

O&W HEAT TREAT, INC.

SPECIALISTS IN AEROSPACE METALLURGICAL PROCESSES • ATMOSPHERE BRAZING & HEAT TREATING

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Capability

Processes:

Heat Treating

- Bright hardening & tempering
- Solution treating & precipitation hardening
- Age hardening
- Dry and wet hydrogen annealing
- Annealing
- Stress relieving
- Coating diffusion
- Cold stabilization to -120 °F
- Cryo treating to -320 °F

Joining

- Vacuum Brazing
- Atmosphere Brazing (Hydrogen, Argon)
- Induction Brazing (Conventional and Argon)
- Torch Brazing
- Soldering
- Capacitive Discharge Tack Welding

Materials:

- 300 Series Stainless Steels
- 400 Series Stainless Steels
- PH Stainless and Maraging Steels
- Aluminum Alloys
- Ni Alloys
- Titanium Alloys
- Copper and Beryllium Copper Alloys
- Air Hardening Tool Steels, Including A, D, M, S, & T series

NIST Traceable Testing:

- Mechanical Testing
- Load Testing
- Shear Testing
- Torque Testing
- Rockwell Hardness Testing
- Superficial Rockwell Testing
- Knoop Microhardness Testing
- Vickers (DPH) Microhardness Testing
- Metallographic Testing
- Routine structure, alpha case, nitride case, eutectic melting, alloy depletion, IGO/IGA, grain size, braze joint alloying and undercutting
- Destructive braze joint evaluation
- Degreed Metallurgical Engineer on staff
- Miscellaneous Testing
- Nondestructive Helium Mass Spectrometer
- Leak Checking and Pressure Checking
- Residual Flux Testing

Industries Served:

- Aerospace
- Medical
- Nuclear
- Automotive
- Petroleum
- Machine Tool
- Food Products
- Industrial Lasers
- Plastics Processing
- Computer Hardware
- Custom & Collectable Firearms Processing
- Decorative, Collectable and Military Knives