



## Custom Assembly, LLC.

### Low-to-Mid-Volume Manufacturing:

Custom Assembly's "niche" is to provide manufacturing services to customers with low to mid-volume assembly requirements in Medical, Industrial, Commercial, and Telecommunications markets. Our flexible business model integrates adaptive manufacturing equipment and processes with a responsive supply chain to provide our customers with service and efficiency in low to mid-size volumes.

### Program Management:

- **Project Team-** Buyer/Planner, Manufacturing Engineer, Business Development Manager, and Test Engineer.
- **Reporting-** Quality, Delivery, Life Cycle, and Shipment Logs.
- **Quarterly and Weekly Reviews-** Delivery, Quality PPM Level, Product Road Maps, and Correct Action Reporting.

### Printed Circuit Board Assembly:

- **Screen Print-** Multiple Screen Printers with Standard Component, Micro-Component, Ultra-Fine Pitch, and BGA Component Capability.
- **SMT Placement-** Multiple SMT Lines Capable of Standard, Micro, Ultra-Fine Pitch, BGA, and Odd-Form Component Placement.
- **SMT Reflow-** Multiple Solder Reflow Ovens Capable of Reflowing Leaded and Lead-Free (ROHS), BGA, Odd-Form, Fine-Pitch, Standard, and Micro-Components.
- **Double-Sided Component Reflow-** Utilizing Glue Attach, Or Temperature Specific Solder.
- **Wave Solder-** Multiple Wave Solder Ovens. Leaded and Lead-Free (ROHS) and Nitrogen Atmosphere Capability.
- **Through-Hole Assembly-** Automated and Manual Assembly Capabilities Include: Radial, Axial, and Odd-Form Components.

### Turnkey Services:

- **Materials Services-** Bill-of-Material Management, End-of-Life Surveillance, Build-to-Order / Build-to-Forecast, and Supply Chain Management and Quality Control.
- **Manufacturing Services-** Product Lifecycle Management, Cost Optimization, and ECO / ECN Control.



## Contract Manufacturing Solutions

### Prototypes:

At Custom Assembly we fully support New Product Introductions (NPI), and thoroughly understand the need for quick-turn prototypes. While specializing in high-mix, the most important parts of our prototyping process are flexible equipment, sophisticated software tools, and our staff of qualified people. Our goal is to meet short delivery times and make the prototype process fast and efficient with unsurpassed quality.

### Box Builds Manufacturing Capabilities Encompass:

- Dedicated Manufacturing Area.
- Dedicated Manufacturing Engineering Expertise.
- DFM and DFT Support to Design Review.

### Testing:

**DFM Review Includes:** Fiducials, PCB Plating, Keep-Out Areas, Component Orientation, Spacing, Land Patterns, and Location, Tool Holes, PCB Panelization, and PCB Legend.

**DFT Review Includes:** In-Circuit Test Review, Test Mode Availability, Test Pads, Overclamp Requirements, Milling Requirements, Netlist, Functional Test Review, Test Specifications, and Fixture Requirements.

**In-Circuit and Functional:** Inspecting to IPC 610, AOI (Automated Optical Inspection), ICT (In Circuit Test), and Functional Test are integral parts of our manufacturing process.