

# Innovative Circuits, Inc. Equipment List

## Engineering / Tooling:

- Ucamco Integrator 8 Incoming CAD evaluation
- Bacon Traveler Generation Software And Barcode Tracking System
- CAM350 Workstations, Genesis 2000 Workstation
- POLAR Si8000 Impedance Modeling Software
- Zmetrix ST2000 Controlled Impedance Test System
- Mania-Barco SilverWriter 8000 Photoplotter; 16,000 dpi, 0.4 mil line
- Spartanics Automatic Registration Film Punch

## Imaging:

- Orbotech Paragon 8800Hi Laser Direct Imager
- HEPA Filtered Class 10,000 Clean Room
- 2 X Teknek Cleaning Machines
- 2 X DuPont HRL-24 Hot Roll Laminators
- Hollmuller Green Line Thin Core Developer; 1/2 mil resolution
- C. A. Picard Layer Punch

## Lamination:

- Custom 17 Pin and 13 Pin Tooling System's
- TMP High Temperature oil heat/cool vacuum press
- Lauffer Vacuum Lamination Press
- CA Picard Depinning System With Motorized Conveyor's
- Wise ChemStar Chemistry Clean Line

## Drill / Route:

- Hitachi Model ND-15211/2E PCB Modular Drilling Machines (4) w/Vision 160K Spindles
- Hitachi Model ND-15213E PCB Modular Routing Machines (3) w/Vision
- Hitachi NR-4H210E 4 Spindle Router/Driller
- Glenbrook Technologies X-Ray System
- Accuscore Vertical Scoring Machine
- MASS Plane Raze SV-100 Planerizer
- Laser Drilling and Cutting (CO<sub>2</sub>, 50 Watts)
- ESI 5330xi Laser Drilling System (UV, 11 Watts w/pulse repetition)

## Plating:

- (2) Plasma-Etch MK-II Plasma Chambers
- Pola & Massa Precision Deburring Machine
- Technic Electroless Copper line; Rohm and Haas
- Specialized Precise Electrolytic Plating lines (5)
- Hollmuller Green Line Thin Core Etcher
- Hollmuller Green Line Thin Core Resist Stripper
- Hollmuller Tin Strip System with Tsunami Fluid Heads

## Soldermask & Nomenclature:

- Colight 1630 Exposure System
- AT-80 PD Semi Automatic Screen Printer
- 3 X Screen Tables, 3 X Grieve Ovens
- Dalux developer
- MASS VHF-200 Via Plugging machine
- Circuit Automation DP-VDM Vacuum Degassing System
- Orbotech Sprint 120 Inkjet Printer

## Test and Inspection:

- Phenom Pro Electron Microscope
- Orbotech Fusion 20 AOI
- Microcraft EMMA ELX6146 Flying Probe Tester, 250 Volt
- Microcraft EMMA ELH6146 Flying Probe Tester, 250 Volt
- Impex proX2 Measuring Machine
- Optek Coordinate Measuring Machine
- Nikon Microsection Microscope w/ 3MP digital camera and Plato Solder Pot
- Buehler EcoMet 300 Pro Microsection Grinding/Polishing
- 7 X Stereo Microscopes for Inspection
- OXFORD CMI900 XR