

AIMTEK

Quality and Service

Joining and Coating Solutions for Critical Applications

- ISO9001/AS9100 Registered Quality System
- United Technologies Supplier Gold
- Two-Time SBA Small Business Subcontractor of the Year

All major OEM Quality Approvals

Pratt & Whitney LCS	DFARS
General Electric	US Navy Level I
Honeywell	United Technologies
Rolls Royce	MIL-I-45208A

Global Headquarters

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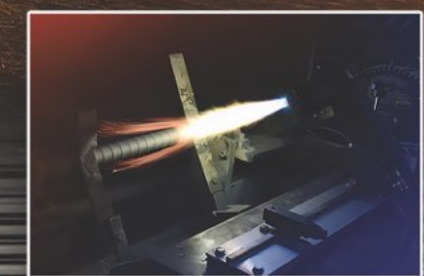
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visit aimtek.com to view our Global distribution and Representation Network



Providing high quality welding, brazing, and thermal spray materials & equipment for over 40 years

Family Owned and Operated for Over 40 Years

Quality & Service



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 Textron.

2003

Aimtek acquires Atech Turbine Components, an FAA and EASA 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.



With Zero quality escapes and an OTD 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 XRF for compliance to specifications

Value Added Services

- Vendor Managed Inventory (VMI) - Aimtek is an authorized provider of Cribmaster 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



- 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

Welding Alloys

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 Acromag 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, dessicant, 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.

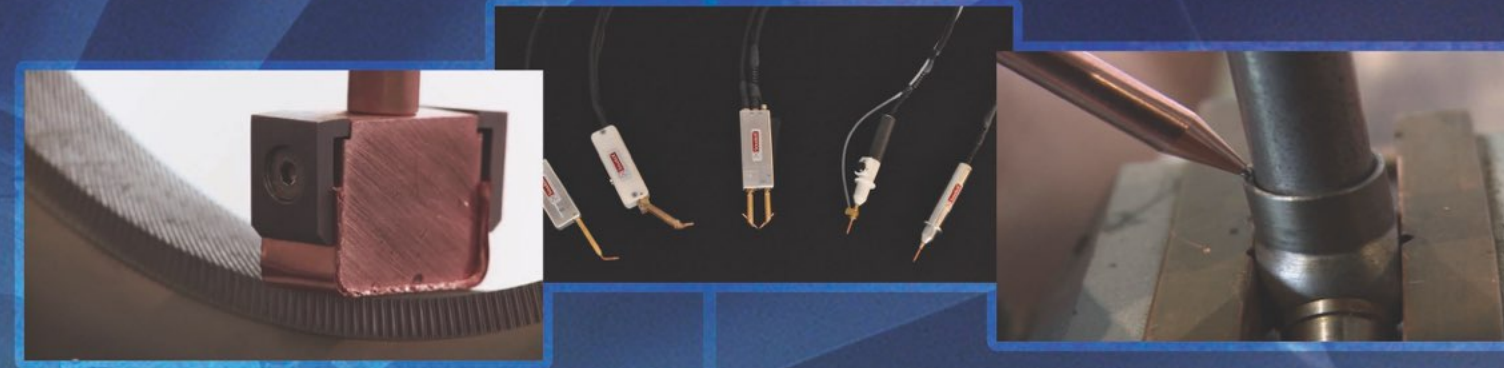


Brazing Alloys

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.



Resistance Microwelding



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.

Cut Length & Spooled Wire

Braze Powders & Pastes

Flux & Brazing Aids

Rings & Preforms

Braze Foil & Tape

Custom Labeling, Packaging, & Identification



- virtually any length and tolerance
- cleaned using ultrasonic, solvent, and mechanical methods
- spools available in a variety of sizes and materials

- powders are inert gas atomized and screened to specific particle size distributions
- binders are engineered for specific brazing processes

Aimtek stocks all major brands of flux, stop-off compounds, and chemical aids

- manufactured to customer drawings and specifications
- our engineering department can help design a preform to improve productivity and optimize brazing filler metal consumption

- foils are produced by precision rolling and melt-spun processes and slit to precision widths
- tapes are manufactured using the highest quality binders and adhesives

- customizable flag tags, color coding, bar coding, and RFID
- packaging materials include heavy thickness polyethylene, vapor-barrier materials and padded cushioning

Thermal Spray Equipment & Materials

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-base, 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.

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.

Chillers & Heat Exchangers

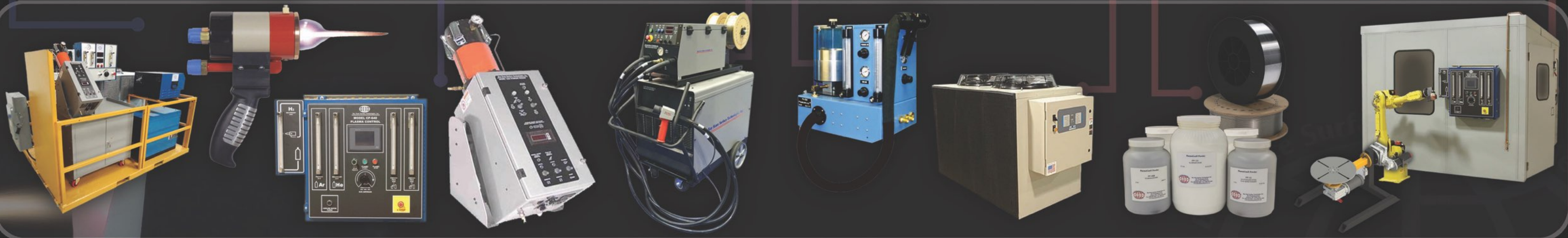
Bay State's durable chillers and heat exchangers are engineered for longevity and efficiency. Both feature easy-to-use control systems.

Wires & Powders

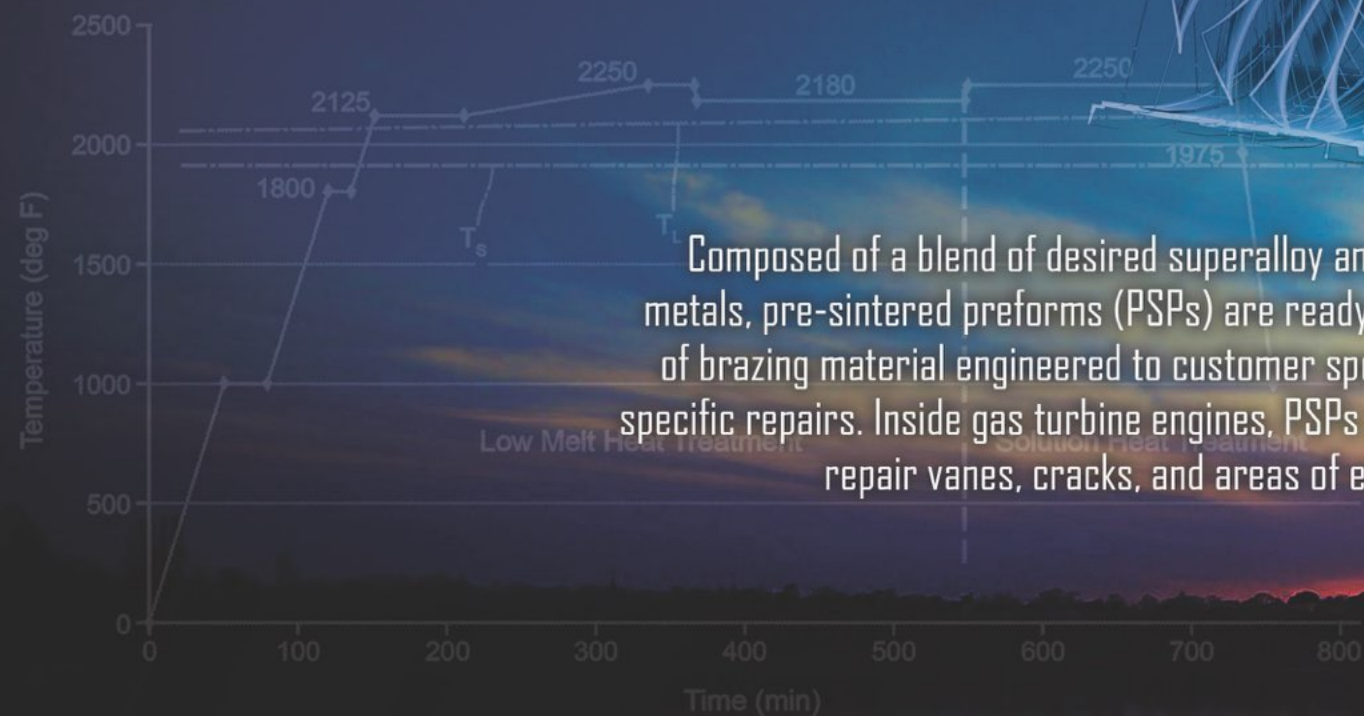
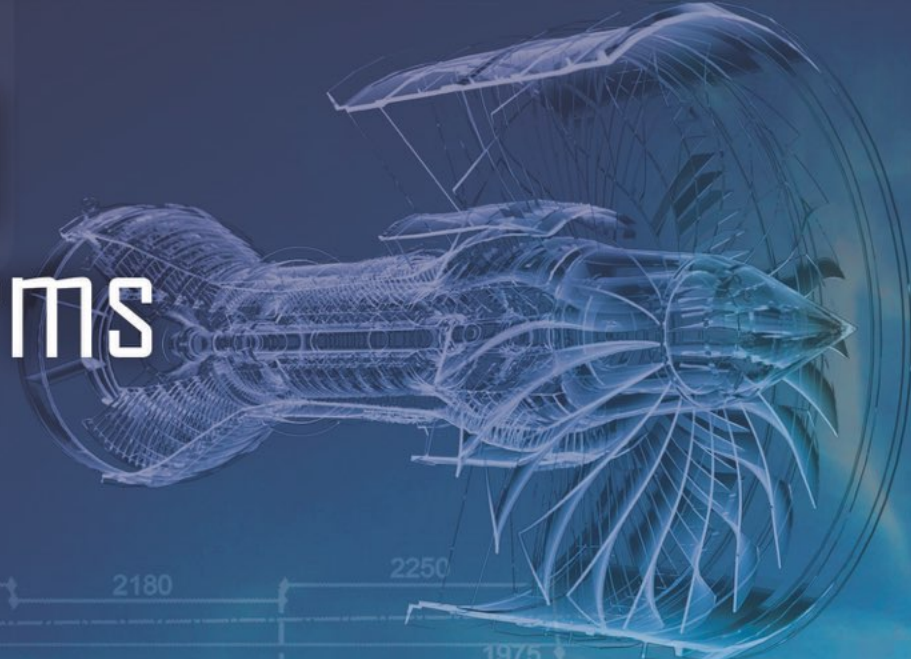
Bay State carries an extensive selection of ceramic powders, pure metals, alloys, carbides, cored wires and polymers.

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 MRD 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

