

## YXLON

### X-RAY INSPECTION

- 100% 3D measurement with powerful SPC Package for full traceability
- Multiple angle projection gives "shadow free" data
- Technology leadership emphasised by over 50% market share
- CAD/Gerber based easy programming
- Microsoft Windows 7 OS
- Dual Lane available
- Positive feedback to all major printer models



## LANDREX

### AUTOMATIC OPTICAL INSPECTION (AOI)

- 4 angled cameras & 1 top down for full fault coverage
- Linear drives and laser based board warp compensation as standard
- 01005 capable
- Substantial UK reference user base
- Benchtop version with 5 camera head identical to inline system
- SPC packages available



## kirsten

### WAVE SOLDERING

- Truly modular design allows freedom of choice for floor space and pre heat
- Freely programmable of speeds or dwells
- Interchangeable solder pot design Pb and Pb free
- JetWave solder pot design allows variable height wave



## GPD Global

### LIQUID DISPENSING

- Range of dispense systems for application of any liquid materials
- Specialists in dispense head design including Auger, High flow etc
- Applications include: solder paste dispensing, glob top, under fill etc



## mekko

### DRY STORAGE

- Full range of cabinets from single to 12 door
- De-Humidification to less than 2%
- Nitrogen and heating features available
- Local UK manufacture
- SPC software package for infinite storage traceability



## Quik-tool

### TOOLING

- High quality PCB support tooling for printing, dispensing and pick and place systems
- Ultra smooth and delicate support of all types of PCB
- 4 year operating guarantee



# ALTUS GROUP

SUPPORTING THE ELECTRONICS INDUSTRY



## Altus Group

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PRODUCT CATALOGUE  
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# Products:



## Solder Paste Inspection (SPI)



- 100% 3D measurement with powerful SPC Package for full traceability
- Multiple angle projection gives "shadow free" data
- Technology leadership emphasised by over 50% market share
- CAD/Gerber based easy programming
- Microsoft Windows 7 OS
- Dual Lane available
- Positive feedback to all major printer models



## Automatic optical measurement / inspection (AOMI)



- Absolute 3D measurement using 8 angled projections
- True measurement of critical features such as solder meniscus, lifted leads, etc
- CAD/Gerber based easy programming
- Possibility to retain all measurement and pictorial data for further analysis, traceability
- Dual lane available



## CONVECTION REFLOW



- Full range of convection ovens 5-14 zones
- Specialising in Nitrogen. Low consumption and effective flux management
- Unique features include Pyrolysis, dual, triple and quad track, multiple centre support. Energy saving options
- Leading supplier to all major Automotive manufacturers
- All thermal processes including curing, fast firing, hydrogen soldering etc.



## VAPOUR PHASE REFLOW



- Unique step process allows for full control of soldering profiles
- Concentration on low vapour losses and high energy efficiency
- Vacuum de-voiding Option
- Profiling using radio sensor
- Automation options for a batch process



## PCB HANDLING



- Complete range of economic handling systems
- Robust, high quality construction
- Can accommodate all panel sizes
- Custom units available
- Qualified by many global manufacturers



## ADDITIONAL EQUIPMENT



- Integrated PCB cleaner (contact or air knife or both)
- Inkjet or Laser marking
- Label placement
- Automatic programmable barcode reading



## CONFORMAL COAT & CURING OVENS



- Fully selective 5 Axis system
- Virtual elimination of masks
- Film gun for low viscosity fine coatings
- Spiral spray gun for higher viscosities
- Handles all current material types
- Thermal convection principle
- Almost bubble free magazine process
- Low power consumption
- Small footprint curing ovens
- Processes products in magazines, not individual PCB's



## CONDUCTION, GAS AND INDUCTION REFLOW



- High temperature flux-less soldering
- Ideal for ceramic and metal substrates
- Various inert atmospheres possible
- Plasma unit for de-oxidisation as an option
- Vacuum control for void reduction
- Small footprint gives high specific output



## ODD FORM PLACEMENT/INSERTION DE-PANELLING (ROUTING)



- Market leaders in flexible high speed odd-form placement
- Feeders to accommodate any components
- Inline or offline de-panelling
- Substantial global user base & support



## CUSTOM ASSEMBLY CELLS



- Final assembly turn-key solutions
- In line test handlers
- Laser marking



## STENCIL CLEANING



- Vertical to allow rapid cleaning and drying
- Pressure spray
- Solder pastes and glues cleaned
- Misprint cleaning both single and double sided
- High specific output.
- Small footprint
- Low energy use

## MAINTENANCE

- Pallets
- Oven heat exchangers
- Solder pastes and glues cleaned
- Wave solder parts



## PCB AND MAINTENANCE CLEANING (Ultra Fine)



- Aqueous systems
- Kolb chemistry matched but other providers may work
- Very high output from small footprint batch process
- Water recycling systems to avoid waste to drain

## WATER BASED CHEMICALS

- Flux removal
- Misprint paste cleaning
- ESD floor and worktop cleaning