

STRENGTHS & ADVANTAGES



- US based production (Milford, MA)
- 47+ Years in business
- Small business classified









STRENGTHS & ADVANTAGES

ROBERT ASHMAN

National Sales Manager - Precision Products

"PEI is proud of its capabilities, its technologies and team. We continually add new resources as we grow. Please don't hesitate to reach out to see if we can support your specific requirements! The following information outlines our current strengths and advantages..."

PRODUCTS >

TYPICALLY SUPPORTED

- Microelectronic Lids
- Stepped, Flat & Window
- With Hydrogen/Moisture
 Getters & RF Absorbers
- Carrier Plates (Heat Spreaders) •
- EMI/RF Shielding
- · Heating elements
- Shims
- Micro-turbine
 blades/components
- Lead Frames

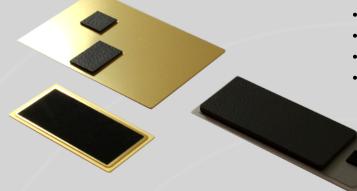
- Weld/Ring Frames
- Mesh Screens
- Micro-fluidic plates
- Heat Exchanger plates
- Washers
- Electrical
 Contacts, Springs, Jumpers
- Solder Masks
- Encoder Disks
- Microwave Stators
- Metal Fixturing jigs and carriers

CAPABILITIES >

FXPI ORING THE CAPTIVE PROCESS

- Chemical Etching of most sheet metals (Aluminum to Zinc)
- Specialize in Kovar, Stainless Steel, Brass, Copper, Aluminum & Titanium
- Burr-free process with "drop-out" etch capabilities for tabless designs as well
- Large scale etching capabilities. Sizes up to...
 - 28" [711.2MM] x 58" [1473.2MM]
 - 18" [457.2MM] X 120" [3048.0MM]
- Metal Thicknesses up to .125" [3.18MM]
- Automatic regeneration of our etch chemistries
 - Eliminates any loss in active potency
 - Ensures consistent etch results from the first to last piece

- Clean room to control FOD at critical image transfer process
- Photo-artwork fabrication
- Screen printing capabilities (part marking)
- Separate Microelectronic Lid cell to ensure highest quality
- Electroless Plating (for Kovar lids only!)
- Eliminates cross-contaminants from other materials
- Ensures highest yields at critical lid closure process
- Hydrogen/Moisture Getter and RF Absorber attachment capabilities
 - Partners include Alpha Materials (Cookson), SAES & Vacuum Energy
 - PEI can epoxy attach or screen print where applicable
- Product forming
- Product passivation
- Product assembly services
- Full Inspection capabilities (AS9102 First Article
 Inspection Reporting when required)



ADDITIONAL SERVICES >



- Plating (All types...Au, Sn, Ni, etc.)
- Anodizing
- · Heat Treating
- Coating (Powder, Spray, Epoxy, etc.)
- Forming (Complex geometries)
- Post Machining (Countersinking, Tapping and tighter tolerance requirements)
- Part Marking (Laser, Bar & QR Coding, Serializing, etc.)
- Packaging (Tape & Reel, Waffle, Medical, etc.)
- Soldering & Brazing
- Testing (Salt & Moisture, Solderability, Thermal Shock, etc.)



CAPACITIES >

PREPARED TO SERVE

- Currently operating at approximately 75% capacity of our first shift
- · Adding new equipment regularly
 - Maintain state of the art
 - Ensure open capacity







- Most deliveries can be achieved in 4 weeks or less
- Opportunities which require outside services may effect this
- Quick turn prototyping as needed (2 weeks or less!) for a slight premium
- On-time performance metrics of 98% or better
- You can't achieve this metric without equal quality!



EQUIPMENT >

MATERIALS >

DFAR COMPLIANT ONLY!

Stainless Steel

Aluminum

Molybdenum

Kovar (ASTM F-15 Alloy)

Phosphor Bronze (510)

Cold Rolled Steel

Titanium

BeCu

Tungsten

Copper (& Alloys of)

Silver (& Alloys of)

Inconel/Monel

Brass

Nickel (& Alloys of)

STATE OF THE ART FACILITY

- (5) Double Chamber 30" Ferric Chloride Etchers
- (1) 4 Chamber Ti Constructed Cupric Chloride Etcher
- (2) Double Chamber Cupric Chloride Etchers
- (2) Ferric Nitrate Etchers for Molybdenum & Silver
- (2) Double Chamber Titanium etchers
- (5) UV Imaging Machines
- Electroless Plating line (Dedicated for microelectronic lids)
- Photo laser plotter for artwork creation





"Looking forward to supporting your business!"

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National Sales Manager - Precision Products