Electronic Manufacturing Services

Equipment List:
This document is a list of the major manufacturing equipment used by Symetrics Industries for the production of Circuit Card Assemblies. Symetrics continuously reinvests in new equipment, tools, and methods to enhance the ability to provide high quality products, on time and on budget.

Inspection:
- Faro
- CMM System
- Oxford X-Strata980
- Bench Top XRF System
- Glenbrook Jewell Box 70T
- 2 D X-Ray System
- ERSA Scope
- Fiber Optic Inspection Scope
- YESTech YTV1000
- Automated Optical Inspection
- Vision Engineering Mantis
- Microscopes
- Alphametals Ionograph 500M
- Board Cleanliness Tester
- Micro Vu Excel 502
- Optical Inspection System
- Keyence VHX-500F
- Digital Inspection Scope
- KOH Young KY 3030 VAL
- SPI Solder Paste Inspection

Manufacturing:
- GPD Model CF8
- Axial Lead Former (2)
- GPD Model CF9
- Radial Lead Former
- Hepco Model 1500-1
- Radial Lead Cutting Machine
- Hepco Model T3700-2
- Lead Cutter-Former
- Hepco Model 7800
- Dip Lead Cutting Machine (2)
- Hepco Model 7900-3LF
- Dip Lead Forming Machine
- Microtek
- SMT Lead Forming System
- Schleuniger PS9500 RS
- Coax and Discrete Wire Processor
- Artos CS29
- Linear Feed Wire Processor
- Cam/a lot 1818
- Epoxy glue dispenser
- Contact Systems CS-400E
- Component Locator (2)
- Universal Sequencer
- Automated Axial Sequencer
- Universal VCD
- Automated Axial Inserter
- Dr. Storage X2E-1200-6
- Low moisture Dry box
- Ekra X5
- Automatic stencil printer (2)
- Photo Sonic PS-2
- Stencil Cleaner
- Universal HSP 4791
- High Speed Placement System
- Universal HSP 4796
- High Speed Placement System
- Universal GSM
- Pick and Place w/PTF tray feeder (2)
Equipment List: (Cont)

Manufacturing: (Cont)

- Heller 1800EXL: Forced Air Convection Reflow Oven
- Heller 1809 MK III: Forced Air Convection Reflow Oven
- Technical Devices Nu/Era: Wave Solder Machine
- EBSO SPA 400: Nitrogen Selective Solder Machine
- Westek Triton I: Aqueous Cleaning System
- AirVac PCBRM 12: Solder Flow Rework Station
- ERSA IR550: BGA IR Rework Station
- Metcal STSS-002E: Soldering Stations
- BGA 3000/3500: Ersa BGA Fine-Pitch Rework Station
- Lunaire oven CE228: Baking and curing ovens (4)
- CenCorp 2100: PCB Router
- Cab Maestro 2M: PCB Separator
- CCRCo CCR2000: Conformal Coat Removal System
- Epicor Vantage: ERP system
- Aegis CircuitCam: Manufacturing Productivity Software

Test & ESS:

In addition to the normal array of digital multi-meters, signal generators, analog oscilloscopes, digital oscilloscopes, power supplies, frequency counters, spectrum analyzers, etc, Symetrics has the following test equipment:

- SPEA 4060: Flying Probe with SoftTouch
- GenRad 2286: In-Circuit Tester
- Unholtz / Dickie, U-D 206: Vibration System
- MB Dynamics, C10E Shaker: Vibration System
- MB Dynamics, Model M46 Power Amp: Vibration System
- Ling, DCS 7000 Vibe system: Vibration System
- Ling, DMA6HB/612VH-4 Vibe System: Vibration System
- Russell Model REV-56-25-25AL: Temp/Humidity/Chamber
- Standard Environmental System RK/10C: Temp/Humidity Chamber
- Thermotron RA-32-CHV-25-25-AC: Temperature Chamber
- Thermotron F-42-CHV-25-25: Temperature Chamber
- Thermotron FA-4-CH-1-1: Altitude Chamber