

PLANT LIST

We are a UK-based contract electronics manufacturer (CEM), offering customers a full turnkey manufacturing solution, including prototype, pre-production and medium volumes of PCBs, product build and cable harnessing.



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LCL Electronics has a substantial plant list and an inventory of sophisticated equipment that enables us to provide a contract electronics manufacturing service.

SURFACE MOUNT

All of our placement machines have vision systems for accurately calculating positional errors of the PCB before placement and for component recognition and accurate placement of larger components.

2 x DEK m265 GSX Automatic Screen printers with auto PCB alignment of screen to PCB using fiducial marks.

I-Pulse M2 mounting centre with a placement rate of 18,700 per hour capable of placing 01005, microBGA, BGA, SOP, PLCC, QFP, CSP, connector and odd form components.

I-Pulse M4e mounting centre with a placement rate of 12,500 per hour capable of placing 01005, microBGA, BGA, SOP, PLCC, QFP, CSP, connector and odd form components.

Heller 1707 EXL reflow oven with 6 heat and 1 cooling zones. Suitable for leaded and unleaded components.

3 x JBC surface mount rework stations and Blundell BGA rework station.

INSPECTION EQUIPMENT

Automatic Optical Inspection M/C MV-2BTL capable of detecting incorrect components, missing parts, incorrect polarity and soldering defects i.e. dry joints, shorts and insufficient solder.

ERSA inspection vision system for microBGA and BGA and fine pitch devices with PC download to provide hard copy photographs.

Hunter Z check high magnification inspection station with TV monitor for joint inspection.

2 x Mantis high magnification inspection units.

THROUGH HOLE ASSEMBLY

Universal VCD axial lead sequencer/inserter model 6241 with a maximum insertion rate of 15,000 components per hour. This machine has missing part detection and component verification.

CMS400 wave solder machine set up for lead free soldering.

Zipatec Select 460 selective solder machine. The SELECT 460 can be universally and flexibly used providing both spot soldering by means of the proven single-spot or multi-spot precision soldering nozzles. An integrated handling system provides programme-controlled PCB transport ensuring individual component processing.

2 x Cropmatic lead cutting machines.

Various hand assembly tools and component lead bending equipment.

TEST

Digital Multimeters both battery and mains powered.

Digital oscilloscopes.

Two AVO Model 8 Analogue meters.

Two PAT Testers, One Clare HAL103 HV capable-used for Nemko testing and one standard UK Seaward Europac.

Various benchtop power supplies.

Custom built equipment supplied by our customers.