



## Manufacturing Equipment List

### Screen Printers

- (1) MPM AP20 stencil printer
- (1) DEK 248 semi-automatic flexible stencil printer
- (2) EKRA E5 automatic stencil printer

### Placement Equipment

- (4) Quad 1030 chip shooter
- (1) Quad QSV-1 Plus fine-pitch pick & place
- (1) Quad QSP-2 Plus fine-pitch pick & place
- (1) Quad 4VC fine-pitch pick and place
- (1) Camalot 3000 dispenser
- (2) Dynapace board loader

### Soldering Equipment

- (1) ABW Systems TSC-1008 5-zone convection reflow oven
- (2) Conceptronics 10-zone convection reflow oven
- (1) Exselect automated selective solder machine
- (1) Electrovert Econopak Plus SMT dual-wave machine with IR pre-heat
- (1) Solder fountain
- (1) Slim KIC thermal profile data logger

### Test Equipment

- (2) Biddle AC/DC HI-POT test systems
- (1) GenRad Viper Manufacturer Defect Analyzer
- (A/R) Custom Test fixtures specifically developed to meet customer requirements using LabView software

### Inspection Equipment

- (1) Intelligent Reasoning Systems G4 automated optical inspection
- (1) Nicolet NXR-3800 automated in-line x-ray inspection system
- (1) I Systems SMD-3D measurement & inspection system
- (7) Mantis binocular magnifiers

### Through Hole Equipment

- (1) Contact Systems CS-400E cut & clinch
- (1) 10-station slide line
- (1) Electrovert Electroprep automated PTH part prep machine

### PCB Depanelers

- (1) Automatic V-Groove Separator
- (1) Semi-Automatic Tab Separator

### Conformal Coating

- (1) Select Coat System Model # SCU4

### Specialty Equipment

- (3) Eltron TLP 2742 In-line label printers using Label Matrix software
- (1) Conceptronics Atlantis 1200W stencil cleaner
- (1) QC-CALC data collection
- (1) BP MicroSystems 1200 universal programming device(ICs)
- (1) TESTEQUITY environmental test Chamber
- (1) Brady 300x-Plus barcode printer
- (1) MicroBoards DSR 1200 CD burner
- (2) A.P.E. ChipMaster SMD-1000 hot-air rework stations
- (1) V-TEK tape & reel machine

(A/R) = As required

(#) = Quantity of equipment

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