance bottom side | up to 50 mm |
| Smallest inspectable component | 01005 / Pitch 0.3 |



| System Specifications | |
|---------------------------|---|
| Inline interface | SMEMA, Siemens, Sensor |
| Transportation directions | left-right / right-left / left-left / right-right |
| Power requirements | 230 V AC / 1 kVA; 6 bar compressed air, consumption < 20 l/h |
| Dimensions (w x d x h) | 1,200 mm x 1,652 mm x 1,742 mm |
| Weight | ca. 1000 kg |

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AOI-TL/E/2012-11

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