Family Owned and Operated for Over 40 Years

1973
Amar and Ani Kapur establish American Industrial & Medical Products, Inc. (AIM) out of a third-floor apartment in Worcester, MA.

1980s
AIM, Inc. becomes Aimtek, Inc. and expands to supply the aerospace, semiconductor, power generation, shipbuilding and defense industries.

2000
Aimtek acquires Bay State Surface Technologies, a leading manufacturer of plasma spray equipment and materials, from a former division of Textrol.

2003
Aimtek acquires Atech Turbo Components, an FAA and AS9100 certified overhaul and repair facility for Pratt & Whitney Canada hot section components.

Today
Aimtek operates out of a 20,000 square foot facility in Auburn, MA, fully equipped with state-of-the-art welding and brazing alloy processing capabilities, analytical testing, and thermal spray equipment manufacturing. From humble beginnings, Aimtek has grown to become a global value-added supplier and Award-Winning Small Business of the Year.

Value Added Services
- Vendor Managed Inventory (VMI) - Aimtek is an authorized provider of Compuware inventory solutions
- Same Day Shipment of Stock Items
- Large Computerized Inventory
- Quality Products at Competitive Prices
- Qualified Engineers for Technical Advice
- EDI Capable
- Export Capabilities
- Certified MBE
- Technical/Scientific data
- Inventory Management
- Total Cost Reduction Programs

Quality & Service
With Zero quality escapes and an ODT of 98%, Aimtek maintains the highest standards for quality and service in the industry. Our phones will be always answered by a friendly team member, and our experienced and knowledgeable staff will proactively monitor your order until completion.

We understand that a small request can make a big difference.

All incoming raw materials are 100% verified with RIF for compliance to specifications.

Parameter Development
Point of Use/Consignment
Precious Metals Refining/Reclamation
Technical Assistance
Educational Programs
Custom Packaging and Labeling
Application Support
Laboratory Testing
Engineering and Design
Process Optimization

Custom Engineered Products, Prototypes, Short Runs, Fabrication and Machining to Customer Specifications
Aimtek manufactures a complete line of high performance welding wire for a variety of industries. Standard diameters range from 0.010" (0.25mm) to 0.125" (3.2mm), but other custom-drawn sizes are available.

**Straightened and Cut Wire**

Wire can be cut to virtually any length and tolerance. All wire is cleaned using ultrasonic, solvent, centerless grinding & other mechanically-based methods. Surface condition and cleanliness meet the strictest aerospace and industry standards. Individual rods are 100% alloy-type tested using Acronag and other customer-approved alloy verification methods.

**Flag Tag Identification**

Individual rods can be flag tagged for effective identification. Flag tag labels are available in virtually any color scheme and can be custom printed to include heat numbers, purchase order, and other pertinent customer information. Pressure sensitive vinyl labels are used for durability and reliability.

**Color Coding**

Color coding of individual rods can be performed using any customer-specified scheme. Color coding is performed using the highest quality methods and materials, and all color coded wire goes through a triple cleaning process prior to final packaging.

**Precision Spooled Wire**

Alloys are available on precision level layer wound spools and reels ranging from 4-12" (100-300mm) in diameter. Custom sizes are also available. Typical spool materials include plastic, fiberboard, and metal.

**Test Coupons**

Aimtek supplies test coupons in many forms for welding and thermal spray process qualification. Test pieces are manufactured to tight tolerances from bar, sheet, and plate using a variety of fabrication methods, including shearing, laser cutting, and precision machining. All test coupons are deburred and cleaned. Individual marking options include ink stamp, engraving, dot peen, or laser.

**Custom Packaging & Identification**

All material is packaged to customer specifications and unit sizes. Packaging solutions include heavy thickness polyethylene bags, vapor barrier materials, desiccant, and high strength corrugated boxes. Argon purge and vacuum packaging is available for titanium, high purity, and corrosion-prone materials. All labeling is performed to customer specifications and may include bar coding, color coding, and RFID tags.
Brazing Alloys

Aimtek manufactures a complete line of precious and non-precious metal brazing alloys in a variety of forms and custom configurations. Aimtek also supplies brazing aids and brazing support equipment.

Aimtek sells and services resistance tack welding equipment for brazing and welding set-up operations. Common operations include ball tack welding and honeycomb tack welding prior to brazing details together. A variety of hand tools, welding heads, and power supplies are available.
Bay State Surface Technologies, a subsidiary of Aimtek, manufactures a complete line of affordable thermal spray equipment and materials. Typical applications include dimensional restoration, thermal barrier protection, and wear resistance. Our corrosion protection equipment provides the lowest operating costs in the thermal spray industry.

**Powder Feeders**
Our powder delivery systems are designed to deliver uniform, tight tolerance coatings consistently and efficiently with precision, reliability, and repeatability. Low feed rate models for laser cladding, large capacity feeders for high volume production, and scale-based, closed loop options are also available.

**Plasma**
Bay State’s plasma guns and control modules apply superior ceramic, metal, and refractory metal coatings at a fraction of the cost of our competitors. Flexible configurations, user-friendly controls, economically priced consumables, small footprints, and energy efficient designs are the key characteristics of Bay State plasma spray equipment. Bay State also manufactures the industry’s only portable plasma spray coating system.

**Twin Wire Arc**
Bay State’s twin wire arc spray systems bring flexibility, lower maintenance costs and reduced operator fatigue to the arc spray process. Any material that is available in wire form can be sprayed using the twin wire arc spray process.

**Chillers & Heat Exchangers**
Bay State’s durable chillers and heat exchangers are engineered for longevity and efficiency. Both feature easy-to-use control systems.

**Flame Spray**
Bay State’s portable flame spray systems are perfect for field spraying and repair applications. Metals, Carbides, Ceramics, and even Polymers can be sprayed with Bay State’s flame spray guns.

**Wires & Powders**
Bay State carries an extensive selection of ceramic powders, pure metals, alloys, carbides, cored wires and polymers.

**Turn-Key Solutions**
We continue to build upon our successful history with unique, yet cost-effective designs coupled with a commitment to safety in an effort to satisfy the most demanding customer automation and integration requirements.
Pre-Sintered Braze Preforms

Composed of a blend of desired superalloy and brazing filler metals, pre-sintered preforms (PSPs) are ready-to-use pieces of brazing material engineered to customer specifications for specific repairs. Inside gas turbine engines, PSPs can be used to repair vanes, cracks, and areas of excessive wear.

- reduce repair time and MRO costs due to tailored, pre-made shapes
- customizable for specific applications
- available in flat plates, preforms, 3D bushings, paste, and brushable paint
- convenient for repeated repairs on localized areas of high wear

Aimtek Quality and Service