

Bodycote
THERMAL PROCESSING

Thermal Processing - Fremont



THERMAL PROCESSING
HOT ISOSTATIC PRESSING
MATERIALS TESTING
METALLURGICAL COATINGS

Bodycote

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The Fremont facility has established Bodycote Thermal Processing as a premier source of commercial brazing throughout North America's west coast. Since its inception, Fremont has provided customers with thermal process options specializing in vacuum and hydrogen brazing. The on-going development of custom processes for a variety of similar and dissimilar metallurgical bonding requirements has positioned Bodycote Fremont as a market leader.

Bodycote customers are realizing the advantages of partnering with global market leaders like Bodycote International. Access to technological expertise in traditional heat treatment, brazing, hot isostatic pressing, materials coatings and materials testing, allows timely resolution to most challenging metallurgical issues. Our international family of companies has fostered unprecedented synergy in metallurgical processing and testing technology. As a result, Bodycote International is positioned as the key market supplier to the world's metallurgical requirements.

The Fremont facility continues the Bodycote International tradition of delighting customers through quality, on-time services to customer expectations. Quality accreditations and ratings, including ISO 9002, ensure customers of our commitment, thus establishing Bodycote Fremont as their choice for commercial thermal processing.



With eight hydrogen Bell furnaces, Fremont has the versatility to provide a wide range of services with quick turn delivery.



A view of one of Fremont's high temperature vacuum furnaces shown with the cryogenic vacuum pump and Honewell controls and recorders.

Processing Capabilities

Fremont offers a wide selection of thermal process capabilities. Our broad range of services from product design assistance, fixturing design and the ability to combine our efforts with the best job shops in the Bay area offer our customers the advantage of a turn-key operation. Our quality ratings ensure our customers that the highest quality standards will be maintained for their product, in addition to ensuring on-time deliveries.

Our capabilities include:

- Metallurgical Bonding of Similar & Dissimilar Materials
- High Vacuum Furnace Brazing
- Hydrogen Furnace Brazing
- Aluminum Vacuum Brazing
- Turn-Key Manufacturing
- High Vacuum Bake-Out
- High Vacuum Bright Annealing
- Mass Spectrometer Leak Detection
- Torch Brazing

Process engineers monitor the Honeywell controls for our hydrogen furnaces that give status and charts for each braze run.



Large capacity, high temp, high vacuum furnaces produce ultra-clean vacuum due to the cryogenic pumping system that prevents possible oil contamination from typical diffusion pumps.



A class 10,000 clean room and lab demonstrates Fremont's capability to obtain mass spectrometer helium leak checks and also to assemble customers' turn-key requirements.



Our Hydrogen Bell furnace area details Fremont's commitment to high throughput to meet customers' requirements.

Vacuum and Hydrogen Brazing

Fremont specializes in brazing similar and dissimilar materials, both in vacuum and hydrogen. With more than 100 years of combined experience, we are able to optimize cycle times and atmospheres to produce the highest quality brazed assemblies. We produce standard and custom cycles each week, enabling the most demanding production schedules to be achieved. Our clients come from the semiconductor equipment, medical, aerospace, microwave, research science and telecommunications industries.

Aluminum Vacuum Brazing

Fremont operates two state-of-the-art Abar Ipsen vacuum aluminum brazing furnaces with eight temperature control zones to achieve temperature uniformity within ± 5 degrees F., all monitored by Honeywell controllers and recorders.

Vacuum Heat Treatment

Heat cycles are customized to minimize distortion and growth as well as to produce a "bright" appearance to parts.

Quality Assurance

Detailed systems of equipment calibration, record keeping and documentation have earned us the process approvals of semi-conductor and telecommunications customers. Bodycote's customized thermal processing software enables customer specific processing instructions to be stored and updated in accordance with customer specifications and processing history.

Accreditations & Selected Corporate Approvals

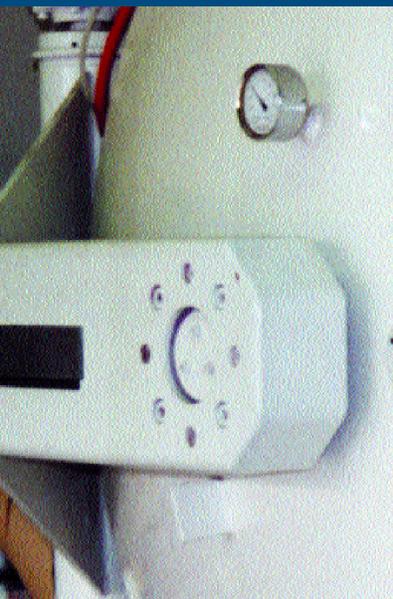
ISO 9002

QS 9000

FAA Repair H3HR913J

Specific Customer Approvals Available Upon Request

9/00



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