



Custom CNC-built mechanical components designed by Orchid Technologies reduces packaging costs while enhancing overall product reliability.

*Executed from inception to prototypes in hand in seven weeks, OTEC's electromechanical design process is fast, accurate, and a life saver.*

*- Director of Engineering*

### **Custom Electromechanical Design**

Complex electronic systems often require artful mechanical enclosure design. Circuit board mechanical modeling combined with enclosure modeling results in precise electromechanical systems. Elegant mechanical engineering simplifies final assembly. Clever use of spatial perspectives reduces cabling costs, simplifies system interconnectivity, enhances heat removal and ensures environmental seals.

### **Electronic Circuit Board Mechanical Modeling**

The generation of precise electronic circuit board mechanical models sets OTEC apart. CAD generated electronic circuit board models greatly enhances mechanical enclosure design. Miniature enclosures and volume constrained designs greatly benefit from precision modeling during the design process.

### **Full Enclosure Mechanical Design**

As lead designer or simply assisting your mechanical design process, OTEC's ability to generate accurate mechanical models results in practical, cost-saving mechanical designs. OTEC's experience with electronics packaging is unmatched in the industry.

### **Electronics and Mechanics Combined**

Electronic design has constraints. Mechanical design has constraints too. At OTEC, we combine both electronic and mechanical design disciplines together; working the various trade-offs simultaneously. This often results in a harmonious, efficient, low cost design which could never have been achieved as two independent design tasks.

### **Orchid Technologies: Mechanical Design**

The development of custom electronic products for our OEM clients is OTEC's entire business. The design of custom electromechanical enclosures with rapid design cycles, demanding technical requirements, and unforgiving schedules sets us apart. Call Orchid Technologies today!

