

Precision Contract Manufacturing Services



Electro-Mechanical Assemblies



Electronic Sub-Assemblies



Low-to-Medium Volume



Full Engineering Capabilities



American Magnetics, Inc.

Overview

American Magnetics, Inc. (AMI) has been an industry leader for over thirty years in the design and supply of superconducting magnet systems, cryogenic liquid level instrumentation, and electro-mechanical assemblies. AMI has supplied high quality technical products to companies as

diverse as: NASA, Air Products & Chemicals, Argonne National Laboratory, General Electric, General Atomics, IBM, Lockheed-Martin, Lucent Technologies, and Westinghouse. We have gained a wealth of knowledge and experience in producing high quality, high-value electro-mechanical assemblies. AMI now specializes in complete design-to-manufacture projects geared towards low-to-medium volume, high precision contract services.



AMI offers complete turnkey assembly services, including material procurement, process definition, printed circuit board and mechanical assembly, and final test. We have the ability to assemble and test a product from conception to release.

Design

The latest CAD-ware is used for schematic capture and PCB layout. Protel is the preferred CAD tool, but tools, such as Tango and OrCAD can also be used.

AMI's shipping team can insure that your product arrives at the right place, domestic or export, on time. To ease invoicing, we can offer you the option of electronic or conventional methods.

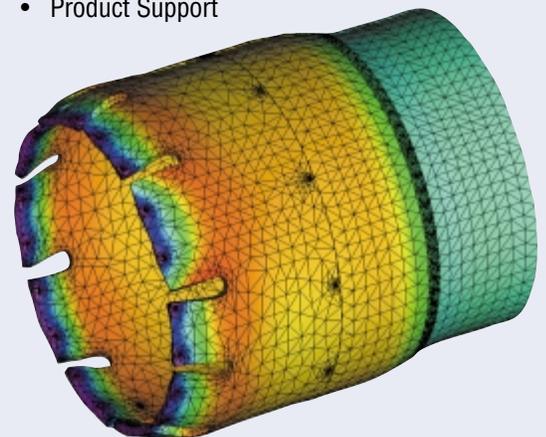
AMI also employs the latest in solid modeling software, including the use of finite element analysis (FEA). Mechanical design is accomplished with Solid Works 3-D modeling software. AutoCAD can be used if required.

Examples of our Engineering capabilities:

- Manufacturability Design Optimization
- Production Engineering
- Quality Engineering
- Test Engineering
- Product Support

Our design engineers work closely with you to fully understand the features, functionality, and stringent requirements your product must meet. From this, prototype units can be designed and quoted, prior to any manufacturing.

Design capabilities include single or multi-layer through-hole boards, multi board interconnections, electronic or mechanical subassemblies, and complete electro-mechanical products.



Manufacturing

Our flexible manufacturing lines allow us to build a wide variety of products with quick changeovers. Having the latest in thru-hole board assembly equipment, including automated soldering, allows us to perform small quantity board lots quickly and cost effectively. Performing high quality TIG welding on copper, aluminum, stainless steel, and various exotic metals is routine.

We have extensive experience machining and assembling phenolic fiberglass resin, Mylar, and ceramic parts. We specialize in epoxy applications, and have developed a proven process for converting low cost, non-sealed electrical connectors into sealed connectors.



Our skilled craftsmen have access to equipment ranging from manual lathes and mills, for custom work, to CNC Machine and Wire EDM Centers for complex units.

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Specific examples of our Manufacturing capabilities include:

- Hermetic-seal connectors
- Vacuum tight feedthroughs
- PCB Assembly
- PCB to Chassis Assembly
- Silver dip soldering / brazing
- Racked Electronic Systems
- Accessory Kits



Quality Assurance

AMI offers extensive Quality Control and testing of all products. Whether you need a Certificate of Compliance, functional testing, vacuum leak testing, material certificates, NACE testing, wired assembly resistance measurement, etc., AMI can meet your requirements. Long term repair and engineering support services are additional benefits for most manufactured items.



Why consider using a Contract Manufacturer?

Flexibility

Outsourcing only 20% of your production needs, can reduce your workload by up to 80%.

Financial

Integrating a series of customized functions into one complete package, our engineering, production, quality, test, and repair services will save you time and money. Improve your cash flow predictability while reducing the expenses involved in working with numerous small suppliers.

Materials Management

Focus your purchasing resources on key materials issues, cost saving efforts, and increasing inventory turns. Reduces the time used in expediting and procuring hard-to-find parts.

Engineering

Improve time to market for new products.

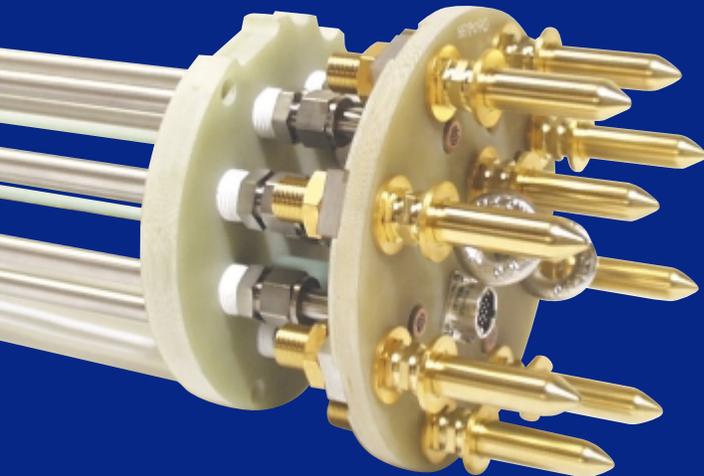


Manufacturing

Greatly reduce floor space required for inventory and production. Decrease the requirement for Production Engineering.

General Management

Focus company resources on key areas of technological strength and differentiation.



A successful outsourcing program is a mutual team effort between us. AMI is a business that has built its reputation on the values of trust and integrity. This culture has benefited our customers by objectively assessing their requirements with our capabilities. If there is a good match then we look forward to serving you for many years. Call AMI today to find out more about this exciting and innovative program.



All AMI Products are made with pride in the U. S. A.



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